

SECTION 2.0
TABLES

**Table 2.1. Data Considered for the Baseline Risk Assessments - All Sites
Volume III - Baseline Risk Assessment, Basewide RI/FS
Fort Ord, California**

| Site | Medium | Area | Number of Samples | Sample Date | Analyses | | | |
|----------|-------------|------------------------|-------------------|--|-----------------------------------|------------|----------------------------------|--------------------|
| 2 | Soil | Upper 180-Foot Aquifer | 6 | Dec-91 | VOCs, SOCs, pestic./PCBs, metals, | | | |
| | | | 11 | Mar/Apr 92 | VOCs, metals | | | |
| | | | 4 | Sep-93 | metals, Cr VI | | | |
| | | | 5 | May-94 | pestic./PCBs, metals | | | |
| | Groundwater | | 7 | Aug-93 | VOCs, metals | | | |
| | | | 4 | Dec-93 | SOCs | | | |
| | | | 10 | Jan-94 | VOCs, metals | | | |
| | | | 10 | Feb-94 | VOCs, metals | | | |
| | | | 3 | Soil | Area 1 | 10 | Nov/Dec-93 | metals, Cr VI |
| | | | | | Area 2 | 10 | Nov/Dec-93 | metals, Cr VI |
| Leachate | Area 2 | 4 | | Nov/Dec-93 | metals | | | |
| | | 4 | | Nov/Dec-93 | metals | | | |
| | | | | | | | | |
| 12 | Soil | Lower Meadow | 18 | Jan-92 | VOCs, SOCs, metals | | | |
| | | | 1 | Oct-93 | VOCs, metals, Cr VI | | | |
| | | | 5 | Oct-93 | VOCs, SOCs, pestic./PCBs, metals | | | |
| | | | 30 | Feb-94 | VOCs, SOCs, metals | | | |
| | | | Soil | DOL Automotive Yard and Cannibalization Yard | 39 | Dec-91 | VOCs, metals | |
| | | | | | 3 | Dec-91 | VOCs, metals | |
| | | | | | 6 | Dec-92 | VOCs, metals | |
| | | | | | 3 | Apr-92 | VOCs, metals | |
| | | | | | 20 | Sep/Oct 93 | VOCs, metals | |
| | | | | | 4 | Oct-93 | VOCs, metals, Cr VI | |
| | 5 | Nov-93 | | | VOCs, SOCs, metals | | | |
| | 1 | Nov-93 | | | VOCs, SOCs | | | |
| | 16 | Dec-93 | | | VOCs, SOCs, metals | | | |
| | 10 | Mar-94 | | | VOCs, SOCs, metals, Cr VI | | | |
| | Groundwater | Upper 180-Foot Aquifer | 4 | May-94 | pestic./PCBs, PAHs, metals | | | |
| | | | 6 | Aug-93 | VOCs, metals | | | |
| | | | 1 | Dec-93 | metals | | | |
| | | | 9 | Jan-94 | VOCs, metals | | | |
| | | | 10 | Feb-94 | VOCs, metals | | | |
| | | | 16 | Soil | DOL Maintenance Yard | 21 | Jan-92 | metals, VOCs, BTEX |
| 4 | | | | | | Aug-93 | SOCs | |
| 5 | | | | | | Oct-93 | SOCs | |
| 3 | | | | | | May-94 | pestic., SOCs, CDDs/CDFs, metals | |
| 16 | | | | | | Jan/Feb-92 | metals, VOCs | |
| 16 | Soil | Pete's Pond | 36 | Jan/Feb-92 | metals, VOCs | | | |
| | | | 11 | Mar-92 | VOCs, SOCs, PCBs, metals | | | |
| | | | 6 | Feb-94 | VOCs, SOCs, PCBs, metals, Cr VI | | | |

**Table 2.1. Data Considered for the Baseline Risk Assessments - All Sites
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| Site | Medium | Area | Number of Samples | Sample Date | Analyses |
|------|-------------|--------------------------------------|----------------------------------|-------------|--|
| 16 | Soil | Pete's Pond cont. | 1 | Feb-94 | CDDs/CDFs |
| | | | 4 | Feb-94 | SOCs |
| | | Pete's Pond Extension | 4 | May-94 | pestic., SOCs, CDDs/CDFs, metals |
| | | | 5 | Aug-93 | VOCs, SOCs, metals, Cr VI |
| | | | 23 | Aug-93 | VOCs, metals, Cr VI |
| | | | 3 | Mar-94 | VOCs |
| | | | 6 | Mar-94 | VOCs, SOCs, metals, Cr VI, CDDs/CDFs |
| | 5 | Mar-94 | VOCs, SOCs, metals, Cr VI | | |
| | 3 | May-94 | pestic., SOCs, CDDs/CDFs, metals | | |
| | Groundwater | MW-16-01-A | 1 | Dec-93 | halogenated VOCs, SOCs, BTEX |
| | | | 1 | Feb-94 | halogenated VOCs, SOCs, BTEX |
| 17 | Soil | Site 17 | 12 | Jan-92 | VOCs, metals |
| | | | 10 | Aug-93 | VOCs, metals, Cr VI |
| | | | 3 | Aug-93 | VOCs, SOCs, metals, Cr VI |
| | | | 31 | Mar-94 | VOCs, SOCs, metals, Cr VI |
| | | | 13 | Mar-94 | CDDs/CDFs |
| | | | 18 | Mar-94 | PCBs |
| | Groundwater | MW-17-01-A | 1 | Sep-93 | halogenated VOCs, BTEX |
| | | | 1 | Dec-93 | halogenated VOCs, BTEX |
| | | | 1 | Feb-94 | halogenated VOCs, BTEX |
| | Groundwater | MW-17-02-180 | 1 | Sep-93 | halogenated VOCs, BTEX |
| | | | 1 | Feb-94 | halogenated VOCs, BTEX |
| 31 | Soil | North Slope | 12 | Feb-92 | VOCs, metals |
| | | | 11 | Aug-93 | metals, Cr VI |
| | | | 18 | Sep-93 | metals, Cr VI |
| | | | 2 | Mar-94 | metals, Cr VI |
| | | | 3 | Aug-93 | pestic./PCBs, CDDs/CDFs, metals, Cr VI |
| | | | 3 | Sep-93 | pestic./PCBs, CDDs/CDFs, metals, Cr VI |
| | | | 1 | Feb-94 | CDDs/CDFs, metals, Cr VI |
| | | | 10 | Mar-94 | CDDs/CDFs, metals, Cr VI |
| | | | 1 | Feb-94 | CDDs/CDFs |
| | | | 1 | Mar-94 | CDDs/CDFs |
| | | | 31 | Soil | North Slope |
| 1 | Mar-94 | pesticides | | | |
| 6 | Mar-94 | CDDs/CDFs, SOCs, metals, Cr VI | | | |
| 2 | Mar-94 | pesticides, metals, Cr VI | | | |
| 3 | Mar-94 | pesticides, CDDs/CDFs, metals, Cr VI | | | |
| 1 | Feb-94 | pesticides, CDDs/CDFs | | | |

**Table 2.1. Data Considered for the Baseline Risk Assessments - All Sites
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| Site | Medium | Area | Number of Samples | Sample Date | Analyses | |
|------|------------|-------------|-------------------|-------------|--|------------------|
| 31 | Soil | South Slope | 6 | Feb-92 | VOCs, metals | |
| | | | 8 | Aug-93 | metals, Cr VI | |
| | | | 2 | Feb-94 | CDDs/CDFs, metals, Cr VI | |
| | | | 1 | Mar-94 | CDDs/CDFs, metals, Cr VI | |
| | | | 2 | Feb-94 | CDDs/CDFs | |
| | | | 2 | Mar-94 | CDDs/CDFs | |
| | | LRTC Area | 2 | Aug-93 | metals, Cr VI | |
| | | | 4 | Sep-93 | metals, Cr VI | |
| | | | 1 | Aug-93 | pestic./PCBs, CDDs/CDFs, metals, Cr VI | |
| | | | 5 | Feb-94 | CDDs/CDFs, metals, Cr VI | |
| | | | 7 | Feb-94 | copper | |
| | | | 1 | Mar-94 | copper | |
| | | | 39 | Soil | 36A | 69 |
| 58 | Feb/Apr-92 | metals | | | | |
| BWMW | 40A | 14 | | | Feb-92 | BTEX, SOCs, lead |
| | 60 | Apr-94 | | | metals, BTEX | |
| 33 | 10 | Apr-94 | | | SOCs | |
| | 64 | Apr-94 | | | metals, BTEX | |
| | 7 | Apr-94 | | | explosives | |
| | 6 | Apr-94 | | | SOCs | |
| | 285 | Apr-94 | | | explosives, metals | |
| | | Apr-94 | | | | |

- VOCs Volatile organic compounds.
- SOCs Semivolatile organic compounds.
- pestic. Pesticides.
- PCBs Polychlorinated biphenyls.
- Cr VI Hexavalent chromium.
- DOL Department of Logistics.
- CDDs Chlorinated dibenzodioxins.
- CDFs Chlorinated dibenzofurans.
- BTEX Benzene, toluene, ethylbenzene, xylenes.
- MW Monitoring well.
- LRTC Leadership Reaction Training Compound.
- BWMW Basewide Monitoring Wells.

**Table 2.2 Background Concentrations of Metal in Soil - All Sites /a/
Volume III - Baseline Risk Assessment, Basewide RI/FS
Fort Ord, California**

| Chemicals | Shallow NQTP /b/ Soil Conditions Depth <2.0 feet Maximum Concentration (mg/kg) | Deep NQTP /b/ Soil Conditions Depth >2.0 feet Maximum Concentration (mg/kg) |
|-----------|---|--|
| Antimony | ND | 8.2 |
| Arsenic | 3.4 | 4.5 |
| Beryllium | 0.35 | 0.48 |
| Cadmium | ND | 1.9 |
| Chromium | 46.1 | 22.7 |
| Copper | 18.2 | 8.2 |
| Lead | 51.8 | 3.7 |
| Mercury | 0.12 | ND |
| Nickel | 58 | 19.5 |
| Selenium | ND | ND |
| Silver | 0.36 | 0.49 |
| Thallium | 0.45 | 0.39 |
| Zinc | 75.8 | 13.9 |

mg/kg Milligrams per kilogram.

NQTP Non-QTP, i.e., not from the Paso Robles Formation.

ND Not detected.

/a/ From HLA, 1993a. See Appendix G for additional information.

/b/ See Section 5.23, Volume II Basewide Background Soils Investigation for an explanation of soil type.

**Table 2.3. Potential Receptors and Exposure Pathways - All Sites
Volume III - Baseline Risk Assessment, Basewide RI/FS
Fort Ord, California**

| Site | Potential Receptor | Area | Potential Exposure Pathway | |
|-----------------|--------------------|-----------------------|---|---|
| Sites 2 and 12 | Onsite Resident | Site 12 ^{a/} | <ol style="list-style-type: none"> Inhalation of volatile compounds from groundwater through soil Incidental ingestion of surface soil (0-2 feet bgs) Dermal contact with surface soil (0-2 feet bgs) Inhalation of surface dust (0-2 feet bgs) | |
| | Commercial Worker | Site 2 | <ol style="list-style-type: none"> Incidental ingestion of surface soil (0-2 feet bgs) Dermal contact with surface soil (0-2 feet bgs) Inhalation of surface dust (0-2 feet bgs) | |
| Sites 16 and 17 | Utility Worker | Pete's Pond | <ol style="list-style-type: none"> Incidental ingestion of soil (0-10 feet bgs) Dermal contact with soil (0-10 feet bgs) Inhalation of dust (0-10 feet bgs) | |
| | Utility Worker | Pete's Pond Extension | <ol style="list-style-type: none"> Incidental ingestion of soil (0-10 feet bgs) Dermal contact with soil (0-10 feet bgs) Inhalation of dust (0-10 feet bgs) | |
| | Student Resident | Pete's Pond | <ol style="list-style-type: none"> Incidental ingestion of surface soil (0-2 feet bgs) Dermal contact with surface soil (0-2 feet bgs) Inhalation of surface dust (0-2 feet bgs) | |
| | | | Pete's Pond Extension | <ol style="list-style-type: none"> Incidental ingestion of surface soil (0-2 feet bgs) Dermal contact with surface soil (0-2 feet bgs) Inhalation of surface dust (0-2 feet bgs) |
| | | | Site 17 | <ol style="list-style-type: none"> Incidental ingestion of surface soil (0-2 feet bgs) Dermal contact with surface soil (0-2 feet bgs) Inhalation of surface dust (0-2 feet bgs) |
| | | | Sites 16 and 17 | <ol style="list-style-type: none"> Ingestion of groundwater as drinking water |

**Table 2.3. Potential Receptors and Exposure Pathways - All Sites
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| Site | Potential Receptor | Area | Potential Exposure Pathway |
|---------|----------------------------|-----------------------|--|
| | | | 2. Inhalation of volatile compounds from groundwater during showering |
| | Construction Worker | Site 17 | 1. Incidental ingestion of soil (0-10 feet bgs) 2. Dermal contact with soil (0-10 feet bgs) 3. Inhalation of dust (0-10 feet bgs) |
| | Construction Worker | DOL Maintenance Yard | 1. Incidental ingestion of soil (0-10 feet bgs) 2. Dermal contact with soil (0-10 feet bgs) 3. Inhalation of subsurface dust (0-10 feet bgs) |
| | Commercial Worker | DOL Maintenance Yard | 1. Incidental ingestion of surface soil (0-2 feet bgs) 2. Dermal contact with surface soil (0-2 feet bgs) 3. Inhalation of surface dust (0-2 feet bgs) |
| Site 3 | Nearby Resident | Site 3 ^{b/v} | 1. Incidental ingestion of surface soil (0-2 feet bgs) (RME scenario only) 2. Dermal contact with surface soil (0-2 feet bgs) (RME scenario only) 3. Inhalation of surface dust (0-2 feet bgs) |
| | Park Ranger | Site 3 | 1. Incidental ingestion of surface soil (0-2 feet bgs) 2. Dermal contact with surface soil (0-2 feet bgs) 3. Inhalation of surface dust (0-2 feet bgs) |
| Site 31 | Nearby Resident Trespasser | North Slope | 1. Incidental ingestion of surface soil (0-2 feet bgs) 2. Dermal contact with surface soil (0-2 feet bgs) 3. Inhalation of surface dust (0-2 feet bgs) |
| | | South Slope | 1. Incidental ingestion of surface soil (0 feet bgs) 2. Dermal contact with surface soil (0 feet bgs) 3. Inhalation of surface dust (0 feet bgs) |

**Table 2.3. Potential Receptors and Exposure Pathways - All Sites
Volume III - Baseline Risk Assessment, Basewide RI/FS
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| Site | Potential Receptor | Area | Potential Exposure Pathway |
|---------|---------------------------|-----------|--|
| | | LRTC Area | <ol style="list-style-type: none"> 1. Incidental ingestion of surface soil (0 feet bgs) 2. Dermal contact with surface soil (0 feet bgs) 3. Inhalation of surface dust (0 feet bgs) |
| Site 39 | Habitat Management Worker | Site 39 | <ol style="list-style-type: none"> 1. Incidental ingestion of surface soil (0-2 feet bgs) 2. Dermal contact with surface soil (0-2 feet bgs) 3. Inhalation of surface dust (0-2 feet bgs) |
| | Offsite Resident | Site 39 | <ol style="list-style-type: none"> 1. Inhalation of surface dust (0-2 feet bgs) |

Feet bgs Feet below ground surface.
 DOL Directorate of Logistics.
 RME Reasonable maximum exposure.
 LRTC Leadership reaction training compound.

- /a/ The average exposure scenario will be based on all data from Site 12. The RME scenario will be based on data from the area of highest groundwater concentrations.
- /b/ For all receptors selected for evaluation at Site 3, weighted exposure point concentrations will be determined based on the relative ammunition cover in the study areas. In addition, each bullet cover area (i.e., <1%, 1-10%, >10%) will be assessed separately.

**Table 2.4 Inhalation Rates, Ingestion Rates, Skin Surface Areas, and Body Weights
Average Exposure Scenario - All Sites
Volume III - Baseline Risk Assessment, Basewide RI/FS
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| Receptor (Age) | Inhalation Rate ^{/a/} (m ³ /hr) | Ingestion Rate, Soil ^{/b/} (mg/day) | Ingestion Rate, Water ^{/a/} (l/day) | Skin Surface Area ^{/a/} (cm ²) | Body Weight ^{/a/} (kg) |
|---|--|---|---|--|------------------------------------|
| Commercial Worker | 0.83 | 50 | NA | 2109 | 70 |
| Onsite Resident (0 to 6 years) | 1.24 | 50 | 0.4 | 1420 | 14 |
| (6 to 9 years) | 1.56 | 50 | 0.5 | 1635 | 24.2 |
| Utility Worker | 0.83 | 50 | NA | 2109 | 70 |
| Student Resident | 0.83 | 50 | 1.5 | 2109 | 70 |
| Construction Worker | 1.4 | 50 | NA | 2109 | 70 |
| Nearby Resident (0 to 6 years) | 1.24 | NA | NA | NA | 14 |
| (6 to 9 years) | 1.56 | NA | NA | NA | 24.2 |
| Park Ranger/Habitat Management Worker | 0.83 | 50 | 0.5 ^{/c/} | 2109 | 70 |
| Nearby Resident Trespasser (6 to 9 years) | 1.56 | 50 | NA | 1635 | 24.2 |
| Offsite Resident (0 to 6 years) | 1.24 | NA | NA | NA | 14 |
| (6 to 9 years) | 1.56 | NA | NA | NA | 24.2 |

m³/hr Cubic meters per hour.
mg/day Milligrams per day.
l/day Liters per day.
cm² Square centimeters.
kg Kilograms.
NA Not applicable.

/a/ EPA, 1990b.

/b/ Finley and Paustenbach, 1994.

/c/ Ingestion of groundwater evaluated for habitat management worker at Site 39.

**Table 2.5 Inhalation Rates, Ingestion Rates, Skin Surface Areas, and Body Weights
RME Scenario - All Sites
Volume III - Baseline Risk Assessment, Basewide RI/FS
Fort Ord, California**

| Receptor (Age) | Inhalation Rate ^{a/} (m ³ /hr) | Ingestion Rate, Soil ^{b/} (mg/day) | Ingestion Rate, Water ^{a/} (l/day) | Skin Surface Area ^{a/} (cm ²) | Body Weight ^{a/} (kg) |
|--|---|--|--|---|-----------------------------------|
| Commercial Worker | 1.25 | 50 | NA | 4714 | 70 |
| Onsite Resident (0 to 6 years) | 1.24 | 200 | 0.4 | 2348 | 14 |
| Onsite Resident (6 to 18 years) | 1.87 | 100 | 0.6 | 3764 | 41.6 |
| Onsite Resident (>18 years) | 1.25 | 100 | 2 | 4714 | 70 |
| Utility Worker | 1.25 | 100 | NA | 4714 | 70 |
| Student Resident | 1.25 | 100 | 2 | 4714 | 70 |
| Construction Worker | 3 | 480 | NA | 4714 | 70 |
| Nearby Resident (0 to 6 years) | 1.24 | 200 | NA | 2348 | 14 |
| Nearby Resident (6 to 18 years) | 1.87 | NA | NA | NA | 41.6 |
| Nearby Resident (>18 years) | 1.25 | 100 | NA | 4714 | 70 |
| Park Ranger/Habitat Management Worker | 1.25 | 100 | 1 /c/ | 4714 | 70 |
| Nearby Resident Trespasser (6 to 18 years) | 1.87 | 100 | NA | 3764 | 41.6 |
| Offsite Resident (0 to 6 years) | 1.24 | NA | NA | NA | 14 |
| (6 to 18 years) | 1.87 | NA | NA | NA | 41.6 |
| (18 to 30 years) | 1.25 | NA | NA | NA | 70 |

**Table 2.5 Inhalation Rates, Ingestion Rates, Skin Surface Areas, and Body Weights
RME Scenario - All Sites
Volume III - Baseline Risk Assessment, Basewide RI/FS
Fort Ord, California**

| Receptor (Age) | Inhalation Rate ^{/a/} (m ³ /hr) | Ingestion Rate, Soil ^{/b/} (mg/day) | Ingestion Rate, Water ^{/c/} (l/day) | Skin Surface Area ^{/a/} (cm ²) | Body Weight ^{/a/} (kg) |
|----------------|--|---|---|--|------------------------------------|
|----------------|--|---|---|--|------------------------------------|

m³/hr Cubic meters per hour.
mg/day Milligrams per day.
l/day Liters per day.
cm² Square centimeters.
kg Kilograms.
NA Not applicable.

/a/ EPA, 1990b.

/b/ EPA, 1989b.

/c/ Ingestion of groundwater evaluated for habitat management worker at Site 39.

Table 2.6. Absorption Factors - All Sites
Volume III - Baseline Risk Assessment, Basewide RI/FS
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| Chemical | Pathway | Absorption Factor /a/ (percent) |
|----------------------------|---------|---------------------------------|
| <u>SOCs</u> | | |
| B(a)P-TE | Dermal | 15 |
| Bis(2-ethylhexyl)phthalate | Dermal | 10 |
| Total cPAH | Dermal | 15 |
| <u>CDDs and CDFs</u> | | |
| TCDD-TE | Oral | 43 |
| | Dermal | 1 |
| <u>Metals</u> | | |
| Antimony | Dermal | 1 |
| Arsenic | Dermal | 3 |
| Cadmium | Dermal | 0.1 |
| Copper | Dermal | 1 |
| Mercury | Dermal | 1 |
| Nickel | Dermal | 1 |
| Silver | Dermal | 1 |
| Thallium | Dermal | 1 |
| <u>Pesticides</u> | | |
| 4,4'-DDE | Dermal | 5 |
| 4,4'-DDT | Dermal | 5 |
| Chlordane | Dermal | 5 |

Table 2.6. Absorption Factors - All Sites
Volume III - Baseline Risk Assessment, Basewide RI/FS
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| Chemical | Pathway | Absorption Factor /a/ (percent) |
|------------------------|--|---------------------------------|
| <u>Explosives</u> | | |
| 2-Amino-dinitrotoluene | Dermal | 100 |
| 4-Amino-dinitrotoluene | Dermal | 100 |
| HMX | Dermal | 100 |
| RDX | Dermal | 100 |
| 2,4,6-Trinitrotoluene | Dermal | 100 |
| <hr/> | | |
| VOCs | Volatile organic compounds. | |
| SOCs | Semivolatile organic compounds. | |
| B(a)P-TE | Benzo(a)pyrene toxic equivalents. | |
| cPAH | Carcinogenic polycyclic aromatic hydrocarbons. | |
| CDDs | Chlorinated dibenzodioxins. | |
| CDFs | Chlorinated dibenzofurans. | |
| TCDD-TE | 2,3,7,8-Tetrachlorodibenzo-p-dioxin toxic equivalents. | |
| HMX | Cyclotetramethylene tetranitramine. | |
| RDX | Cyclotrimethylene trinitramine. | |

/a/ Methods and sources for defining absorption factors are presented in Section 2.2.6.

**Table 2.7. TCDD Toxic Equivalent Factors - All Sites
Volume III - Baseline Risk Assessment, Basewide RI/FS
Fort Ord, California**

| Chemical | TEF /a/ |
|---|---------|
| Tetrachlorodibenzofurans (total) | 0 |
| 2,3,7,8-Tetrachlorodibenzofuran | 0.1 |
| Pentachlorodibenzofurans (total) | 0 |
| 1,2,3,7,8-Pentachlorodibenzofuran | 0.05 |
| 2,3,4,7,8-Pentachlorodibenzofuran | 0.5 |
| Hexachlorodibenzofurans (total) | 0 |
| 1,2,3,4,7,8-Hexachlorodibenzofuran | 0.1 |
| 1,2,3,6,7,8-Hexachlorodibenzofuran | 0.1 |
| 1,2,3,7,8,9-Hexachlorodibenzofuran | 0.1 |
| 1,2,4,6,7,8-Hexachlorodibenzofuran | 0 |
| 2,3,4,6,7,8-Hexachlorodibenzofuran | 0.1 |
| Heptachlorodibenzofurans (total) | 0 |
| 1,2,3,4,6,7,8-Heptachlorodibenzofuran | 0.01 |
| 1,2,3,4,7,8,9-Heptachlorodibenzofuran | 0.01 |
| Octachlorodibenzofuran | 0.001 |
| Tetrachlorodibenzo-p-dioxins (total) | 0 |
| 2,3,7,8-Tetrachlorodibenzo-p-dioxin | 1 |
| Pentachlorodibenzo-p-dioxins (total) | 0 |
| 1,2,3,7,8-Pentachlorodibenzo-p-dioxin | 0.5 |
| Hexachlorodibenzo-p-dioxins (total) | 0 |
| 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin | 0.1 |
| 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin | 0.1 |
| 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin | 0.1 |
| Heptachlorodibenzo-p-dioxins (total) | 0 |
| 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin | 0.01 |
| Octachlorodibenzo-p-dioxin | 0.001 |

TCDD 2,3,7,8-Tetrachlorodibenzo-p-dioxin.
TEF Toxic equivalent factor.

/a/ Source: EPA, 1989n.

**Table 2.8. Benzo(a)pyrene Toxic Equivalent Factors - All Sites
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Fort Ord, California**

| Chemical | TEF /a/ |
|------------------------|---------|
| Benz(a)anthracene | 0.1 |
| Benzo(a)pyrene | 1.0 |
| Benzo(b)fluoranthene | 0.1 |
| Benzo(k)fluoranthene | 0.01 |
| Chrysene | 0.001 |
| Dibenz(a,h)anthracene | 1.0 |
| Indeno(1,2,3-cd)pyrene | 0.1 |

TEF Toxic Equivalent Factor.

/a/ From: EPA, 1993f.

**Table 2.9. Reference Doses and Slope Factors for Chemicals of Potential Concern - All Sites
Volume III - Baseline Risk Assessment, Basewide RI/FS
Fort Ord, California**

| Chemical | Reference Doses | | | | | | Slope Factors | | | | | |
|-----------------------------|---------------------------------------|------------------------------------|---------------|---|--|---------------|--------------------------------------|---------------|---------------------------------|--|---------------|---------------------------------|
| | Oral RfD Subchronic (mg/kg/day) | Oral RfD Chronic (mg/kg/day) | Source /b/ | Inhalation RfD Subchronic (mg/kg/day) | Inhalation RfD Chronic (mg/kg/day) | Source /b/ | Oral SF (mg/kg/day) ⁻¹ | Source /b/ | Weight of Evidence /a/ | Inhalation SF (mg/kg/day) ⁻¹ | Source /b/ | Weight of Evidence /a/ |
| | <u>VOCs</u> | | | | | | | | | | | |
| Carbon tetrachloride | 7.0E-03 | 7.0E-04 | I94;HA92 | 7.0E-03 | 7.0E-04 | oral | 1.5E-01 | Cal-EPA92 | B2 | 1.5E-01 | Cal-EPA92 | B2 |
| 1,2-Dichloroethane | NA | NA | I94 | NA | NA | I94 | 9.1E-02 | I94 | B2 | 9.1E-02 | I94;HA93 | B2 |
| 1,1-Dichloroethene | 9.0E-03 | 9.0E-03 | I94;HA93 | 9.0E-03 | 9.0E-03 | oral | 6.0E-01 | I93 | C | 1.8E-01 | I94 | C |
| 1,2-Dichloroethene (total) | 9.0E-03 | 9.0E-03 | HA93 | 9.0E-03 | 9.0E-03 | oral | NA | HA93 | NA | NA | HA93 | NA |
| Methylene chloride | 6.0E-02 | 6.0E-02 | I94;HA93 | 9.0E-01 | 9.0E-01 | HA93 | 1.4E-02 | Cal-EPA92 | B2 | 3.5E-03 | Cal-EPA92 | B2 |
| Tetrachloroethene | 1.0E-01 | 1.0E-02 | I94;HA93 | 1.0E-01 | 1.0E-02 | oral | 5.1E-02 | Cal-EPA92 | NA | 5.1E-01 | Cal-EPA92 | NA |
| Trichloroethene | NA | 6.0E-03 | I93 | NA | 6.0E-03 | oral; | 1.5E-02 | Cal-EPA92 | NA | 1.0E-02 | Cal-EPA92 | NA |
| <u>SOCs</u> | | | | | | | | | | | | |
| B(a)P-TE /c/ | NA | NA | | NA | NA | | 1.2E+01 | Cal-EPA92 | B2 | 1.2E+01 | Cal-EPA92 | B2 |
| Bis(2-ethylhexyl)phthalate | 2.0E-02 | 2.0E-02 | I94 | 2.0E-02 | 2.0E-02 | oral | 1.4E-02 | I94 | B2 | 8.4E-03 | Cal-EPA92 | B2 |
| Pyrene /d/ | 3.0E-01 | 3.0E-02 | I94;HA93 | 3.0E-01 | 3.0E-02 | oral | DI | I94 | D | DI | I94 | D |
| Total Carcinogenic PAHs /d/ | 3.0E-01 | 3.0E-02 | I94;HA93 | 3.0E-01 | 3.0E-02 | oral | DI | I94 | D | DI | I94 | D |
| <u>Pesticides</u> | | | | | | | | | | | | |
| Chlordane | 6.0E-05 | 6.0E-05 | I94;HA93 | 6.0E-05 | 6.0E-05 | oral | 1.3E+00 | I94 | B2 | 1.3E+00 | I94;HA93 | B2 |
| 4,4'-DDE | NA | NA | I94 | NA | NA | I94 | 3.4E-01 | I94 | B2 | 3.4E-01 | Cal-EPA92 | B2 |
| 4,4'-DDT | 5.0E-04 | 5.0E-04 | I94;HA93 | 5.0E-04 | 5.0E-04 | oral | 3.4E-01 | I94 | B2 | 3.4E-01 | I94;HA93 | B2 |
| <u>Inorganics</u> | | | | | | | | | | | | |
| Nitrate | 1.6E+00 | 1.6E+00 | I94 | 1.6E+00 | 1.6E+00 | oral | NA | I94 | NA | NA | I94 | NA |
| Nitrite | 1.0E-01 | 1.0E-01 | I94;HA93 | 1.0E-01 | 1.0E-01 | oral | NA | I94 | NA | NA | I94 | NA |

**Table 2.9. Reference Doses and Slope Factors for Chemicals of Potential Concern - All Sites
Volume III - Baseline Risk Assessment, Basewide RI/FS
Fort Ord, California**

| Chemical | Reference Doses | | | | | | Slope Factors | | | | | |
|-----------------------------|---------------------------|------------------------|----------|---------------------------|------------------------|----------|--------------------------------------|-----------|------------|--|-----------|------------|
| | Oral RfD | Oral RfD | Source | Inhalation RfD | Inhalation RfD | Source | Oral SF (mg/kg/day) ⁻¹ | Source | Weight /a/ | Inhalation SF (mg/kg/day) ⁻¹ | Source | Weight /a/ |
| | Subchronic (mg/kg/day) | Chronic (mg/kg/day) | | Subchronic (mg/kg/day) | Chronic (mg/kg/day) | | | | Evidence | | | Evidence |
| <u>CDDs and CDFs</u> | | | | | | | | | | | | |
| TCDD-TE | NA | NA | HA92 | NA | NA | HA92 | 1.5E+05 | HA93 | B2 | 1.5E+05 | HA93 | B2 |
| <u>Metals</u> | | | | | | | | | | | | |
| Antimony | 4.0E-04 | 4.0E-04 | I94;HA93 | 4.0E-04 | 4.0E-04 | oral | NA | I94 | NA | NA | I94 | NA |
| Arsenic | 3.0E-04 | 3.0E-04 | I94;HA93 | 3.0E-04 | 3.0E-04 | oral | 1.8E+00 | EPA88 | A | 1.5E+01 | I94;HA93 | A |
| Beryllium | 5.0E-03 | 5.0E-03 | I94;HA93 | 5.0E-03 | 5.0E-03 | oral | 7.0E+00 | Cal-EPA93 | B2 | 8.4E+00 | I94;HA93 | B2 |
| Cadmium | 5.0E-04 | 5.0E-04 | I94 | 5.0E-04 | 5.0E-04 | oral | NA | I94 | B1 | 1.5E+01 | Cal-EPA92 | B1 |
| Copper | 3.7E-02 | 3.7E-02 | HA93 | 3.7E-02 | 3.7E-02 | oral | NA | I94 | D | NA | I94 | D |
| Lead | NA | NA | I94 | NA | NA | I94 | NA | I94 | B2 | NA | I94 | B2 |
| Manganese | 1.4E-01 | 1.4E-01 | I94;HA93 | 1.0E-04 | 1.0E-05 | I94;HA93 | DI | I94 | D | DI | I94 | D |
| Mercury | 3.0E-04 | 3.0E-04 | HA93 | 9.0E-05 | 9.0E-05 | HA93 | DI | I94 | D | DI | I94 | D |
| Nickel | 2.0E-02 | 2.0E-02 | I94;HA93 | 2.0E-02 | 2.0E-02 | oral | NA | Cal-EPA93 | A | 9.1E-01 | Cal-EPA92 | A |
| Silver | 5.0E-03 | 5.0E-03 | I94;HA93 | 5.0E-03 | 5.0E-03 | oral | NA | I94 | D | NA | I94 | D |
| Thallium (as Thallic oxide) | 7.0E-04 | 7.0E-05 | HA93 | 7.0E-04 | 7.0E-05 | oral | DI | I94 | D | DI | I94 | D |
| <u>Explosives</u> | | | | | | | | | | | | |
| Cyclonite (RDX) | 3.0E-03 | 3.0E-03 | I94;HA92 | 3.0E-03 | 3.0E-03 | oral | 1.1E-01 | I94 | C | 1.1E-01 | oral | C |
| 2-amino-Dinitrotoluene | 5.0E-04 | 5.0E-04 | TNT | 5.0E-04 | 5.0E-04 | TNT | 3.0E-02 | TNT | NA | 3.0E-02 | TNT | NA |
| 4-amino-Dinitrotoluene | 5.0E-04 | 5.0E-04 | TNT | 5.0E-04 | 5.0E-04 | TNT | 3.0E-02 | TNT | NA | 3.0E-02 | TNT | NA |
| HMX | 5.0E-01 | 5.0E-02 | I94 | 5.0E-01 | 5.0E-02 | oral | NA | I94 | D | NA | I94 | D |
| Trinitrotoluene | 5.0E-04 | 5.0E-04 | I94;HA92 | 5.0E-04 | 5.0E-04 | oral | 3.0E-02 | I94 | C | 3.0E-02 | I94 | C |

RfD Reference dose.
SF Slope factor.

**Table 2.9. Reference Doses and Slope Factors for Chemicals of Potential Concern - All Sites
Volume III - Baseline Risk Assessment, Basewide RI/FS
Fort Ord, California**

| Chemical | Reference Doses | | | | | | Slope Factors | | | | | |
|-----------|---|------------------------------------|---------------|---|--|---------------|--------------------------------------|---------------|--------------------------|--|---------------|--------------------------|
| | Oral RfD Subchronic (mg/kg/day) | Oral RfD Chronic (mg/kg/day) | Source /b/ | Inhalation RfD Subchronic (mg/kg/day) | Inhalation RfD Chronic (mg/kg/day) | Source /b/ | Oral SF (mg/kg/day) ⁻¹ | Source /b/ | Weight of Evidence | Inhalation SF (mg/kg/day) ⁻¹ | Source /b/ | Weight of Evidence |
| mg/kg/day | Milligrams per kilogram per day. | | | | | | | | | | | |
| VOCs | Volatile organic compounds. | | | | | | | | | | | |
| 1.0E-01 | 1 x 10 ⁻¹ | | | | | | | | | | | |
| I94 | Integrated Risk Information System (IRIS; EPA, 1994). | | | | | | | | | | | |
| HA93 | Health Effects Assessment Summary Tables (HEAST; EPA, 1993e). | | | | | | | | | | | |
| NA | Not available. | | | | | | | | | | | |
| HA92 | HEAST, 1992 (EPA, 1992b). | | | | | | | | | | | |
| Cal/EPA92 | California Environmental Protection Agency, 1992b. | | | | | | | | | | | |
| SOCs | Semivolatile organic compounds. | | | | | | | | | | | |
| DI | Data inadequate for quantitative risk assessment. | | | | | | | | | | | |
| cPAHs | Carcinogenic polycyclic aromatic hydrocarbons. | | | | | | | | | | | |
| ND | No data. | | | | | | | | | | | |
| CDDs | Chlorinated dibenzodioxins. | | | | | | | | | | | |
| CDFs | Chlorinated dibenzofurans. | | | | | | | | | | | |
| TCDD | Tetrachlorodibenzo-p-dioxin. | | | | | | | | | | | |
| N | Nitrogen. | | | | | | | | | | | |
| HMX | Cyclotetramethylene tetranitramine. | | | | | | | | | | | |
| RDX | Cyclotrimethylene trinitramine. | | | | | | | | | | | |

/a/ Weight of Evidence: A = known human carcinogen; B = probable human carcinogen (B1 = limited evidence of carcinogenicity in humans; B2 = sufficient evidence in animals and inadequate or lack of evidence in humans); C = possible human carcinogen; D = not classifiable as to human carcinogenicity (EPA, 1993y).

/b/ "Oral" in the "Source" column indicates that the inhalation RfD was derived from the oral RfD by route-to-route extrapolation or that the inhalation SF was derived from the oral SF.

/c/ The SFs for benzo(a)pyrene were used to evaluate the carcinogenic effects of B(a)P-TE (see text).

/d/ Potential noncarcinogenic health effects of carcinogenic polycyclic aromatic hydrocarbons were evaluated using the RfD for pyrene.

/e/ The SFs for 2,3,7,8-TCDD were used to evaluate TCDD-toxic equivalents.

/f/ Values for nickel are for nickel and compounds.

/g/ Nickel was not evaluated as an oral carcinogen on the basis of Cal/EPA Department of Toxic Substances Control guidance (22 California Code of Regulations, Article 7, Paragraph 12707, 1993).

/h/ Values for thallium are those for thallic oxide, which has the most conservative RfDs (i.e., lowest) of the thallium salts (EPA, 1993y).