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Table B-1. Summary of data available for potential release sites within TAN (WAG 1).

OU	Subunit	Site description	Suspected contaminants	Data available	Source of information
None[a]	IET-02	IET Burial Pit NE of IET	None	Inspection indicates no source.	Federal Facility Compliance Act/Consent Order, 1991.
None	IET-08	IET Septic Tank and Filter Bed	None	Inspection indicates no source.	Federal Facility Compliance Act/Consent Order, 1991.
None	LOFT-04	LOFT Injection Well	None	Inspection indicates no source.	Federal Facility Compliance Act/Consent Order, 1991.
None	LOFT-09	LOFT Septic Tank and Drain Field	None	Inspection indicates no source.	Federal Facility Compliance Act/Consent Order, 1991.
None	LOFT-13	LOFT Dry Well	None	Inspection indicates no source.	Federal Facility Compliance Act/Consent Order, 1991.
None	SMC-01	SMC Septic Tank and Drain Field	None	Inspection indicates no source.	Federal Facility Compliance Act/Consent Order, 1991.
None	TSF-16	TSF Brine Pit N of TAN-608	None	Inspection indicates no source.	Federal Facility Compliance Act/Consent Order, 1991.
None	TSF-30	TSF Septic Tank E of TAN-602	None	Inspection indicates no source.	Federal Facility Compliance Act/Consent Order, 1991.
None	TSF-34	Fuel Tank S of TAN-607	None	Inspection indicates no source.	No Action Document in Administrative Record.
None	TSF-35	Acid Sump SE of TAN-609	None	Inspection indicates no source.	No Action Document in Administrative Record.
None	TSF-40	Rubble Pile Near TAN	None	Inspection indicates no source.	No Action Document in Administrative Record.
None	TSF-41	Scrap Yard South	None	Inspection indicates no source.	No Action Document in Administrative Record.
None	WRRTF-07	WRRTF Septic Tank and Sand Filters	None	Inspection indicates no source.	Federal Facility Compliance Act/Consent Order, 1991.
1-01	IET-05	IET Foam Stabilizer Tank	Biodegradable foam	Field inspection and screening results indicates no source.	Track 1 Decision Document.
1-01	IET-06	IET Injection Well	Sanitary waste, radiological	Groundwater monitoring data.	Track 1 Decision Document.
1-01	LOFT-03	LOFT Rubble Pit S of LOFT Disposal Pond	Construction debris, unknown	Field inspection and screening results during debris removal indicates no source.	Track 1 Decision Document.
1-01	LOFT-07	LOFT Foam Solution Tank	Metals, radiological	Field screening and confirmatory samples during removal indicates no source.	Preliminary Scoping Track 2 Summary Report for OU 1-08, Draft, March 1995.
1-01	LOFT-11	LOFT Cryogen Pits (3) E of TAN-629	None	Records document that site was never used and field inspection verify no source.	Track 1 Decision Document.

Table B-1. Summary of data available for potential release sites within TAN (WAG 1).

OU	Subunit	Site description	Suspected contaminants	Data available	Source of information
1-01	LOFT-14	LOFT Asbestos Piping	Asbestos	Field inspection indicates no source.	Track 1 Decision Document.
1-01	LOFT-15	LOFT Buried Asbestos Pit	Asbestos, debris, unknown	Field inspection indicates no source.	Track 1 Decision Document.
1-01	TSF-01	TSF Diesel Tank W of TAN-607 and Fuel Spill	Diesel	Field inspection and screening during removal; confirmatory analytical data.	Track 1 Decision Document.
1-01	TSF-04	TSF Gravel Pit/Acid Pit	Construction debris, sulfuric acid	Field inspection indicates no source.	Track 1 Decision Document.
1-01	TSF-11	TSF Three Clarifier Pits E of TAN-604	Organics, metals, radiological	Field screening and confirmatory samples during removal indicate potential, residual radiological contamination.	Preliminary Scoping Track 2 Summary Report for OU 1-08, Draft, March 1995.
1-01	TSF-39	TSF Transite (Asbestos) Contamination	Asbestos	Field inspection and records document that source is fixed.	Track 1 Decision Document.
1-01	TSF-42	TAN-607-A Room 161 Contaminated Pipe	Radiological	Field inspection and records document that source is fixed.	Track 1 Decision Document; WAG 1 OU 1-10 Work Plan.
1-01	TSF-43	RPSSA Buildings 647/648 and Pads	Radiological, mercury (TSF-08)	Records indicate that radiological contamination is fixed. See OU 1-06, TSF-08 for mercury.	Track 1 Decision Document; WAG 1 OU 1-10 Work Plan.
1-02	IET-01	IET Gasoline Storage Tank	Gasoline	Field screening during removal indicates no source. Confirmatory samples indicate residual source (2-butanone) at 12 ft bgs.	Track 1 Decision Document.
1-02	IET-09	IET Lube Oil Tank	Petroleum products, metals	Field screening and confirmatory samples during removal indicates no source.	Track 1 Decision Document.
1-02	IET-10	IET Diesel Fuel Tank	Diesel	Confirmatory samples during removal indicated residual xylene and TPH at 20 ft bgs.	Track 1 Decision Document.
1-02	IET-11	IET Heating Oil Tank	Diesel	Confirmatory samples during removal indicate residual ethylbenzene, xylene, toluene, and TPH at 20 ft bgs. Data for metals.	Track 1 Decision Document.
1-02	LOFT-05	LOFT Two Fuel Tanks	Petroleum products	Visual inspection indicates no source. Future use identified.	Track 1 Decision Document.
1-02	LOFT-06	LOFT Slop Tank E of TAN-631	Diesel-contaminated wastewater	Visual inspection indicates no source.	Track 1 Decision Document.
1-02	LOFT-08	LOFT Tank in Borrow Pits	Stormwater run-off	Confirmatory samples during removal indicate residual ethylbenzene, toluene, and xylene 22 ft bgs.	Track 1 Decision Document.
1-02	TSF-13	TSF Gasoline Tank N of TAN-610	Gasoline	Field inspection and field screening of soil boring indicates no source.	Track 1 Decision Document.
1-02	TSF-14	TSF Fuel Oil Tank NW of TAN-603	Diesel	Confirmatory soil samples during removal indicate	Track 1 Decision Document.

Table B-1. Summary of data available for potential release sites within TAN (WAG 1).

OU	Subunit	Site description	Suspected contaminants	Data available	Source of information
				residual benzene, ethylbenzene, toluene, xylene, TPH, 1,3-dichlorobenzene, and 1,4-dichlorobenzene 12 ft bgs.	
1-02	TSF-15	TSF Fuel Tank W of TAN-603	Diesel	Confirmatory soil samples during removal indicate residual TPH 9 ft bgs.	Track 1 Decision Document.
1-02	TSF-24	TSF Fuel Oil Tank Under SW Corner of TAN-607	Gasoline, jet fuel	Confirmatory soil samples during removal indicate no residual contamination 12 ft bgs.	Track 1 Decision Document.
1-02	TSF-25	TSF Oil Sumps E of TAN-609	Jet fuel, petroleum products	Exploratory borehole and field screening indicate potential contamination.	Track 1 Decision Document.
1-02	TSF-32	TSF Oil Tank S of TAN-601	Petroleum products	Field inspection and field screening indicate no source.	Track 1 Decision Document.
1-02	TSF-33	TSF T-11 Fuel Tank E of TAN-602	Diesel	Field inspection and field screening during removal indicated no source. Confirmatory soil samples indicate no residual contamination 17 ft bgs.	Track 1 Decision Document.
1-02	WRRTF-09	WRRTF Diesel Fuel Tank	Diesel	Confirmatory soil samples during removal indicate residual TPH at 15 ft bgs. Contaminated soil removed.	Track 1 Decision Document.
1-02	WRRTF-10	WRRTF Gasoline Tank	Gasoline	Confirmatory soil samples during removal indicate no residual contamination 16 feet bgs. Contaminated soil removed.	Track 1 Decision Document.
1-02	WRRTF-12	WRRTF Diesel Fuel Tank	Diesel	Confirmatory soil samples during removal indicate residual ethylbenzene, toluene, xylene, and TPH 18 ft bgs.	Track 1 Decision Document.
1-03	TSF-02	TSF Service Station Spill	Gasoline	Field monitoring and confirmatory soil samples indicate residual contamination of TPH 12 ft bgs.	Track 1 Decision Document.
1-03	TSF-03	TSF Burn Pit	Metals, organics	Sampling and analysis data for metals and organics indicate lead as primary contaminant of concern 4 to 5 ft bgs.	Track 2 Investigation.
1-03	TSF-38	TSF Bottle Site	Metals, unknown	Verification sampling after removal action indicates no source.	Track 1 Decision Document; TSF-38 Removal Document.
1-03	WRRTF-01	WRRTF Burn Pits I, II, III, and IV	Metals, radiological, organics	Sampling and analysis data for metals, radionuclides, and organics indicate lead, chromium, plutonium-239,-249, and cobalt-60 as COPCs.	Track 2 Investigation.
1-04	LOFT-02	LOFT Disposal Pond	Metals, inorganics, radiological	Historical data from pond water, sediment, and soil samples indicate that beryllium, chromium,	Track 2 Investigation.

Table B-1. Summary of data available for potential release sites within TAN (WAG 1).

OU	Subunit	Site description	Suspected contaminants	Data available	Source of information
				fluoride, nitrate-N, and tritium are COPCs.	
1-04	TSF-12	TSF Acid Neutralization Sump N of TAN-602	Metals, organics, acid	Historical records indicate no releases or source. Tanks have been abandoned in an appropriate manner.	Track 2 Investigation.
1-04	TSF-17	TSF Two Acid Neutralization Pits N of TAN-649	Metals, radiological	Field screening and confirmatory sampling indicate no source.	Track 2 Investigation.
1-04	TSF-19	TSF Caustics Tank V-4 S of TAN-616	Sodium hydroxide	Field inspection and field screening indicate no source.	Track 1 Decision Document.
1-04	TSF-20	TSF Two Neutralization Pits N of TAN-607	Metals, radiological	Field screening and confirmatory sampling during removal indicate no source.	Track 2 Investigation.
1-04	TSF-29	TSF Acid Pond	Radiological	Site investigation, field survey, and soil data indicate contamination of cesium-137, cobalt-60, and strontium-90.	Track 2 Investigation.
1-04	TSF-31	TSF Acid Pit W of TAN-647	Acid, metals, radiological	Historical records and site investigation indicates no release and no source.	Track 2 Investigation.
1-05	IET-04	IET Stack Rubble Site	Debris	Historical records, field inspection and sampling data indicate no source at 15 to 20 ft bgs.	Track 1 Decision Document; Track 2 PSP.
1-05	IET-07	IET Hot Waste Tank	Radiological	Historical records indicate no source.	Track 1 Decision Document; Track 2 PSP.
1-05	TSF-06	TSF TAN/TSF-01 Area (Soil Area)	Mercury, radiological	Historical records and analytical data indicate potential radionuclide source; mercury under OU 1-06, TSF-08.	Track 2 Investigation.
1-05	TSF-09	TSF Intermediate-Level (Radioactive) Waste Disposal System	PCBs, radiological, organics, metals	Historical records, field inspection, soil sampling data indicates contamination of radionuclides and PCBs on surface and radionuclides at 10 to 22 ft bgs. Integrated TSF-09/-18. Tank content data.	Track 2 Investigation.
1-05	TSF-10	Drainage Pond	Radiological, metals	Historical records, field investigation, and sampling data indicate potential radiological contamination.	Track 2 Investigation.
1-05	TSF-18	Contaminated Tank SE of Tank V-3	PCBs, radiological	Sampling data from integrated TSF-09/-18.	Track 2 Investigation.
1-05	TSF-21	TSF IET Valve Pit	PCBs, radiological, organics	Sludge and soil sampling data.	Track 2 Investigation.
1-05	TSF-26	TSF PM-2A Tanks	Aluminum, chromium, radiological	Sludge and soil sampling data.	Track 2 Investigation.
1-05	WRRTF-04	WRRTF Radioactive Liquid Waste Tank	None	Historical records, field investigation, soil sampling data indicate no source.	Track 2 Investigation.
1-06	LOFT-01	LOFT Diesel Fuel Spills	Diesel	Field screening and confirmatory sampling data collected during removal indicate residual toluene,	Track 1 Investigation.

Table B-1. Summary of data available for potential release sites within TAN (WAG 1).

OU	Subunit	Site description	Suspected contaminants	Data available	Source of information
				xylene, and TPH contamination 10 to 30 ft bgs.	
1-06	LOFT-10	LOFT Sulfuric Acid Spill	Sulfuric acid	Sampling and analysis data indicate no source.	Track 1 Decision Document.
1-06	TSF-07	TSF Disposal Pond	Metals, radiological	Pond water, sediments, subsurface soil, and perched water sampling indicate antimony, arsenic, barium, beryllium, cadmium, mercury, selenium, cobalt-60, and cesium-137 as source.	Track 1 Decision Document.
1-06	TSF-08	TSF HTRE III Mercury Spill Sites 13B & 13C	Mercury	Post-removal sampling and analysis data indicate residual source.	Preliminary Scoping Track 2 Summary Report for Operable Unit 1-08, Draft, March 1995.
1-07A/B	TSF-05/23	TSF Injection Well and Contaminated Grounder Under TSF	Trichloroethylene, tetrachloroethylenec is- and trans-1,2 dichloroethylene, tritium, strontium-90, cesium-137	Predicted results indicating MCL compliance	RI/FS Document; Record of Decision
1-08	TSF-22	TSF Railroad Turntable	Mercury, radiological	Field screening and confirmatory sampling during "hot spot" removal detected residual mercury, cobalt-60, cesium-137, and uranium-235 remaining.	Preliminary Scoping Track 2 Summary Report for Operable Unit 1-08, Draft, March 1995.
1-08	TSF-28	TSF Sewage Treatment Plant and Sludge Drying Beds	Metals, organics, radiological	Field inspection indicates that contaminant releases from the sludge and underlying sand filter bed have not occurred to subsurface soil. No subsurface source.	Preliminary Scoping Track 2 Summary Report for Operable Unit 1-08, Draft, March 1995; WAG 1 OU 1-10 Work Plan.
1-08	WRRTF-05	WRRTF Injection Well	Organics	Groundwater sampling data from the WAG 1 OU 1-10 RI.	RI Report.
1-08	WRRTF-13	WRRTF Fuel Leak	Diesel	Borehole sampling and analysis data from the WAG 1 OU 1-10 RI.	RI Report.
1-09	TSF-36	TSF TAN-603 French Drain	Radiological, metals, organics	Soil sampling and analysis indicate residual benzo(a)pyrene, pyrene, and beryllium 11 ft bgs.	Summary Report for Removal of TAN-603 French Drain (TSF-36), March 1995.
1-09	TSF-37	TSF Contaminated Well Water Spill	Organics, radiological	Soil sampling and analysis indicate residual methylene chloride, acetone, cesium-137, tritium, strontium-90, uranium-234, and uranium-234 contamination.	Track 2 Investigation.
1-09	WRRTF-02	WRRTF Two Phase Pond	None	Engineering drawings and historical data indicate no source.	Track 2 Investigation.
1-09	WRRTF-03	WRRTF Evaporation Pond	None	Wastewater sample data indicate no source.	Track 1 Decision Document.
1-09	WRRTF-06	WRRTF Sewage Lagoon	None	Wastewater sample data indicate no source.	Track 1 Decision Document.
1-10	TSF-27	TSF Paint Shop Drain	Organics, metals	Core sample data	Track 1 Decision Document

Table B-1. Summary of data available for potential release sites within TAN (WAG 1).

OU	Subunit	Site description	Suspected contaminants	Data available	Source of information
New site[b]	LOFT-16	LOFT Landfill NE of LOFT-02 Drainage Pond	TPH, metal	Field inspection and field soil gas screening indicate no source.	Track 1 Decision Document.
New site	LOFT-12	LOFT N Transformer Yard PCB Spill and Soil Site	PCBs	Analytical data for soil and concrete samples. Confirmatory soil sample after removal.	Track 1 Decision Document.
New site	TSF-44	TSF Diesel Fuel Pipeline Leak NW of TAN/TSF-604	Diesel	Field inspection and field soil gas screening indicate no source.	Track 1 Decision Document.
New site	TSF-45	AEC Burial Pit	Asbestos	Field inspection.	Track 1 Decision Document.
New site	None	IET Pond and Ditch W of IET	None	Inspection indicates no source.	New Site Identification Form
New site	None	IET Gravel Pit	None	Inspection indicates no source.	New Site Identification Form
New site	None	IET Burn Pit E of IET	None	Inspection indicates no source. This site will be further evaluated.	New Site Identification Form
New site	None	LOFT Burn Pit NW of LOFT	None	Inspection indicates no source. This site will be further evaluated.	New Site Identification Form
New site	None	TSF Burn Pit II SW of the TSF-05 Injection Well	None	Inspection indicates no source. This site will be further evaluated.	New Site Identification Form
New site	None	TSF Radioactive Spills on Bear Blvd. W of TAN-607	None	Inspection indicates no source.	New Site Identification Form
New site	None	Radioactive Spill 2 mi. S of TAN on Lincoln Blvd.	None	Inspection indicates no source.	New Site Identification Form
New site	None	Sand Piles S of TSF and SW of WRRTF	None	Inspection indicates no source.	New Site Identification Form
New site	None	WRRTF Transite Area	None	Inspection indicates no source.	New Site Identification Form
New site	None	Broken Pipe in Berm E of TAN-633	Diesel	Field inspection.	New Site Identification Form
New site	None	Buried Asbestos behind the Hanger at SMC	None	Inspection indicates no source.	New Site Identification Form

a. Sites identified as "None" do not have OU designations because they are considered "No Action." These sites were originally designated as potential release site in the COCA, but found to require no further action as listed in the FFA/CO or as documented in the Administrative Record.

b. "New Sites" are those identified after the FFA/CO was signed (Attachment II).

Table B-2. Summary of potential release sites retained or eliminated for WAG 1 OU 1-10 preliminary cumulative risk assessment.

OU	Subunit	Site description	Type of investigation	Eliminate/Retain/ COPC Screen?	Reason for elimination
None	IET-02	IET Burial Pit NE of IET	FFA/CO	Eliminate	Removed from COCA; No Action under FFA/CO
None	IET-08	IET Septic Tank and Filter Bed	FFA/CO	Eliminate	Removed from COCA; No Action under FFA/CO
None	LOFT-04	LOFT Injection Well	FFA/CO	Eliminate	Removed from COCA; No Action under FFA/CO
None	LOFT-09	LOFT Septic Tank and Drain Field	FFA/CO	Eliminate	Removed from COCA; No Action under FFA/CO
None	LOFT-13	LOFT Dry Well	FFA/CO	Eliminate	Removed from COCA; No Action under FFA/CO
None	SMC-01	SMC Septic Tank and Drain Field	FFA/CO	Eliminate	Removed from COCA; No Action under FFA/CO
None	TSF-16	TSF Brine Pit N of TAN-608	FFA/CO	Eliminate	Removed from COCA; No Action under FFA/CO
None	TSF-30	TSF Septic Tank E of TAN-602	FFA/CO	Eliminate	Removed from COCA; No Action under FFA/CO
None	TSF-34	Fuel Tank S of TAN-607	FFA/CO	Eliminate	Removed from COCA; No Action under FFA/CO
None	TSF-35	Acid Sump SE of TAN-609	FFA/CO	Eliminate	Removed from COCA; No Action under FFA/CO
None	TSF-40	Rubble Pile Near TAN	FFA/CO	Eliminate	Removed from COCA; No Action under FFA/CO
None	TSF-41	Scrap Yard South	FFA/CO	Eliminate	Removed from COCA; No Action under FFA/CO
None	WRRTF-07	WRRTF Septic Tank and Sand Filters	FFA/CO	Eliminate	Removed from COCA; No Action under FFA/CO
1-01	IET-05	IET Foam Stabilizer Tank	Track 1	Eliminate	No source; No Action site
1-01	IET-06	IET Injection Well	Track 1	Eliminate	No source
1-01	LOFT-03	LOFT Rubble Pit S of LOFT Disposal Pond	Track 1	Eliminate	No source; No Action site
1-01	LOFT-07	LOFT Foam Solution Tank	Track 1	Eliminate	No source; No Action site
1-01	LOFT-11	LOFT Cryogen Pits (3) E of TAN-629	Track 1	Eliminate	No source; No Action site

Table B-2. Summary of potential release sites retained or eliminated for WAG 1 OU 1-10 preliminary cumulative risk assessment.

OU	Subunit	Site description	Type of investigation	Eliminate/Retain/ COPC Screen?	Reason for elimination
1-01	LOFT-14	LOFT Asbestos Piping	Track 1	Eliminate	No source; No Action site
1-01	LOFT-15	LOFT Buried Asbestos Pit	Track 1	Eliminate	No source; No Action site
1-01	TSF-01	TSF Diesel Tank W of TAN-607 & Fuel Spill	Track 1	Eliminate	No Action site
1-01	TSF-04	TSF Gravel Pit/Acid Pit	Track 1	Eliminate	No source; No Action site
1-01	TSF-11	TSF Three Clarifier Pits E of TAN-604	Track 1	Retain	Not applicable
1-01	TSF-39	TSF Transite (Asbestos) Contamination	Track 1	Eliminate	No source; No Action site
1-01	TSF-42	TAN-607-A Room 161 Contaminated Pipe	Track 1	Eliminate	No available source of contamination; no known environmental release; will be evaluated as part of the collocated facility assessment
1-01	TSF-43	RPSSA Buildings 647/648 and Pads	Track 1	Eliminate	Will be evaluated as part of the collocated facility assessment
1-02	IET-01	IET Gasoline Storage Tank	Track 1	Eliminate	No source; No Action site
1-02	IET-09	IET Lube Oil Tank	Track 1	Eliminate	No source; No Action site
1-02	IET-10	IET Diesel Fuel Tank	Track 1	Eliminate	No Action site
1-02	IET-11	IET Heating Fuel Tank	Track 1	Eliminate	No Action site
1-02	LOFT-05	LOFT Two Fuel Tanks	Track 1	Eliminate	No source; No Action site
1-02	LOFT-06	LOFT Slop Tank E of TAN-631	Track 1	Eliminate	No source; No Action site
1-02	LOFT-08	LOFT Tank in Borrow Pits	Track 1	Eliminate	No Action site
1-02	TSF-13	TSF Gasoline Tank N of TAN-610	Track 1	Eliminate	No source; No Action site
1-02	TSF-14	TSF Fuel Oil Tank NW of TAN-603	Track 1	Eliminate	No Action site
1-02	TSF-15	TSF Fuel Tank W of TAN-603	Track 1	Eliminate	No Action site
1-02	TSF-24	TSF Fuel Oil Tank Under SW Corner of TAN-607	Track 1	Eliminate	No source; No Action site
1-02	TSF-25	TSF Oil Sumps E of TAN-609	Track 1	Eliminate	No Action site
1-02	TSF-32	TSF Oil Tank S of TAN-601	Track 1	Eliminate	No source; No Action site
1-02	TSF-33	TSF T-11 Fuel Tank E of TAN-602	Track 1	Eliminate	No source; No Action site
1-02	WRRTF-09	WRRTF Diesel Fuel Tank	Track 1	Eliminate	No source; No Action site

Table B-2. Summary of potential release sites retained or eliminated for WAG 1 OU 1-10 preliminary cumulative risk assessment.

OU	Subunit	Site description	Type of investigation	Eliminate/Retain/ COPC Screen?	Reason for elimination
1-02	WRRTF-10	WRRTF Gasoline Tank	Track 1	Eliminate	No source; No Action site
1-02	WRRTF-12	WRRTF Diesel Fuel Tank	Track 1	Eliminate	No Action site
1-03	TSF-02	TSF Service Station Spill	Track 1	Eliminate	No source
1-03	TSF-03	TSF Burn Pit	Track 2	Retain	Not applicable
1-03	TSF-38	TSF Bottle Site	Track 2	COPC Screen	Not applicable
1-03	WRRTF-01	WRRTF Burn Pit	Track 2	Retain	Not applicable
1-04	LOFT-02	LOFT Disposal Pond	Track 2	Eliminate	No source
1-04	TSF-12	TSF Acid Neutralization Sump N of TAN-602	Track 2	Eliminate	No source
1-04	TSF-17	TSF Two Acid Neutralization Pits N of TAN-649	Track 2	Eliminate	No source
1-04	TSF-19	TSF Caustics Tank V-4 S of TAN-616	Track 1	Eliminate	No source
1-04	TSF-20	TSF Two Neutralization Pits N of TAN-607	Track 2	Eliminate	No source
1-04	TSF-29	TSF Acid Pond	Track 2	Retain	Not applicable
1-04	TSF-31	TSF Acid Pit W of TAN-647	Track 2	Eliminate	No source
1-05	IET-04	IET Stack Rubble Site	Track 1	Retain	Not applicable; include in uncertainty analysis
1-05	IET-07	IET Hot Waste Tank	Track 2	Eliminate	No source
1-05	TSF-06	TSF TAN/TSF-1 Area (Soil Area)	Track 2	Retain	Not applicable
1-05	TSF-09	TSF Intermediate-Level (Radioactive) Waste Disposal System	Track 2	Retain	Not applicable
1-05	TSF-10	TSF Drainage Pond	Track 2	Retain	Not applicable
1-05	TSF-18	TSF Contaminated Tank SE of Tank V-3	Track 2	Retain	Not applicable
1-05	TSF-21	TSF IET Valve Pit	Track 2	Retain	Not applicable
1-05	TSF-26	TSF PM-2A Tanks	Track 2	Retain	Not applicable
1-05	WRRTF-04	WRRTF Radioactive Liquid Waste Tank	Track 2	COPC Screen	Not applicable
1-06	LOFT-01	LOFT Diesel Fuel Spills	Track 1	Eliminate	No Action site
1-06	LOFT-10	LOFT Sulfuric Acid Spill	Track 1	Eliminate	No source; No Action site

Table B-2. Summary of potential release sites retained or eliminated for WAG 1 OU 1-10 preliminary cumulative risk assessment.

OU	Subunit	Site description	Type of investigation	Eliminate/Retain/ COPC Screen?	Reason for elimination
1-06	TSF-07	TSF Disposal Pond	Track 1	Retain	Not applicable
1-06	TSF-08	TSF HTRE III Mercury Spill Area Sites 13B & 13C	Track 2	Retain	Not applicable
1-07A/B	TSF-05 TSF-23	TSF Injection Well and Contaminated Groundwater Beneath TSF	RI/FS	Retain	Not applicable
1-08	TSF-22	TSF Railroad Turntable	Track 2	Retain	Not applicable
1-08	TSF-28	TSF Sewage Treatment Plant and Sludge Drying Beds	Track 2	Eliminate	Will be evaluated as part of the collocated facilities assessment
1-08	WRRTF-05	WRRTF Injection Well	Track 2	Retain	Not applicable
1-08	WRRTF-13	WRRTF Fuel Leak	Track 2	Retain	Not applicable
1-09	TSF-36	TSF TAN-603 French Drain	Track 1	Retain	Not applicable
1-09	TSF-37	TSF Contaminated Well Water Spill	Track 1	Retain	Not applicable
1-09	WRRTF-02	WRRTF Two Phase Pond	Track 1	Eliminate	No source
1-09	WRRTF-03	WRRTF Evaporation Pond	Track 1	Eliminate	No source
1-09	WRRTF-06	WRRTF Sewage Lagoon	Track 1	Eliminate	No source
1-10	TSF-27	TSF Paint Shop Drain	Track 1	COPC Screen	Not applicable
New site	LOFT-16	LOFT Landfill NE of LOFT-02 Drainage Pond	Track 1	Eliminate	No source
New site	LOFT-12	LOFT N Transformer Yard PCB Spill and Soil Site	Track 1	Retain	Not applicable
New site	TSF-44	TSF Diesel Fuel Pipeline Leak NW of TAN-604	Track 1	Eliminate	No source
New site	TSF-45	AEC Burial Pit	Track 1	Eliminate	No source
New site	None	IET Pond and Ditch W of IET	Field inspection	Eliminate	New Site identification determined this site was not an Inactive Waste Site
New site	None	IET Gravel Pit	Field inspection	Eliminate	New Site identification determined this site was not an Inactive Waste Site
New site	None	IET Burn Pit E of IET	Field inspection and employee interviews	Eliminate	New Site identification determined this site was not an Inactive Waste Site. Personal interviews and site photographs indicate that

Table B-2. Summary of potential release sites retained or eliminated for WAG 1 OU 1-10 preliminary cumulative risk assessment.

OU	Subunit	Site description	Type of investigation	Eliminate/Retain/ COPC Screen?	Reason for elimination
					only construction debris (i.e. non-hazardous materials) were disposed of in this pit.
New site	None	LOFT Burn Pit NW of LOFT	Field inspection and employee interviews	Eliminate	New Site identification determined this site was not an Inactive Waste Site. Personal interviews and site photographs indicate that only construction debris (i.e. non-hazardous materials) were disposed of in this pit.
New site	None	TSF Burn Pit II SW of the TSF-05 Injection Well	Field inspection and employee interviews	Eliminate	New Site identification determined this site was not an Inactive Waste Site. Personal interviews and site photographs indicate that only construction debris (i.e. non-hazardous materials) were disposed of in this pit.
New site	None	TSF Radioactive Spills on Bear Blvd. W of TAN-607	Field inspection	Eliminate	New Site identification determined this site was not an Inactive Waste Site
New site	None	Radioactive Spill 2 mi. S of TAN on Lincoln Blvd.	Field inspection and employee interviews	Eliminate	New Site identification determined this site was not an Inactive Waste Site
New site	None	Sand Piles S of TSF and SW of WRRTF	Field inspection and employee interviews	Eliminate	New Site identification determined this site was not an Inactive Waste Site
New site	None	WRRTF Transite Area	Field inspection	Eliminate	New Site identification determined this site was not an Inactive Waste Site
New site	None	Broken Pipe in Berm E of TAN-633	Field inspection	Eliminate	New Site identification determined this site was not an Inactive Waste Site
New site	None	Buried Asbestos behind the Hanger at SMC	Field inspection	Eliminate	New Site identification determined this site was not an Inactive Waste Site

Table B-3. Contaminant screening process for New Site, LOFT-12, LOFT North Transformer Yard PCB Spill and Soil Site.

		Step 1		Step 2	Step 3					Step 4		
Detected Contaminants	Source concentration (mg/kg or pCi/g)	Background concentration (mg/kg or pCi/g)	Is the maximum concentration greater than background value?	Is the chemical an essential nutrient?	Organic risk factor (%)	Inorganic risk factor (%)	Organic hazard factor (%)	Inorganic hazard factor (%)	Chemical comprises > 1% of the risk/hazard factor?	Region III soil residential RBC (mg/kg)	Is maximum concentration greater than RBC?	Site COPC?
Aroclor-1260	1.9	NA	NA	No	100.00%	----	No Tox	----	Yes	0.083	Yes	Yes

Source: IEDMS.
"NA" in Step 1 indicates that a background value is not available.
"----" in Step 3 indicates that the contaminant evaluated does not correspond with the analyses (organic, inorganic) as stated in the column heading.
"N/A" in Step 3 indicates that the contaminant is not evaluated since it has already been screened out in Step 1 and/or Step 2 or because it is a radionuclide.
"No Tox" indicates that a toxicity value (slope factor or reference dose) is not available.
"No RBC" indicates that an EPA Region III risk-based concentration based on residential soil ingestion is not available
"Yes (NT)" indicates that this contaminant does not have toxicity data and will be further evaluated.

Table B-4. Contaminant screening process for OU 1-03, TSF-03, TSF Burn Pit.

		Step 1		Step 2	Step 3					Step 4		
Detected Contaminants	Source concentration (mg/kg or pCi/g)	Background concentration (mg/kg or pCi/g)	Is the maximum concentration greater than background value?	Is the chemical an essential nutrient?	Organic risk factor (%)	Inorganic risk factor (%)	Organic hazard factor (%)	Inorganic hazard factor (%)	Chemical comprises > 1% of the risk/hazard factor?	Region III soil residential RBC (mg/kg)	Is maximum concentration greater than RBC?	Site COPC?
Acenaphthene	2.3	NA	NA	No	No Tox	—	2.64%	—	Yes	4700	No	No
Anthracene	0.45	NA	NA	No	No Tox	—	0.10%	—	No	23000	No	No
Benzo(a)anthracene	0.5	NA	NA	No	97.04%	—	No Tox	—	Yes	0.88	No	No
2-Butanone	0.032	NA	NA	No	No Tox	—	0.01%	—	No	47000	No	No
Chrysene	0.6	NA	NA	No	1.16%	—	No Tox	—	Yes	88	No	No
Dibenzofuran	4.5	NA	NA	No	No Tox	—	77.35%	—	Yes	310	No	No
Fluoranthene	2.7	NA	NA	No	No Tox	—	4.64%	—	Yes	3100	No	No
Fluorene	0.52	NA	NA	No	No Tox	—	0.89%	—	No	3100	No	No
2-Methylnaphthalene	10.3	NA	NA	No	No Tox	—	No Tox	—	No	No RBC	No RBC	Yes (NT)
2-Methylphenol	0.049	NA	NA	No	No Tox	—	0.07%	—	No	3900	No	No
Naphthalene	7.8	NA	NA	No	No Tox	—	13.41%	—	Yes	3100	No	No
Phenanthrene	8.7	NA	NA	No	No Tox	—	No Tox	—	No	No RBC	No RBC	Yes (NT)
Tetrachloroethylene	0.13	NA	NA	No	1.80%	—	0.89%	—	Yes	12	No	No
Chromium	174	50	Yes	No	—	100.00%	—	21.48%	Yes	390	No	No
Lead	2820	23	Yes	No	—	No Tox	—	No Tox	No	400	Yes	Yes (NT)
Mercury	10.9	0.074	Yes	No	—	No Tox	—	78.52%	Yes	23	No	No
Cs-137	0.072	1.28	No	No	—	—	—	—	N/A	No RBC	No RBC	No
U-234	0.5	1.95	No	No	—	—	—	—	N/A	No RBC	No RBC	No
U-238	0.6	1.85	No	No	—	—	—	—	N/A	No RBC	No RBC	No

Source: IEDMS. Semivolatiles were assumed to be the same as those sampled for WRRTF-01.
"NA" in Step 1 indicates that a background value is not available.
"—" in Step 3 indicates that the contaminant evaluated does not correspond with the analysis (organic, inorganic) as stated in the column heading.
"N/A" in Step 3 indicates that the contaminant is not evaluated since it has already been screened out in Step 1 and/or Step 2 or because it is a radionuclide.
"No Tox" indicates that a toxicity value (slope factor or reference dose) is not available.
"No RBC" indicates that an EPA Region III risk-based concentration based on residential soil ingestion is not available
"Yes (NT)" indicates that this contaminant does not have toxicity data and will be further evaluated.

Table B-5. Contaminant screening process for OU 1-05, TSF-06: Area 1, Soil NE of Turntable.

		Step 1		Step 2	Step 3					Step 4		
Detected Contaminants	Source concentration (mg/kg or pCi/g)	Background concentration (mg/kg or pCi/g)	Is the maximum concentration greater than background value?	Is the chemical an essential nutrient?	Organic risk factor (%)	Inorganic risk factor (%)	Organic hazard factor (%)	Inorganic hazard factor (%)	Chemical comprises > 1% of the risk/hazard factor?	Region III soil residential RBC (mg/kg)	Is maximum concentration greater than RBC?	Site COPC?
Mercury	9.4	0.074	Yes	No	—	No Tox	—	100.00%	Yes	23	No	No
Co-60	4.1	NA	NA	No		—	—	—	N/A	No RBC	No RBC	Yes
Cs-137	31.5	1.28	Yes	No	—	—	—	—	N/A	No RBC	No RBC	Yes
K-40	22	32	No	No	—	—	—	—	N/A	No RBC	No RBC	No
Th-232	17	2.1	Yes	No	—	—	—	—	N/A	No RBC	No RBC	Yes
U-238	19	1.85	Yes	No	—	—	—	—	N/A	No RBC	No RBC	Yes

Source: IEDMS.
"NA" in Step 1 indicates that a background value is not available.
"—" in Step 3 indicates that the contaminant evaluated does not correspond with the analyses (organic, inorganic) as stated in the column heading.
"N/A" in Step 3 indicates that the contaminant is not evaluated since it has already been screened out in Step 1 and/or Step 2 or because it is a radionuclide.
"No Tox" indicates that a toxicity value (slope factor or reference dose) is not available.
"No RBC" indicates that an EPA Region III risk-based concentration based on residential soil ingestion is not available
"Yes (NT)" indicates that this contaminant does not have toxicity data and will be further evaluated.

Table B-6. Contaminant screening process for OU 1-05, TSF-06: Area 3, TAN-781 Pond.

		Step 1		Step 2	Step 3					Step 4		
Detected Contaminants	Source concentration (mg/kg or pCi/g)	Background concentration (mg/kg or pCi/g)	Is the maximum concentration greater than background value?	Is the chemical an essential nutrient?	Organic risk factor (%)	Inorganic risk factor (%)	Organic hazard factor (%)	Inorganic hazard factor (%)	Chemical comprises > 1% of the risk/hazard factor?	Region III soil residential RBC (mg/kg)	Is maximum concentration greater than RBC?	Site COPC?
Am-241	0.15	0.019	Yes	No	—	—	—	—	N/A	No RBC	No RBC	Yes
Cs-137	0.772	1.28	No	No	—	—	—	—	N/A	No RBC	No RBC	No

Source: IEDMS.

"NA" in Step 1 indicates that a background value is not available.

"—" in Step 3 indicates that the contaminant evaluated does not correspond with the analyses (organic, inorganic) as stated in the column heading.

"N/A" in Step 3 indicates that the contaminant is not evaluated since it has already been screened out in Step 1 and/or Step 2 or because it is a radionuclide.

"No Tox" indicates that a toxicity value (slope factor or reference dose) is not available.

"No RBC" indicates that an EPA Region III risk-based concentration based on residential soil ingestion is not available

"Yes (NT)" indicates that this contaminant does not have toxicity data and will be further evaluated.

Table B-7. Contaminant screening process for OU 1-05, TSF-06: Area 5, Radioactive Soil Berm.

		Step 1		Step 2	Step 3					Step 4		
Detected Contaminants	Source concentration (mg/kg or pCi/g)	Background concentration (mg/kg or pCi/g)	Is the maximum concentration greater than background value?	Is the chemical an essential nutrient?	Organic risk factor (%)	Inorganic risk factor (%)	Organic hazard factor (%)	Inorganic hazard factor (%)	Chemical comprises > 1% of the risk/hazard factor?	Region III soil residential RBC (mg/kg)	Is maximum concentration greater than RBC?	Site COPC?
Barium	214	440	No	No	—	N/A	—	N/A	No	5500	No	No
Cadmium	2.3	3.7	No	No	—	N/A	—	N/A	No	39	No	No
Chromium	28.3	50	No	No	—	N/A	—	N/A	No	390	No	No
Lead	33.1	23	Yes	No	—	No Tox	—	No Tox	No	400	No	No
Mercury	8.7	0.074	Yes	No	—	No Tox	—	100.00%	Yes	23	No	No
Co-60	0.153	NA	NA	No	—	—	—	—	N/A	No RBC	No RBC	Yes
Cs-137	13.4	1.28	Yes	No	—	—	—	—	N/A	No RBC	No RBC	Yes

Source: IEDMS.

"NA" in Step 1 indicates that a background value is not available.

"—" in Step 3 indicates that the contaminant evaluated does not correspond with the analyses (organic, inorganic) as stated in the column heading.

"N/A" in Step 3 indicates that the contaminant is not evaluated since it has already been screened out in Step 1 and/or Step 2 or because it is a radionuclide.

"No Tox" indicates that a toxicity value (slope factor or reference dose) is not available.

"No RBC" indicates that an EPA Region III risk-based concentration based on residential soil ingestion is not available

"Yes (NT)" indicates that this contaminant does not have toxicity data and will be further evaluated.

Table B-8. Contaminant screening process for OU 1-05, TSF-06: Area 7, Soil Box Storage.

		Step 1		Step 2	Step 3					Step 4		
Detected Contaminants	Source concentration (mg/kg or pCi/g)	Background concentration (mg/kg or pCi/g)	Is the maximum concentration greater than background value?	Is the chemical an essential nutrient?	Organic risk factor (%)	Inorganic risk factor (%)	Organic hazard factor (%)	Inorganic hazard factor (%)	Chemical comprises > 1% of the risk/hazard factor?	Region III soil residential RBC (mg/kg)	Is maximum concentration greater than RBC?	Site COPC?
Barium	188	440	No	No	—	N/A	—	N/A	No	5500	No	No
Cadmium	2.2	3.7	No	No	—	N/A	—	N/A	No	39	No	No
Chromium	23.5	50	No	No	—	N/A	—	N/A	No	390	No	No
Lead	50.4	23	Yes	No	—	No Tox	—	No Tox	No	400	No	No
Co-60	0.12	NA	NA	No	—	—	—	—	N/A	No RBC	No RBC	Yes
Cs-134	0.1	NA	NA	No	—	—	—	—	N/A	No RBC	No RBC	Yes
Cs-137	2.48	1.28	Yes	No	—	—	—	—	N/A	No RBC	No RBC	Yes

Source: IEDMS.

"NA" in Step 1 indicates that a background value is not available.

"—" in Step 3 indicates that the contaminant evaluated does not correspond with the analyses (organic, inorganic) as stated in the column heading.

"N/A" in Step 3 indicates that the contaminant is not evaluated since it has already been screened out in Step 1 and/or Step 2 or because it is a radionuclide.

"No Tox" indicates that a toxicity value (slope factor or reference dose) is not available.

"No RBC" indicates that an EPA Region III risk-based concentration based on residential soil ingestion is not available

"Yes (NT)" indicates that this contaminant does not have toxicity data and will be further evaluated.

Table B-9. Contaminant screening process for OU 1-05, TSF-06: Area 8, Cask Storage Pad (includes TSF-29 Pre-1958 Pond).

		Step 1		Step 2	Step 3					Step 4		
Detected Contaminants	Source concentration (mg/kg or pCi/g)	Background concentration (mg/kg or pCi/g)	Is the maximum concentration greater than background value?	Is the chemical an essential nutrient?	Organic risk factor (%)	Inorganic risk factor (%)	Organic hazard factor (%)	Inorganic hazard factor (%)	Chemical comprises > 1% of the risk/hazard factor?	Region III soil residential RBC (mg/kg)	Is maximum concentration greater than RBC?	Site COPC?
Co-60	0.15	NA	NA	No	—	—	—	—	N/A	No RBC	No RBC	Yes
Cs-134	0.11	NA	NA	No	—	—	—	—	N/A	No RBC	No RBC	Yes
Cs-137	7.3	1.28	Yes	No	—	—	—	—	N/A	No RBC	No RBC	Yes
Sr-90	3.3	0.76	Yes	No	—	—	—	—	N/A	No RBC	No RBC	Yes

Source: IEDMS.
"NA" in Step 1 indicates that a background value is not available.
"—" in Step 3 indicates that the contaminant evaluated does not correspond with the analyses (organic, inorganic) as stated in the column heading.
"N/A" in Step 3 indicates that the contaminant is not evaluated since it has already been screened out in Step 1 and/or Step 2 or because it is a radionuclide.
"No Tox" indicates that a toxicity value (slope factor or reference dose) is not available.
"No RBC" indicates that an EPA Region III risk-based concentration based on residential soil ingestion is not available
"Yes (NT)" indicates that this contaminant does not have toxicity data and will be further evaluated.

Table B-10. Contaminant screening process for OU 1-05, TSF-06: Area 9, NE Corner Soil Contamination.

		Step 1		Step 2	Step 3					Step 4		
Detected Contaminants	Source concentration (mg/kg or pCi/g)	Background concentration (mg/kg or pCi/g)	Is the maximum concentration greater than background value?	Is the chemical an essential nutrient?	Organic risk factor (%)	Inorganic risk factor (%)	Organic hazard factor (%)	Inorganic hazard factor (%)	Chemical comprises > 1% of the risk/hazard factor?	Region III soil residential RBC (mg/kg)	Is maximum concentration greater than RBC?	Site COPC?
Cs-137	4.1	1.28	Yes	No	—	—	—	—	N/A	No RBC	No RBC	Yes

Source: IEDMS.
"NA" in Step 1 indicates that a background value is not available.
"—" in Step 3 indicates that the contaminant evaluated does not correspond with the analyses (organic, inorganic) as stated in the column heading.
"N/A" in Step 3 indicates that the contaminant is not evaluated since it has already been screened out in Step 1 and/or Step 2 or because it is a radionuclide.
"No Tox" indicates that a toxicity value (slope factor or reference dose) is not available.
"No RBC" indicates that an EPA Region III risk-based concentration based on residential soil ingestion is not available
"Yes (NT)" indicates that this contaminant does not have toxicity data and will be further evaluated.

Table B-11. Contaminant screening process for OU 1 05, TSF-06: Area 10, Reactor Vessel Burial Site.

		Step 1		Step 2	Step 3					Step 4		
Detected Contaminants	Source concentration (mg/kg or pCi/g)	Background concentration (mg/kg or pCi/g)	Is the maximum concentration greater than background value?	Is the chemical an essential nutrient?	Organic risk factor (%)	Inorganic risk factor (%)	Organic hazard factor (%)	Inorganic hazard factor (%)	Chemical comprises > 1% of the risk/hazard factor?	Region III soil residential RBC (mg/kg)	Is maximum concentration greater than RBC?	Site COPC?
Barium	260	440	No	No	—	N/A	—	N/A	No	5500	No	No
Cadmium	2.8	3.7	No	No	—	N/A	—	N/A	No	39	No	No
Chromium	29.5	50	No	No	—	N/A	—	N/A	No	390	No	No
Cs-137	0.685	1.28	No	No	—	—	—	—	N/A	No RBC	No RBC	No

Source: IEDMS.

"NA" in Step 1 indicates that a background value is not available.

"—" in Step 3 indicates that the contaminant evaluated does not correspond with the analyses (organic, inorganic) as stated in the column heading.

"N/A" in Step 3 indicates that the contaminant is not evaluated since it has already been screened out in Step 1 and/or Step 2 or because it is a radionuclide.

"No Tox" indicates that a toxicity value (slope factor or reference dose) is not available.

"No RBC" indicates that an EPA Region III risk-based concentration based on residential soil ingestion is not available

"Yes (NT)" indicates that this contaminant does not have toxicity data and will be further evaluated.

Table B-12. Contaminant screening process for OU 1-05, TSF-06: Area 11, TSF-06 Ditch.

		Step 1		Step 2	Step 3					Step 4		
Detected Contaminants	Source concentration (mg/kg or pCi/g)	Background concentration (mg/kg or pCi/g)	Is the maximum concentration greater than background value?	Is the chemical an essential nutrient?	Organic risk factor (%)	Inorganic risk factor (%)	Organic hazard factor (%)	Inorganic hazard factor (%)	Chemical comprises > 1% of the risk/hazard factor?	Region III soil residential RBC (mg/kg)	Is maximum concentration greater than RBC?	Site COPC?
Co-60	0.089	NA	NA	No	—	—	—	—	N/A	No RBC	No RBC	Yes
Cs-137	92	1.28	Yes	No	—	—	—	—	N/A	No RBC	No RBC	Yes
Eu-154	0.3	NA	NA	No	—	—	—	—	N/A	No RBC	No RBC	Yes

Source: IEDMS.
"NA" in Step 1 indicates that a background value is not available.
"—" in Step 3 indicates that the contaminant evaluated does not correspond with the analyses (organic, inorganic) as stated in the column heading.
"N/A" in Step 3 indicates that the contaminant is not evaluated since it has already been screened out in Step 1 and/or Step 2 or because it is a radionuclide.
"No Tox" indicates that a toxicity value (slope factor or reference dose) is not available.
"No RBC" indicates that an EPA Region III risk-based concentration based on residential soil ingestion is not available
"Yes (NT)" indicates that this contaminant does not have toxicity data and will be further evaluated.

Table B-13. Contaminant screening process for OU 1-05, TSF-06: Area B, Soil South of Turntable.

		Step 1		Step 2	Step 3					Step 4		
Detected Contaminants	Source concentration (mg/kg or pCi/g)	Background concentration (mg/kg or pCi/g)	Is the maximum concentration greater than background value?	Is the chemical an essential nutrient?	Organic risk factor (%)	Inorganic risk factor (%)	Organic hazard factor (%)	Inorganic hazard factor (%)	Chemical comprises > 1% of the risk/hazard factor?	Region III soil residential RBC (mg/kg)	Is maximum concentration greater than RBC?	Site COPC?
Co-60	0.185	NA	NA	No	—	—	—	—	N/A	No RBC	No RBC	Yes
Cs-137	150	1.28	Yes	No	—	—	—	—	N/A	No RBC	No RBC	Yes

Source: IEDMS.

"NA" in Step 1 indicates that a background value is not available.

"—" in Step 3 indicates that the contaminant evaluated does not correspond with the analyses (organic, inorganic) as stated in the column heading.

"N/A" in Step 3 indicates that the contaminant is not evaluated since it has already been screened out in Step 1 and/or Step 2 or because it is a radionuclide.

"No Tox" indicates that a toxicity value (slope factor or reference dose) is not available.

"No RBC" indicates that an EPA Region III risk-based concentration based on residential soil ingestion is not available

"Yes (NT)" indicates that this contaminant does not have toxicity data and will be further evaluated.

Table B-14. Contaminant screening process for OU 1-06, TSF-07, TSF Disposal Pond.

		Step 1		Step 2	Step 3					Step 4		
Detected Contaminants	Source concentration (mg/kg or pCi/g)	Background concentration (mg/kg or pCi/g)	Is the maximum concentration greater than background value?	Is the chemical an essential nutrient?	Organic risk factor (%)	Inorganic risk factor (%)	Organic hazard factor (%)	Inorganic hazard factor (%)	Chemical comprises > 1% of the risk/hazard factor?	Region III soil residential RBC (mg/kg)	Is maximum concentration greater than RBC?	Site COPC?
Acetone	0.24	NA	NA	No	No Tox	----	0.01%	----	No	7800	No	No
Aroclor-1254	0.67	NA	NA	No	25.32%	----	99.23%	----	Yes	1.6	No	No
Aroclor-1260	1.7	NA	NA	No	64.25%	----	No Tox	----	Yes	0.083	Yes	Yes
Benzo(a)anthracene	0.23	NA	NA	No	0.82%	----	No Tox	----	No	0.88	No	No
Benzo(a)pyrene	0.21	NA	NA	No	7.52%	----	No Tox	----	Yes	0.088	Yes	Yes
Benzo(b)fluoranthene	0.3	NA	NA	No	1.07%	----	No Tox	----	Yes	0.88	No	No
Benzo(g,h,i)perylene	0.23	NA	NA	No	0.01%	----	No Tox	----	No	No RBC	No RBC	No
bis(2-Ethylhexyl)phthalate	3.9	NA	NA	No	0.27%	----	0.58%	----	No	46	No	No
2-Butanone	0.099	NA	NA	No	No Tox	----	0.00%	----	No	47000	No	No
Carbon disulfide	0.005	NA	NA	No	No Tox	----	0.01%	----	No	7800	No	No
Chloroform	0.018	NA	NA	No	0.01%	----	0.01%	----	No	100	No	No
Chloromethane	0.01	NA	NA	No	0.00%	----	No Tox	----	No	49	No	No
Chrysene	0.24	NA	NA	No	0.01%	----	No Tox	----	No	88	No	No
1,4-Dichlorobenzene	0.009	NA	NA	No	0.00%	----	0.00%	----	No	27	No	No
Dichlorodifluoromethane	0.012	NA	NA	No	No Tox	----	0.00%	----	No	16000	No	No
Di-n-octylphthalate	0.71	NA	NA	No	No Tox	----	0.11%	----	No	1600	No	No
Ethylbenzene	0.012	NA	NA	No	No Tox	----	0.00%	----	No	7800	No	No
Fluoranthene	0.34	NA	NA	No	No Tox	----	0.03%	----	No	3100	No	No
Indeno(1,2,3-cd)pyrene	0.2	NA	NA	No	0.72%	----	No Tox	----	No	0.88	No	No
Methylene chloride	0.011	NA	NA	No	0.00%	----	0.00%	----	No	85	No	No
n-Propylbenzene	0.014	NA	NA	No	No Tox	----	No Tox	----	No	No RBC	No RBC	Yes (NT)
Phenanthrene	0.17	NA	NA	No	No Tox	----	No Tox	----	No	No RBC	No RBC	Yes (NT)
Propionitrile	0.02	NA	NA	No	No Tox	----	No Tox	----	No	No RBC	No RBC	Yes (NT)
Pyrene	0.35	NA	NA	No	No Tox	----	0.03%	----	No	2300	No	No
Tetrahydrofuran	0.022	NA	NA	No	No Tox	----	No Tox	----	No	No RBC	No RBC	Yes (NT)
Toluene	0.07	NA	NA	No	No Tox	----	0.00%	----	No	16000	No	No
1,1,1-Trichloroethane	0.043	NA	NA	No	No Tox	----	0.00%	----	No	7000	No	No
1,2,4-Trimethylbenzene	0.007	NA	NA	No	No Tox	----	0.00%	----	No	3900	No	No
Vinyl Acetate	0.003	NA	NA	No	No Tox	----	0.00%	----	No	78000	No	No
Xylene	0.012	NA	NA	No	No Tox	----	0.00%	----	No	160000	No	No
Aluminum	34000	24000	Yes	No	----	No Tox	----	0.03%	No	78000	No	No
Antimony	27.4	7.4	Yes	No	----	No Tox	----	0.06%	No	31	No	No
Arsenic	49.2	7.4	Yes	No	----	4.53%	----	0.14%	Yes	0.43	Yes	Yes
Barium	9740	440	Yes	No	----	No Tox	----	58.85%	Yes	5500	Yes	Yes
Beryllium	2.2	3	No	No	----	N/A	----	N/A	No	0.15	Yes	No
Cadmium	14.9	3.7	Yes	No	----	0.58%	----	0.01%	No	39	No	No
Calcium	199000	39000	Yes	Yes	----	N/A	----	N/A	No	No RBC	No RBC	No
Chromium	150	50	Yes	No	----	38.66%	----	0.03%	Yes	390	No	No
Chromium VI	31.6	NA	NA	No	----	56.24%	----	0.01%	Yes	390	No	No
Cobalt	19.9	18	Yes	No	----	No Tox	----	0.06%	No	4700	No	No
Copper	1090	32	Yes	No	----	No Tox	----	0.02%	No	3100	No	No
Cyanide	2.93	NA	NA	No	----	No Tox	----	0.00%	No	1600	No	No
Iron	40300	35000	Yes	Yes	----	N/A	----	N/A	No	23000	Yes	No
Lead	338	23	Yes	No	----	No Tox	----	No Tox	No	400	No	No
Magnesium	17800	19000	No	Yes	----	N/A	----	N/A	No	No RBC	No RBC	No
Manganese	695	700	No	No	----	N/A	----	N/A	No	390	Yes	No
Mercury	4040	0.074	Yes	No	----	No Tox	----	40.73%	Yes	23	Yes	Yes
Nickel	78.2	55	Yes	No	----	No Tox	----	0.00%	No	1600	No	No
Potassium	8470	6300	Yes	Yes	----	N/A	----	N/A	No	No RBC	No RBC	No
Selenium	42.2	0.34	Yes	No	----	No Tox	----	0.01%	No	390	No	No
Silver	166	6	Yes	No	----	No Tox	----	0.03%	No	390	No	No
Sodium	1110	520	Yes	Yes	----	N/A	----	N/A	No	No RBC	No RBC	No
Strontium	597	NA	NA	No	----	No Tox	----	0.00%	No	47000	No	No
Sulfide	4270	NA	NA	No	----	No Tox	----	No Tox	No	230	Yes	Yes (NT)
Thallium	48.2	0.68	Yes	No	----	No Tox	----	No Tox	No	No RBC	No RBC	Yes (NT)
Tin	1150	NA	NA	No	----	No Tox	----	0.00%	No	47000	No	No
Vanadium	94.5	70	Yes	No	----	No Tox	----	0.01%	No	550	No	No
Zinc	2400	220	Yes	No	----	No Tox	----	0.01%	No	23000	No	No
Am-241	0.021	0.019	Yes	No	----	----	----	----	N/A	No RBC	No RBC	Yes
Co-60	87.7	NA	NA	No	----	----	----	----	N/A	No RBC	No RBC	Yes
Cs-134	0.0131	NA	NA	No	----	----	----	----	N/A	No RBC	No RBC	Yes
Cs-137	135	1.28	Yes	No	----	----	----	----	N/A	No RBC	No RBC	Yes
H-3	1.2	NA	NA	No	----	----	----	----	N/A	No RBC	No RBC	Yes
K-40	21.1	32	No	No	----	----	----	----	N/A	No RBC	No RBC	No
Ra-226	4.54	NA	NA	No	----	----	----	----	N/A	No RBC	No RBC	Yes
Sr-90	0.76	0.76	No	No	----	----	----	----	N/A	No RBC	No RBC	No
Th-234	1.8	NA	NA	No	----	----	----	----	N/A	No RBC	No RBC	Yes

Source: IEDMS. Results for Am-241, Eu-155, Sr-90, and H-3 are from Track 1 Summary Report.
"NA" in Step 1 indicates that a background value is not available.
"----" in Step 3 indicates that the contaminant evaluated does not correspond with the analyses (organic, inorganic) as stated in the column heading.
"N/A" in Step 3 indicates that the contaminant is not evaluated since it has already been screened out in Step and/or Step 2 or because it is a radionuclide.
"No Tox" indicates that a toxicity value (slope factor or reference dose) is not available.
"No RBC" indicates that an EPA Region III risk-based concentration based on residential soil ingestion is not available
"Yes (NT)" indicates that this contaminant does not have toxicity data and will be further evaluated.

Table B-15. Contaminant screening process for OU 1-06, TSF-08, TSF HTRE III Mercury Spill Site 13B.

		Step 1		Step 2	Step 3					Step 4		
Detected Contaminants	Source concentration (mg/kg or pCi/g)	Background concentration (mg/kg or pCi/g)	Is the maximum concentration greater than background value?	Is the chemical an essential nutrient?	Organic risk factor (%)	Inorganic risk factor (%)	Organic hazard factor (%)	Inorganic hazard factor (%)	Chemical comprises > 1% of the risk/hazard factor?	Region III soil residential RBC (mg/kg)	Is maximum concentration greater than RBC?	Site COPC?
Mercury	73.7	0.074	Yes	No	—	No Tox	—	100.00%	Yes	23	Yes	Yes
Co-60	0.086	NA	NA	No	—	—	—	—	N/A	No RBC	No RBC	Yes
Cs-137	2.61	1.28	Yes	No	—	—	—	—	N/A	No RBC	No RBC	Yes

Source: Preliminary Scoping Track 2 Summary Report for Operable Unit 1-08.
"NA" in Step 1 indicates that a background value is not available.
"—" in Step 3 indicates that the contaminant evaluated does not correspond with the analyses (organic, inorganic) as stated in the column heading.
"N/A" in Step 3 indicates that the contaminant is not evaluated since it has already been screened out in Step 1 and/or Step 2 or because it is a radionuclide.
"No Tox" indicates that a toxicity value (slope factor or reference dose) is not available.
"No RBC" indicates that an EPA Region III risk-based concentration based on residential soil ingestion is not available
"Yes (NT)" indicates that this contaminant does not have toxicity data and will be further evaluated.

Table B-16. Contaminant screening process for OU 1-05, TSF-09/18, TSF Intermediate-Level (Radioactive) Waste Disposal System and Contaminated Tank SE of Tank V-3.

		Step 1		Step 2	Step 3					Step 4		
Detected Contaminants	Source concentration (mg/kg or pCi/g)	Background concentration (mg/kg or pCi/g)	Is the maximum concentration greater than background value?	Is the chemical an essential nutrient?	Organic risk factor (%)	Inorganic risk factor (%)	Organic hazard factor (%)	Inorganic hazard factor (%)	Chemical comprises > 1% of the risk/hazard factor?	Region III soil residential RBC (mg/kg)	Is maximum concentration greater than RBC?	Site COPC?
Acetone	0.041	NA	NA	No	No Tox	—	0.00%	—	No	7800	No	No
Aroclor-1254	1.085	NA	NA	No	100.00%	—	100.00%	—	Yes	1.6	No	No
Trichloroethene	0.009	NA	NA	No	0.00%	—	0.00%	—	No	58	No	No
Aluminum	16300	24000	No	No	—	N/A	—	N/A	No	78000	No	No
Arsenic	9.9	7.4	Yes	No	—	100.00%	—	95.93%	Yes	0.43	Yes	No[1]
Barium	253	440	No	No	—	N/A	—	N/A	No	5500	No	No
Beryllium	1.8	3	No	No	—	N/A	—	N/A	No	0.15	Yes	No
Cadmium	2.7	3.7	No	No	—	N/A	—	N/A	No	39	No	No
Calcium	148000	39000	Yes	Yes	—	N/A	—	N/A	No	No RBC	No RBC	No
Chromium	32.2	50	No	No	—	N/A	—	N/A	No	390	No	No
Cobalt	7	18	No	No	—	N/A	—	N/A	No	4700	No	No
Copper	22	32	No	No	—	N/A	—	N/A	No	3100	No	No
Iron	19100	35000	No	Yes	—	N/A	—	N/A	No	23000	No	No
Lead	27.9	23	Yes	No	—	No Tox	—	No Tox	No	400	No	No
Magnesium	12900	19000	No	Yes	—	N/A	—	N/A	No	No RBC	No RBC	No
Manganese	410	700	No	No	—	N/A	—	N/A	No	390	Yes	No
Mercury	0.12	0.074	Yes	No	—	No Tox	—	4.07%	Yes	23	No	No
Nickel	30	55	No	No	—	N/A	—	N/A	No	1600	No	No
Potassium	3800	6300	No	Yes	—	N/A	—	N/A	No	No RBC	No RBC	No
Silver	1.1	6	No	No	—	N/A	—	N/A	No	390	No	No
Sodium	660	520	Yes	Yes	—	N/A	—	N/A	No	No RBC	No RBC	No
Vanadium	48	70	No	No	—	N/A	—	N/A	No	550	No	No
Zinc	101	220	No	No	—	N/A	—	N/A	No	23000	No	No
Co-60	110.42	NA	NA	No	—	—	—	—	N/A	No RBC	No RBC	Yes
Cs-134	0.2	NA	NA	No	—	—	—	—	N/A	No RBC	No RBC	Yes
Cs-137	40149	1.28	Yes	No	—	—	—	—	N/A	No RBC	No RBC	Yes
Eu-154	2.51	NA	NA	No	—	—	—	—	N/A	No RBC	No RBC	Yes
K-40	18	32	No	No	—	—	—	—	N/A	No RBC	No RBC	No

Source: IEDMS and Track 2 Summary Report for OU 1-05.

1. See Section 5.2 for discussion of elimination of contaminant as COPC.

"NA" in Step 1 indicates that a background value is not available.

"—" in Step 3 indicates that the contaminant evaluated does not correspond with the analyses (organic, inorganic) as stated in the column heading.

"N/A" in Step 3 indicates that the contaminant is not evaluated since it has already been screened out in Step 1 and/or Step 2 or because it is a radionuclide.

"No Tox" indicates that a toxicity value (slope factor or reference dose) is not available.

"No RBC" indicates that an EPA Region III risk-based concentration based on residential soil ingestion is not available

"Yes (NT)" indicates that this contaminant does not have toxicity data and will be further evaluated.

Table B-17. Contaminant screening process for OU 1-05, TSF-10, TSF Drainage Pond.

		Step 1		Step 2	Step 3					Step 4		
Detected Contaminants	Source concentration (mg/kg or pCi/g)	Background concentration (mg/kg or pCi/g)	Is the maximum concentration greater than background value?	Is the chemical an essential nutrient?	Organic risk factor (%)	Inorganic risk factor (%)	Organic hazard factor (%)	Inorganic hazard factor (%)	Chemical comprises > 1% of the risk/hazard factor?	Region III soil residential RBC (mg/kg)	Is maximum concentration greater than RBC?	Site COPC?
Aluminum	30400	24000	Yes	No	—	No Tox	—	0.04%	No	78000	No	No
Arsenic	17	7.4	Yes	No	—	8.42%	—	0.08%	Yes	0.43	Yes	No[1]
Barium	349	440	No	No	—	N/A	—	N/A	No	5500	No	No
Beryllium	2.2	3	No	No	—	N/A	—	N/A	No	0.15	Yes	No
Cadmium	2.7	3.7	No	No	—	N/A	—	N/A	No	39	No	No
Calcium	88200	39000	Yes	Yes	—	N/A	—	N/A	No	No RBC	No RBC	No
Chromium	66	50	Yes	No	—	91.58%	—	0.02%	Yes	390	No	No
Cobalt	14	18	No	No	—	N/A	—	N/A	No	4700	No	No
Copper	36	32	Yes	No	—	No Tox	—	0.00%	No	3100	No	No
Iron	34700	35000	No	Yes	—	N/A	—	N/A	No	23000	Yes	No
Lead	34	23	Yes	No	—	No Tox	—	No Tox	No	400	No	No
Magnesium	14600	19000	No	Yes	—	N/A	—	N/A	No	No RBC	No RBC	No
Manganese	953	700	Yes	No	—	No Tox	—	99.85%	Yes	390	Yes	Yes
Mercury	0.08	0.074	Yes	No	—	No Tox	—	0.00%	No	23	No	No
Nickel	47	55	No	No	—	N/A	—	N/A	No	1600	No	No
Potassium	5000	6300	No	Yes	—	N/A	—	N/A	No	No RBC	No RBC	No
Selenium	12	0.34	Yes	No	—	No Tox	—	0.00%	No	390	No	No
Silver	1.4	6	No	No	—	N/A	—	N/A	No	390	No	No
Sodium	854	520	Yes	Yes	—	N/A	—	N/A	No	No RBC	No RBC	No
Vanadium	61	70	No	No	—	N/A	—	N/A	No	550	No	No
Zinc	157	220	No	No	—	N/A	—	N/A	No	23000	No	No
Cs-137	6.3	1.28	Yes	No	—	—	—	—	N/A	No RBC	No RBC	Yes
K-40	18	32	No	No	—	—	—	—	N/A	No RBC	No RBC	No

Sources: Track 2 Summary Report for TSF-10.

1. See Section 5.2 for discussion of elimination of contaminant as COPC.

"NA" in Step 1 indicates that a background value is not available.

"—" in Step 3 indicates that the contaminant evaluated does not correspond with the analyses (organic, inorganic) as stated in the column heading.

"N/A" in Step 3 indicates that the contaminant is not evaluated since it has already been screened out in Step 1 and/or Step 2 or because it is a radionuclide.

"No Tox" indicates that a toxicity value (slope factor or reference dose) is not available.

"No RBC" indicates that an EPA Region III risk-based concentration based on residential soil ingestion is not available

"Yes (NT)" indicates that this contaminant does not have toxicity data and will be further evaluated.

Table B-18. Contaminant screening process for OU 1-01, TSF-11, TSF Three Clarifier Pits East of TAN-604.

		Step 1		Step 2	Step 3					Step 4		
Detected Contaminants	Source concentration (mg/kg or pCi/g)	Background concentration (mg/kg or pCi/g)	Is the maximum concentration greater than background value?	Is the chemical an essential nutrient?	Organic risk factor (%)	Inorganic risk factor (%)	Organic hazard factor (%)	Inorganic hazard factor (%)	Chemical comprises > 1% of the risk/hazard factor?	Region III soil residential RBC (mg/kg)	Is maximum concentration greater than RBC?	Site COPC?
Acetone	0.009	NA	NA	No	—	—	—	—	No	7800	No	No
Ethylbenzene	0.002	NA	NA	No	No Tox	—	75.47%	—	Yes	7800	No	No
Xylene	0.013	NA	NA	No	No Tox	—	24.53%	—	Yes	160000	No	No
Am-241	0.2	0.019	Yes	No	—	—	—	—	N/A	No RBC	No RBC	Yes
U-234	1.03	1.95	No	No	—	—	—	—	N/A	No RBC	No RBC	No
U-238	0.95	1.85	No	No	—	—	—	—	N/A	No RBC	No RBC	No

Source: Preliminary Scoping Track 2 Summary Report for Operable Unit 1-08.
"NA" in Step 1 indicates that a background value is not available.
"—" in Step 3 indicates that the contaminant evaluated does not correspond with the analyses (organic, inorganic) as stated in the column heading.
"N/A" in Step 3 indicates that the contaminant is not evaluated since it has already been screened out in Step 1 and/or Step 2 or because it is a radionuclide.
"No Tox" indicates that a toxicity value (slope factor or reference dose) is not available.
"No RBC" indicates that an EPA Region III risk-based concentration based on residential soil ingestion is not available
"Yes (NT)" indicates that this contaminant does not have toxicity data and will be further evaluated.

Table B-19. Contaminant screening process for OU 1-05, TSF-21, TSF IET Valve Pit.

		Step 1		Step 2	Step 3					Step 4		
Detected Contaminants	Source concentration (mg/kg or pCi/g)	Background concentration (mg/kg or pCi/g)	Is the maximum concentration greater than background value?	Is the chemical an essential nutrient?	Organic risk factor (%)	Inorganic risk factor (%)	Organic hazard factor (%)	Inorganic hazard factor (%)	Chemical comprises > 1% of the risk/hazard factor?	Region III soil residential RBC (mg/kg)	Is maximum concentration greater than RBC?	Site COPC?
Acetone	0.004	NA	NA	No	No Tox	—	1.03%	—	Yes	7800	No	No
Di-n-butylphthalate	0.044	NA	NA	No	No Tox		11.34%	—	Yes	7800	No	No
Methylene Chloride	0.004	NA	NA	No	12.00%	—	1.72%	—	Yes	85	No	No
Trichloroethene	0.02	NA	NA	No	88.00%	—	85.91%	—	Yes	58	No	No
Barium	260	440	No	No	—	N/A	—	N/A	No	5500	No	No
Cadmium	2.4	3.7	No	No	—	N/A	—	N/A	No	39	No	No
Chromium	25.1	50	No	No	—	N/A	—	N/A	No	390	No	No
Lead	28.6	23	Yes	No	—	No Tox	—	No Tox	No	400	No	No
Mercury	0.12	0.074	Yes	No	—	No Tox	—	100.00%	Yes	23	No	No
Co-60	1.73	NA	NA	No	—	—	—	—	N/A	No RBC	No RBC	Yes
Cs-137	821	1.28	Yes	No	—	—	—	—	N/A	No RBC	No RBC	Yes

Sources: IEDMS.
"NA" in Step 1 indicates that a background value is not available.
"—" in Step 3 indicates that the contaminant evaluated does not correspond with the analyses (organic, inorganic) as stated in the column heading.
"N/A" in Step 3 indicates that the contaminant is not evaluated since it has already been screened out in Step 1 and/or Step 2 or because it is a radionuclide.
"No Tox" indicates that a toxicity value (slope factor or reference dose) is not available.
"No RBC" indicates that an EPA Region III risk-based concentration based on residential soil ingestion is not available
"Yes (NT)" indicates that this contaminant does not have toxicity data and will be further evaluated.

Table B-20. Contaminant screening process for OU 1-08, TSF-22, TSF Railroad Turntable.

		Step 1		Step 2	Step 3					Step 4		
Detected Contaminants	Source concentration (mg/kg or pCi/g)	Background concentration (mg/kg or pCi/g)	Is the maximum concentration greater than background value?	Is the chemical an essential nutrient?	Organic risk factor (%)	Inorganic risk factor (%)	Organic hazard factor (%)	Inorganic hazard factor (%)	Chemical comprises > 1% of the risk/hazard factor?	Region III soil residential RBC (mg/kg)	Is maximum concentration greater than RBC?	Site COPC?
Mercury	4.4	0.074	Yes	No	—	No Tox	—	100.00%	Yes	23	No	No
Co-60	0.12	NA	NA	No	—	—	—	—	N/A	No RBC	No RBC	Yes
Cs-137	3.18	1.28	Yes	No	—	—	—	—	N/A	No RBC	No RBC	Yes

Sources: Track 2 Decision Document for TSF-22.
"NA" in Step 1 indicates that a background value is not available.
"—" in Step 3 indicates that the contaminant evaluated does not correspond with the analyses (organic, inorganic) as stated in the column heading.
"N/A" in Step 3 indicates that the contaminant is not evaluated since it has already been screened out in Step 1 and/or Step 2 or because it is a radionuclide.
"No Tox" indicates that a toxicity value (slope factor or reference dose) is not available.
"No RBC" indicates that an EPA Region III risk-based concentration based on residential soil ingestion is not available
"Yes (NT)" indicates that this contaminant does not have toxicity data and will be further evaluated.

Table B-21. Contaminant screening process for OU 1-05, TSF-26, TSF PM/2A Tanks.

		Step 1		Step 2	Step 3					Step 4		
Detected Contaminants	Source concentration (mg/kg or pCi/g)	Background concentration (mg/kg or pCi/g)	Is the maximum concentration greater than background value?	Is the chemical an essential nutrient?	Organic risk factor (%)	Inorganic risk factor (%)	Organic hazard factor (%)	Inorganic hazard factor (%)	Chemical comprises > 1% of the risk/hazard factor?	Region III soil residential RBC (mg/kg)	Is maximum concentration greater than RBC?	Site COPC?
Di-n-butylphthalate	0.063	NA	NA	No	No Tox	—	16.73%	—	Yes	7800	No	No
Di-n-octylphthalate	0.062	NA	NA	No	No Tox	—	82.34%	—	Yes	1600	No	No
Diethylphthalate	0.028	NA	NA	No	No Tox	—	0.93%	—	No	63000	No	No
Tributylphosphate	0.003	NA	NA	No	No Tox	—	No Tox	—	No	No RBC	No RBC	No[1]
Aluminum	18600	24000	No	No	—	N/A	—	N/A	No	78000	No	No
Antimony	7.4	7.4	Yes	No	—	No Tox	—	21.18%	Yes	31	No	No
Arsenic	20	7.4	Yes	No	—	100.00%	—	76.31%	Yes	0.43	Yes	No[2]
Barium	286	440	No	No	—	N/A	—	N/A	No	5500	No	No
Beryllium	2	3	No	No	—	N/A	—	N/A	No	0.15	Yes	No
Cadmium	3.5	3.7	No	No	—	N/A	—	N/A	No	39	No	No
Calcium	183000	39000	Yes	Yes	—	N/A	—	N/A	No	No RBC	No RBC	No
Chromium	44.5	50	No	No	—	N/A	—	N/A	No	390	No	No
Cobalt	9.5	18	No	No	—	N/A	—	N/A	No	4700	No	No
Copper	28	32	No	No	—	N/A	—	N/A	No	3100	No	No
Iron	24200	35000	No	Yes	—	N/A	—	N/A	No	23000	Yes	No
Lead	30.7	23	Yes	No	—	No Tox	—	No Tox	No	400	No	No
Magnesium	13800	19000	No	Yes	—	N/A	—	N/A	No	No RBC	No RBC	No
Manganese	637	700	No	No	—	N/A	—	N/A	No	390	Yes	No
Mercury	0.06	0.074	No	No	—	N/A	—	N/A	No	23	No	No
Nickel	39	55	No	No	—	N/A	—	N/A	No	1600	No	No
Potassium	4400	6300	No	Yes	—	N/A	—	N/A	No	No RBC	No RBC	No
Selenium	11	0.34	Yes	No	—	No Tox	—	2.52%	Yes	390	No	No
Silver	1.9	6	No	No	—	N/A	—	N/A	No	390	No	No
Sodium	824	520	Yes	Yes	—	N/A	—	N/A	No	No RBC	No RBC	No
Vanadium	59	70	No	No	—	N/A	—	N/A	No	550	No	No
Zinc	131	220	No	No	—	N/A	—	N/A	No	23000	No	No
Co-60	3.6	NA	NA	No	—	—	—	—	N/A	No RBC	No RBC	Yes
Cs-137	4400	1.28	Yes	No	—	—	—	—	N/A	No RBC	No RBC	Yes
K-40	18	32	No	No	—	—	—	—	N/A	No RBC	No RBC	No

Source: IEDMS and Track 2 Summary Report for OU 1-05.
1. Eliminated because of low concentration/low frequency of detection.
2. See Section 5.2 for discussion of elimination of contaminant as COPC.
"NA" in Step 1 indicates that a background value is not available.
"—" in Step 3 indicates that the contaminant evaluated does not correspond with the analyses (organic, inorganic) as stated in the column heading.
"N/A" in Step 3 indicates that the contaminant is not evaluated since it has already been screened out in Step 1 and/or Step 2 or because it is a radionuclide.
"No Tox" indicates that a toxicity value (slope factor or reference dose) is not available.
"No RBC" indicates that an EPA Region III risk-based concentration based on residential soil ingestion is not available
"Yes (NT)" indicates that this contaminant does not have toxicity data and will be further evaluated.

Table B-22. Contaminant screening process for OU 1-10, TSF-27, TSF Paint Shop Drain.

		Step 1		Step 2	Step 3					Step 4		
Detected Contaminants	Source concentration (mg/kg or pCi/g)	Background concentration (mg/kg or pCi/g)	Is the maximum concentration greater than background value?	Is the chemical an essential nutrient?	Organic risk factor (%)	Inorganic risk factor (%)	Organic hazard factor (%)	Inorganic hazard factor (%)	Chemical comprises > 1% of the risk/hazard factor?	Region III soil residential RBC (mg/kg)	Is maximum concentration greater than RBC?	Site COPC?
Acetone	0.015	NA	NA	No	No Tox	—	0.02%	—	No	7800	No	No
Benzene	0.002	NA	NA	No	0.03%	—	No Tox	—	No	22	No	No
bis(2-Ethylhexyl)phthalate	12	NA	NA	No	97.03%	—	98.81%	—	Yes	46	No	No
Butylbenzylphthalate	0.077	NA	NA	No	No Tox	—	0.06%	—	No	16000	No	No
Chlorobenzene	0.002	NA	NA	No	No Tox	—	0.06%	—	No	1600	No	No
1,1-Dichloroethane	0.002	NA	NA	No	No Tox	—	0.00%	—	No	7800	No	No
1,1-Dichloroethene	0.004	NA	NA	No	2.77%	—	0.07%	—	Yes	1.1	No	No
1,2-Dichloroethane	0.001	NA	NA	No	0.05%	—	No Tox	—	No	7	No	No
Di-n-butylphthalate	0.087	NA	NA	No	No Tox	—	0.14%	—	No	7800	No	No
Di-n-octylphthalate	0.079	NA	NA	No	No Tox	—	0.65%	—	No	1600	No	No
Methylene chloride	0.006	NA	NA	No	0.03%	—	0.02%	—	No	85	No	No
Tetrachloroethylene	0.002	NA	NA	No	0.06%	—	0.03%	—	No	12	No	No
Toluene	0.011	NA	NA	No	No Tox	—	0.01%	—	No	16000	No	No
1,1,1-Trichloroethane	0.003	NA	NA	No	No Tox	—	0.01%	—	No	7000	No	No
Trichloroethene	0.004	NA	NA	No	0.03%	—	0.11%	—	No	58	No	No
Xylene	0.004	NA	NA	No	No Tox	—	0.00%	—	No	160000	No	No
Aluminum	18100	24000	No	No	—	N/A	—	N/A	No	78000	No	No
Antimony	2.3	7.4	No	No	—	N/A	—	N/A	No	31	No	No
Arsenic	13.1	7.4	Yes	No	—	85.71%	—	0.87%	Yes	0.43	Yes	No[1]
Barium	709	440	Yes	No	—	No Tox	—	98.51%	Yes	5500	No	No
Beryllium	2.8	3	No	No	—	N/A	—	N/A	No	0.15	Yes	No
Cadmium	5.2	3.7	Yes	No	—	14.29%	—	0.10%	Yes	39	No	No
Calcium	137000	39000	Yes	Yes	—	N/A	—	N/A	No	No RBC	No RBC	No
Chromium	41.7	50	No	No	—	N/A	—	N/A	No	390	No	No
Cobalt	16.9	18	No	No	—	N/A	—	N/A	No	4700	No	No
Copper	40.1	32	Yes	No	—	No Tox	—	0.02%	No	3100	No	No
Iron	23200	35000	No	Yes	—	N/A	—	N/A	No	23000	Yes	No
Lead	32.4	23	Yes	No	—	No Tox	—	No Tox	No	400	No	No
Magnesium	14400	19000	No	Yes	—	N/A	—	N/A	No	No RBC	No RBC	No
Manganese	522	700	No	No	—	N/A	—	N/A	No	390	Yes	No
Mercury	1.9	0.074	Yes	No	—	No Tox	—	0.44%	No	23	No	No
Nickel	47.2	55	No	No	—	N/A	—	N/A	No	1600	No	No
Potassium	3520	6300	No	Yes	—	N/A	—	N/A	No	No RBC	No RBC	No
Selenium	0.39	0.34	Yes	No	—	No Tox	—	0.00%	No	390	No	No
Sodium	584	520	Yes	Yes	—	N/A	—	N/A	No	No RBC	No RBC	No
Thallium	0.39	0.68	No	No	—	N/A	—	N/A	No	No RBC	No RBC	No
Tin	944.2	NA	NA	No	—	No Tox	—	0.03%	No	47000	No	No
Vanadium	47.8	70	No	No	—	N/A	—	N/A	No	550	No	No
Zinc	349	220	Yes	No	—	No Tox	—	0.02%	No	23000	No	No
Cs-137	0.104	1.28	No	No	—	—	—	—	N/A	No RBC	No RBC	No
U-234	1.7	1.95	No	No	—	—	—	—	N/A	No RBC	No RBC	No
U-238	1.6	1.85	No	No	—	—	—	—	N/A	No RBC	No RBC	No

Source: IEDMS.

1. See Section 5.2 for discussion of elimination of contaminant as COPC.

"NA" in Step 1 indicates that a background value is not available.

"—" in Step 3 indicates that the contaminant evaluated does not correspond with the analyses (organic, inorganic) as stated in the column heading.

"N/A" in Step 3 indicates that the contaminant is not evaluated since it has already been screened out in Step 1 and/or Step 2 or because it is a radionuclide.

"No Tox" indicates that a toxicity value (slope factor or reference dose) is not available.

"No RBC" indicates that an EPA Region III risk-based concentration based on residential soil ingestion is not available

"Yes (NT)" indicates that this contaminant does not have toxicity data and will be further evaluated.

Table B-23. Contaminant screening process for OU 1-04, TSF-29, TSF Acid Ponds (Post-1958 and Active).

		Step 1		Step 2	Step 3					Step 4		
Detected Contaminants	Source concentration (mg/kg or pCi/g)	Background concentration (mg/kg or pCi/g)	Is the maximum concentration greater than background value?	Is the chemical an essential nutrient?	Organic risk factor (%)	Inorganic risk factor (%)	Organic hazard factor (%)	Inorganic hazard factor (%)	Chemical comprises > 1% of the risk/hazard factor?	Region III soil residential RBC (mg/kg)	Is maximum concentration greater than RBC?	Site COPC?
Am-241	0.13	0.019	Yes	No	----	----	----	----	N/A	No RBC	No RBC	Yes
Cm-242	0.02	NA	NA	No	----	----	----	----	N/A	No RBC	No RBC	Yes
Cm-243/244	0.05	NA	NA	No	----	----	----	----	N/A	No RBC	No RBC	Yes
Cs-137	16.1	1.28	Yes	No	----	----	----	----	N/A	No RBC	No RBC	Yes
Np-237	0.04	NA	NA	No	----	----	----	----	N/A	No RBC	No RBC	Yes
Th-230	0.9	1.88	No	No	----	----	----	----	N/A	No RBC	No RBC	No
Th-232	0.4	2.1	No	No	----	----	----	----	N/A	No RBC	No RBC	No
U-234	1.5	1.95	No	No	----	----	----	----	N/A	No RBC	No RBC	No
U-235	0.08	NA	NA	No	----	----	----	----	N/A	No RBC	No RBC	Yes
U-238	1.1	1.85	No	No	----	----	----	----	N/A	No RBC	No RBC	No

Source: Preliminary Scoping Track 2 summary Report for the Test Area North Operable Unit 1-04: Caustic Contamination Sites.
"NA" in Step 1 indicates that a background value is not available.
"----" in Step 3 indicates that the contaminant evaluated does not correspond with the analyses (organic, inorganic) as stated in the column heading.
"N/A" in Step 3 indicates that the contaminant is not evaluated since it has already been screened out in Step 1 and/or Step 2 or because it is a radionuclide.
"No Tox" indicates that a toxicity value (slope factor or reference dose) is not available.
"No RBC" indicates that an EPA Region III risk-based concentration based on residential soil ingestion is not available
"Yes (NT)" indicates that this contaminant does not have toxicity data and will be further evaluated.

Table B-24. Contaminant screening process for OU 1-09, TSF-36, TSF TAN-603 French Drain.

		Step 1		Step 2	Step 3					Step 4		
Detected Contaminants	Source concentration (mg/kg or pCi/g)	Background concentration (mg/kg or pCi/g)	Is the maximum concentration greater than background value?	Is the chemical an essential nutrient?	Organic risk factor (%)	Inorganic risk factor (%)	Organic hazard factor (%)	Inorganic hazard factor (%)	Chemical comprises > 1% of the risk/hazard factor?	Region III soil residential RBC (mg/kg)	Is maximum concentration greater than RBC?	Site COPC?
Benzo(a)pyrene	0.11	NA	NA	No	99.67%	—	No Tox	—	Yes	0.088	Yes	Yes
Benzo(g,h,i)perylene	0.36	NA	NA	No	0.33%	—	No Tox	—	No	No RBC	No RBC	No
Pyrene	0.17	NA	NA	No	No Tox	—	100.00%	—	Yes	2300	No	No
TPH-diesel	174	NA	NA	No	No Tox	—	No Tox	—	No	No RBC	No RBC	Yes (NT)
Aluminum	5650	24000	No	No	—	N/A	—	N/A	No	78000	No	No
Arsenic	11.6	7.4	Yes	No	—	100.00%	—	100.00%	Yes	0.43	Yes	No[1]
Barium	100	440	No	No	—	N/A	—	N/A	No	5500	No	No
Beryllium	2.8	3	No	No	—	N/A	—	N/A	No	0.15	Yes	No
Calcium	194000	39000	Yes	Yes	—	N/A	—	N/A	No	No RBC	No RBC	No
Chromium	15.5	50	No	No	—	N/A	—	N/A	No	390	No	No
Cobalt	6.2	18	No	No	—	N/A	—	N/A	No	4700	No	No
Copper	19.4	32	No	No	—	N/A	—	N/A	No	3100	No	No
Iron	12300	35000	No	Yes	—	N/A	—	N/A	No	23000	No	No
Lead	14.4	23	No	No	—	N/A	—	N/A	No	400	No	No
Magnesium	16800	19000	No	Yes	—	N/A	—	N/A	No	No RBC	No RBC	No
Manganese	346	700	No	No	—	N/A	—	N/A	No	390	No	No
Nickel	31.8	55	No	No	—	N/A	—	N/A	No	1600	No	No
Potassium	1070	6300	No	Yes	—	N/A	—	N/A	No	No RBC	No RBC	No
Sodium	462	520	No	Yes	—	N/A	—	N/A	No	No RBC	No RBC	No
Vanadium	34.5	70	No	No	—	N/A	—	N/A	No	550	No	No
Zinc	81.7	220	No	No	—	N/A	—	N/A	No	23000	No	No
Cs-137	0.46	1.28	No	No	—	—	—	—	N/A	No RBC	No RBC	No

Source: IEDMS.

1. See Section 5.2 for discussion of elimination of contaminant as COPC.

"NA" in Step 1 indicates that a background value is not available.

"—" in Step 3 indicates that the contaminant evaluated does not correspond with the analyses (organic, inorganic) as stated in the column heading.

"N/A" in Step 3 indicates that the contaminant is not evaluated since it has already been screened out in Step 1 and/or Step 2 or because it is a radionuclide.

"No Tox" indicates that a toxicity value (slope factor or reference dose) is not available.

"No RBC" indicates that an EPA Region III risk-based concentration based on residential soil ingestion is not available

"Yes (NT)" indicates that this contaminant does not have toxicity data and will be further evaluated.

Table B-25. Contaminant screening process for OU 1-09, TSF-37, TSF Contaminated Well Water Spill.

		Step 1		Step 2	Step 3					Step 4		
Detected Contaminants	Source concentration (mg/kg or pCi/g)	Background concentration (mg/kg or pCi/g)	Is the maximum concentration greater than background value?	Is the chemical an essential nutrient?	Organic risk factor (%)	Inorganic risk factor (%)	Organic hazard factor (%)	Inorganic hazard factor (%)	Chemical comprises > 1% of the risk/hazard factor?	Region III soil residential RBC (mg/kg)	Is maximum concentration greater than RBC?	Site COPC?
Acetone	0.01	NA	NA	No	No Tox	—	85.71%	—	Yes	7800	No	No
Methylene chloride	0.001	NA	NA	No	100.00%	—	14.29%	—	Yes	85	No	No
Cs-137	0.78	1.28	No	No	—	—	—	—	N/A	No RBC	No RBC	No
H-3	1.8	NA	NA	No	—	—	—	—	N/A	No RBC	No RBC	Yes
Sr-90	1.2	0.76	Yes	No	—	—	—	—	N/A	No RBC	No RBC	Yes
U-234	1	1.95	No	No	—	—	—	—	N/A	No RBC	No RBC	No
U-238	1	1.85	No	No	—	—	—	—	N/A	No RBC	No RBC	No

Source: IEDMS.
"NA" in Step 1 indicates that a background value is not available.
"—" in Step 3 indicates that the contaminant evaluated does not correspond with the analyses (organic, inorganic) as stated in the column heading.
"N/A" in Step 3 indicates that the contaminant is not evaluated since it has already been screened out in Step 1 and/or Step 2 or because it is a radionuclide.
"No Tox" indicates that a toxicity value (slope factor or reference dose) is not available.
"No RBC" indicates that an EPA Region III risk-based concentration based on residential soil ingestion is not available
"Yes (NT)" indicates that this contaminant does not have toxicity data and will be further evaluated.

Table B-26. Contaminant screening process for OU 1-03, TSF-38, TSF Bottle Site.

		Step 1		Step 2	Step 3					Step 4		
Detected Contaminants	Source concentration (mg/kg or pCi/g)	Background concentration (mg/kg or pCi/g)	Is the maximum concentration greater than background value?	Is the chemical an essential nutrient?	Organic risk factor (%)	Inorganic risk factor (%)	Organic hazard factor (%)	Inorganic hazard factor (%)	Chemical comprises > 1% of the risk/hazard factor?	Region III soil residential RBC (mg/kg)	Is maximum concentration greater than RBC?	Site COPC?
Acetone	0.14	NA	NA	No	No Tox	—	32.23%	—	Yes	7800	No	No
Di-n-butylphthalate	0.051	NA	NA	No	No Tox	—	11.74%	—	Yes	7800	No	No
Methylene chloride	0.016	NA	NA	No	100.00%	—	6.14%	—	Yes	85	No	No
Naphthalene	0.04	NA	NA	No	No Tox	—	23.02%	—	Yes	3100	No	No
Phenol	0.7	NA	NA	No	No Tox	—	26.86%	—	Yes	47000	No	No
Aluminum	15800	24000	No	No	—	N/A	—	N/A	No	78000	No	No
Arsenic	6.8	7.4	No	No	—	N/A	—	N/A	No	0.43	Yes	No
Barium	202	440	No	No	—	N/A	—	N/A	No	5500	No	No
Beryllium	2.4	3	No	No	—	N/A	—	N/A	No	0.15	Yes	No
Cadmium	1.8	3.7	No	No	—	N/A	—	N/A	No	39	No	No
Calcium	152000	39000	Yes	Yes	—	N/A	—	N/A	No	No RBC	No RBC	No
Chromium	37.5	50	No	No	—	N/A	—	N/A	No	390	No	No
Cobalt	8.5	18	No	No	—	N/A	—	N/A	No	4700	No	No
Copper	18.5	32	No	No	—	N/A	—	N/A	No	3100	No	No
Iron	16400	35000	No	Yes	—	N/A	—	N/A	No	23000	No	No
Lead	15	23	No	No	—	N/A	—	N/A	No	400	No	No
Magnesium	21400	19000	Yes	Yes	—	N/A	—	N/A	No	No RBC	No RBC	No
Manganese	341	700	No	No	—	N/A	—	N/A	No	390	No	No
Nickel	33.1	55	No	No	—	N/A	—	N/A	No	1600	No	No
Potassium	4060	6300	No	Yes	—	N/A	—	N/A	No	No RBC	No RBC	No
Sodium	241	520	No	Yes	—	N/A	—	N/A	No	No RBC	No RBC	No
Vanadium	22.6	70	No	No	—	N/A	—	N/A	No	550	No	No
Zinc	128	220	No	No	—	N/A	—	N/A	No	23000	No	No

Source: IEDMS.
"NA" in Step 1 indicates that a background value is not available.
"—" in Step 3 indicates that the contaminant evaluated does not correspond with the analyses (organic, inorganic) as stated in the column heading.
"N/A" in Step 3 indicates that the contaminant is not evaluated since it has already been screened out in Step 1 and/or Step 2 or because it is a radionuclide.
"No Tox" indicates that a toxicity value (slope factor or reference dose) is not available.
"No RBC" indicates that an EPA Region III risk-based concentration based on residential soil ingestion is not available
"Yes (NT)" indicates that this contaminant does not have toxicity data and will be further evaluated.

Table B-27. Contaminant screening process for OU 1-03, WRRTF-01, WRRTF Burn Pits I, II, III, and IV.

		Step 1		Step 2	Step 3					Step 4		
Detected Contaminants	Source concentration (mg/kg or pCi/g)	Background concentration (mg/kg or pCi/g)	Is the maximum concentration greater than background value?	Is the chemical an essential nutrient?	Organic risk factor (%)	Inorganic risk factor (%)	Organic hazard factor (%)	Inorganic hazard factor (%)	Chemical comprises > 1% of the risk/hazard factor?	Region III soil residential RBC (mg/kg)	Is maximum concentration greater than RBC?	Site COPC?
Acenaphthene	2.3	NA	NA	No	No Tox	—	2.49%	—	Yes	4700	No	No
Acetone	4.2	NA	NA	No	No Tox	—	2.73%	—	Yes	7800	No	No
Anthracene	0.45	NA	NA	No	No Tox	—	0.10%	—	No	23000	No	No
Benzo(a)anthracene	0.5	NA	NA	No	97.44%	—	No Tox	—	Yes	0.88	No	No
2-Butanone	0.032	NA	NA	No	No Tox	—	0.01%	—	No	47000	No	No
Chrysene	0.6	NA	NA	No	1.17%	—	No Tox	—	Yes	88	No	No
Dibenzofuran	4.5	NA	NA	No	No Tox	—	73.01%	—	Yes	310	No	No
Ethylbenzene	0.9	NA	NA	No	No Tox	—	0.58%	—	No	7800	No	No
Fluoranthene	2.7	NA	NA	No	No Tox	—	4.38%	—	Yes	3100	No	No
Fluorene	0.52	NA	NA	No	No Tox	—	0.84%	—	No	3100	No	No
2-Hexanone	0.019	NA	NA	No	No Tox	—	No Tox	—	No	No RBC	No RBC	Yes (NT)
Methylene Chloride	0.013	NA	NA	No	0.03%	—	0.01%	—	No	85	No	No
2-Methylnaphthalene	10.3	NA	NA	No	No Tox	—	No Tox	—	No	No RBC	No RBC	Yes (NT)
4-Methyl-2-Pentanone	0.1	NA	NA	No	No Tox	—	0.29%	—	No	No RBC	No RBC	No
2-Methylphenol	0.049	NA	NA	No	No Tox	—	0.06%	—	No	3900	No	No
Naphthalene	7.8	NA	NA	No	No Tox	—	12.65%	—	Yes	3100	No	No
Phenanthrene	8.7	NA	NA	No	No Tox	—	No Tox	—	No	No RBC	No RBC	Yes (NT)
Tetrachloroethylene	0.056	NA	NA	No	0.78%	—	0.36%	—	No	12	No	No
Toluene	0.24	NA	NA	No	No Tox	—	0.08%	—	No	16000	No	No
1,1,1-Trichloroethane	0.033	NA	NA	No	No Tox	—	0.02%	—	No	7000	No	No
Trichloroethene	0.2	NA	NA	No	0.59%	—	2.16%	—	Yes	58	No	No
Xylene	6.6	NA	NA	No	No Tox	—	0.21%	—	No	160000	No	No
Chromium	543	50	Yes	No	—	100.00%	—	34.08%	Yes	390	Yes	Yes
Lead	2350	23	Yes	No	—	No Tox	—	No Tox	No	400	Yes	Yes (NT)
Mercury	18	0.074	Yes	No	—	No Tox	—	65.92%	Yes	23	No	No
Co-60	0.175	NA	NA	No	—	—	—	—	N/A	No RBC	No RBC	Yes
Cs-137	1.13	1.28	No	No	—	—	—	—	N/A	No RBC	No RBC	No
Pu-239/240	7.9	0.19	Yes	No	—	—	—	—	N/A	No RBC	No RBC	Yes
U-234	1	1.95	No	No	—	—	—	—	N/A	No RBC	No RBC	No
U-238	1.2	1.85	No	No	—	—	—	—	N/A	No RBC	No RBC	No

Source: IEDMS.
"NA" in Step 1 indicates that a background value is not available.
"—" in Step 3 indicates that the contaminant evaluated does not correspond with the analyses (organic, inorganic) as stated in the column heading.
"N/A" in Step 3 indicates that the contaminant is not evaluated since it has already been screened out in Step 1 and/or Step 2 or because it is a radionuclide.
"No Tox" indicates that a toxicity value (slope factor or reference dose) is not available.
"No RBC" indicates that an EPA Region III risk-based concentration based on residential soil ingestion is not available
"Yes (NT)" indicates that this contaminant does not have toxicity data and will be further evaluated.

Table B-28A. Contaminant screening process for OU 1-05, WRRTF-04, WRRTF Radioactive Liquid Waste Tank.

		Step 1		Step 2	Step 3					Step 4		
Detected Contaminants	Source concentration (mg/kg or pCi/g)	Background concentration (mg/kg or pCi/g)	Is the maximum concentration greater than background value?	Is the chemical an essential nutrient?	Organic risk factor (%)	Inorganic risk factor (%)	Organic hazard factor (%)	Inorganic hazard factor (%)	Chemical comprises > 1% of the risk/hazard factor?	Region III soil residential RBC (mg/kg)	Is maximum concentration greater than RBC?	Site COPC?
Barium	210	440	No	No	—	N/A	—	N/A	No	5500	No	No
Cadmium	2.3	3.7	No	No		N/A	—	N/A	No	39	No	No
Chromium	25.4	50	No	No	—	N/A	—	N/A	No	390	No	No
Lead	34.3	23	Yes	No	—	No Tox	—	No Tox	No	400	No	No

Sources: IEDMS.

"NA" in Step 1 indicates that a background value is not available.

"—" in Step 3 indicates that the contaminant evaluated does not correspond with the analyses (organic, inorganic) as stated in the column heading.

"N/A" in Step 3 indicates that the contaminant is not evaluated since it has already been screened out in Step 1 and/or Step 2 or because it is a radionuclide.

"No Tox" indicates that a toxicity value (slope factor or reference dose) is not available.

"No RBC" indicates that an EPA Region III risk-based concentration based on residential soil ingestion is not available

"Yes (NT)" indicates that this contaminant does not have toxicity data and will be further evaluated.

Table B-28B. Contaminant screening process for OU 1-08, WRRTF-05, WRRTF Injection Well.

Chemicals	Maximum concentration (mg/L or pCi/L)	Step 1: Background concentration (mg/L or pCi/L)	Step 1: Is the maximum concentration greater than background value?	Step 2: Is the chemical an essential nutrient?	Step 3: Organic risk factor (%)	Step 3: Inorganic risk factor (%)	Step 3: Organic hazard factor (%)	Step 3: Inorganic hazard factor (%)	Step 3: Chemical comprises > 1% of the risk/hazard factor?	Site COPC?
Acenaphthene	0.0006	NA	NA	No	No Tox	----	8.37%	----	Yes	Yes
Benzene	0.0003	0.005	No	No	N/A	----	N/A	----	No	No
Benzo(a)anthracene	0.00022	NA	NA	No	7.04%	----	No Tox	----	Yes	Yes
Benzo(a)pyrene	0.00027	0.0002	Yes	No	86.34%	----	No Tox	----	Yes	Yes
Benzo(b)fluoranthene	0.00019	NA	NA	No	6.08%	----	No Tox	----	Yes	Yes
Benzo(k)fluoranthene	0.00017	NA	NA	No	0.54%	----	No Tox	----	No	No
sec-Butylbenzene	0.0002	NA	NA	No	No Tox	----	No Tox	----	No	Yes (NT)
tert-Butylbenzene	0.0001	NA	NA	No	No Tox	----	No Tox	----	No	Yes (NT)
Di-n-octylphthalate	0.001	NA	NA	No	No Tox	----	41.84%	----	Yes	Yes
Dichlorodifluoromethane	0.0002	NA	NA	No	No Tox	----	2.93%	----	Yes	Yes
Ethylbenzene	0.0001	0.7	No	No	N/A	----	N/A	----	No	No
Isopropylbenzene	0.0001	NA	NA	No	No Tox	----	No Tox	----	No	Yes (NT)
2-Methylnaphthalene	0.0009	NA	NA	No	No Tox	----	No Tox	----	No	Yes (NT)
n-Propylbenzene	0.0001	NA	NA	No	No Tox	----	No Tox	----	No	Yes (NT)
Naphthalene	0.002	NA	NA	No	No Tox	----	41.84%	----	Yes	Yes
Tetrachloroethylene	0.0004	0.005	No	No	N/A	----	N/A	----	No	No
Toluene	0.0006	1	No	No	N/A	----	N/A	----	No	No
Trichloroethene	0.0009	0.005	No	No	N/A	----	N/A	----	No	No
1,2,4-Trimethylbenzene	0.0003	NA	NA	No	No Tox	----	5.02%	----	Yes	Yes
1,3,5-Trimethylbenzene	0.0001	NA	NA	No	No Tox	----	No Tox	----	No	Yes (NT)
Xylene	0.0004	10	No	No	N/A	----	N/A	----	No	No

Source: IEDMS.
"NA" in Step 1 indicates that a background value is not available.
"----" in Step 3 indicates that the chemical evaluated does not correspond with the analyses (organic, inorganic, radionuclide) as stated in the column heading.
"N/A" in Step 3 indicates that the chemical is not evaluated since it has already been screened out in Step 1 and/or Step 2.
"No Tox" indicates that a toxicity value (slope factor or reference dose) is not available.
"Yes (NT)" indicates that this chemical does not have toxicity data and will be further evaluated.

Table B-29. Contaminant screening process for OU 1-08, WRRTF-13, WRRTF Fuel Spill.

		Step 1		Step 2	Step 3					Step 4		
Detected Contaminants	Source concentration (mg/kg or pCi/g)	Background concentration (mg/kg or pCi/g)	Is the maximum concentration greater than background value?	Is the chemical an essential nutrient?	Organic risk factor (%)	Inorganic risk factor (%)	Organic hazard factor (%)	Inorganic hazard factor (%)	Chemical comprises > 1% of the risk/hazard factor?	Region III soil residential RBC (mg/kg)	Is maximum concentration greater than RBC?	Site COPC?
Acenaphthene	7.3	NA	NA	No	No Tox	—	3.93%	—	Yes	4700	No	No
Anthracene	0.6	NA	NA	No	No Tox	—	0.06%	—	No	23000	No	No
bis(2-Ethylhexyl)phthalate	1.2	NA	NA	No	86.15%	—	1.94%	—	Yes	46	No	No
Di-n-butylphthalate	0.064	NA	NA	No	No Tox	—	0.02%	—	No	7800	No	No
Dibenzofuran	3.7	NA	NA	No	No Tox	—	29.90%	—	Yes	310	No	No
Ethylbenzene	4.9	NA	NA	No	No Tox	—	1.58%	—	Yes	7800	No	No
Fluoranthene	2.7	NA	NA	No	No Tox	—	2.18%	—	Yes	3100	No	No
Fluorene	12	NA	NA	No	No Tox	—	9.70%	—	Yes	3100	No	No
Methylene chloride	0.36	NA	NA	No	13.85%	—	0.19%	—	Yes	85	No	No
2-Methylnaphthalene	290	NA	NA	No	No Tox	—	No Tox	—	No	No RBC	No RBC	Yes (NT)
Naphthalene	56	NA	NA	No	No Tox	—	45.25%	—	Yes	3100	No	No
Phenanthrene	37	NA	NA	No	No Tox	—	No Tox	—	No	No RBC	No RBC	Yes (NT)
Phthalate	0.2	NA	NA	No	No Tox	—	No Tox	—	No	No RBC	No RBC	Yes (NT)
Pyrene	3.7	NA	NA	No	No Tox	—	3.99%	—	Yes	2300	No	No
TPH	35700	NA	NA	No	No Tox	—	No Tox	—	No	No RBC	No RBC	Yes (NT)
Xylene	77	NA	NA	No	No Tox	—	1.24%	—	Yes	160000	No	No

Source: IEDMS.
"NA" in Step 1 indicates that a background value is not available.
"—" in Step 3 indicates that the contaminant evaluated does not correspond with the analyses (organic, inorganic) as stated in the column heading.
"N/A" in Step 3 indicates that the contaminant is not evaluated since it has already been screened out in Step 1 and/or Step 2 or because it is a radionuclide.
"No Tox" indicates that a toxicity value (slope factor or reference dose) is not available.
"No RBC" indicates that an EPA Region III risk-based concentration based on residential soil ingestion is not available
"Yes (NT)" indicates that this contaminant does not have toxicity data and will be further evaluated.

Table B-30 Dimensions of sites evaluated in the BRA[a].

Site	Area (m^2)	Depth (m)	Volume (m^3)
LOFT-12	8.55E+01	1.52E+00	1.30E+02
TSF-06 Area 1	2.23E+04	3.05E+00	6.80E+04
TSF-06 Area 3	7.15E+02	1.52E-01	1.09E+02
TSF-06 Area 5	1.39E+02	9.14E-01	1.27E+02
TSF-06 Area 7	2.79E+03	1.52E-01	4.25E+02
TSF-06 Area 8	1.27E+03	1.52E-01	1.93E+02
TSF-06 Area 9	2.17E+02	1.52E-01	3.31E+01
TSF-06 Area 11	4.18E+02	1.52E-01	6.37E+01
TSF-06 Area B	3.83E+03	7.62E-01	2.92E+03
TSF-07	9.79E+03	3.35E+00	3.28E+04
TSF-08	7.53E+01	2.44E+00	1.83E+02
TSF-09/18	3.72E+02	1.45E+01	5.38E+03
TSF-10	2.62E+03	4.88E+00	1.28E+04
TSF-11	3.72E+00	9.14E-01	3.40E+00
TSF-21	2.23E+02	2.29E+00	5.10E+02
TSF-26	7.32E+03	1.45E+01	1.11E+04[b]
TSF-29	2.37E+03	7.62E-01	1.81E+03
TSF-22	5.91E+02	7.62E-01	4.50E+02
TSF-36	7.29E+00	9.14E-01	6.67E+00
TSF-37	7.29E+00	1.22E+00	8.89E+00
WRRTF-01	2.52E+03	6.55E+00	1.65E+04

a. These site dimensions were developed from the contaminant nature and extent discussion presented in Section 4. Only sites that are quantitatively evaluated in the BRA are shown on the table.

b. Volume equals the volume of the top 1 ft (0.305 m) of soil over the site area (78,750 ft^2 = 7,320 m^2) plus the volume of soil from 1 ft to 47.5 ft bgs (interval = 14.17 m) over the tank area (7,000 ft^2 = 650 m^2) minus the volume of the two tanks (2* 189 m^3). Therefore, the calculation is: (7320 m^2 * 0.305 m) + (650 m^2 * 14.17 m) - (2 * 189 m^3) = 11065 m^3

Table B-31. Contaminant-specific parameter values.

COPC[m]	MW (g/mole)	Half-life[b] (y)	Kd[c] (cm^3/g)	Solubility[f] (mg/L)	log Kow[f]	log Koc[f]	Air diffusivity (cm^2/s)	Henry's Law Constant[f] ($atm\text{-}m^3/mol$)	PUF
Acenaphthene	154.21	NA	0.0533	3.93E+00	3.92	1.25	5.95E-02[h]	1.90E-04	2.10E-01[i]
Aroclor-1260	370	NA	1,500[d]	8.00E-02	6.91	6.42	4.91E-02[h]	7.10E-03	3.93E-03[i]
Benzo(a)anthracene	228.30	NA	4,140	1.40E-02	5.90	6.14	4.65E-02[h]	6.60E-07	1.51E-02[i]
Benzo(b)fluoranthene	252.32	NA	1,650	1.40E-02	6.57	5.74	4.39E-02[h]	1.20E-05	6.17E-03[i]
Benzo(a)pyrene	252.32	NA	2,670	4.00E-03	6.04	5.95	4.65E-02[h]	1.40E-06	1.25E-02[i]
Dichlorodifluoromethane	120.91	NA	1.09[d]	2.80E+02	2.16	2.56	9.44E-02[h]	4.25E-01	2.19E+00[j]
cis-1,2-Dichloroethylene	96.94	NA	0.177	6.30E+03	2.09	1.77	9.98E-02[h]	7.20E-03	2.40E+00[j]
trans-1,2-Dichloroethylene	96.94	NA	0.177	6.30E+03	2.09	1.77	9.98E-02[h]	7.20E-03	2.40E+00[j]
Di-n-octylphthalate	390.57	NA	2.93E+06[d]	3.00E+00	9.20	8.99	1.51E-02	1.41E-12	1.86E-04[i]
Naphthalene	128.18	NA	3.86	3.00E+01	3.59	3.11	8.21E-02[h]	4.60E-04	3.26E-01[i]
Tetrachloroethylene	165.83	NA	0.789	2.20E+03	2.60	2.42	7.40E-02	1.31E-02	1.22E+00[j]
Trichloroethene	131.39	NA	0.4	1.10E+03	2.60	2.03	8.12E-02	9.10E-03	1.22E+00[j]
1,2,4-Trimethylbenzene	120.19	NA	11.1[d]	5.70E+01	3.78	3.57	7.10E-02	5.70E-03	2.53E-01[i]
Arsenic	74.92	NA	3	1.00E+06[g]	NA	NA	NA	NA	4.00E-02[j]
Barium	137.34	NA	50	1.00E+06[g]	NA	NA	NA	NA	3.00E-02[k]
Chromium	52.00	NA	1.2	1.00E+06[g]	NA	NA	NA	NA	1.00E-03[k]
Manganese	54.94	NA	50	1.00E+06[g]	NA	NA	NA	NA	1.90E+00[k]
Mercury	200.59	NA	100	1.00E+06[g]	NA	NA	NA	NA	9.00E-01[j]
Uranium	238.03	NA	6	1.00E+06[g]	NA	NA	NA	NA	1.40E-02[k]
Am-241	241	4.32E+02	340	1.00E+06[g]	NA	NA	NA	NA	2.20E-03[k]
Cm-242	242	4.46E-01	0[e]	1.00E+06[g]	NA	NA	NA	NA	1.30E-03[k]
Cm-243/244[a]	243	2.85E+01	0[e]	1.00E+06[g]	NA	NA	NA	NA	1.30E-03[k]
Co-60	60	5.27E+00	10	1.00E+06[g]	NA	NA	NA	NA	2.90E-01[k]
Cs-134	134	2.06E+00	500	1.00E+06[g]	NA	NA	NA	NA	4.60E-01[k]
Cs-137	137	3.02E+01	500	1.00E+06[g]	NA	NA	NA	NA	4.60E-01[j]
Eu-154	154	8.80E+00	0[e]	1.00E+06[g]	NA	NA	NA	NA	1.00E-02[j]
H-3	3	1.23E+01	0[e]	1.00E+06[g]	NA	NA	NA	NA	1.00E+00[j]
Np-237	237	2.14E+06	0[e]	1.00E+06[g]	NA	NA	NA	NA	1.10E-01[k]
Pu-239/240[a]	239	2.41E+04	22	1.00E+06[g]	NA	NA	NA	NA	4.40E-03[k]
Ra-226	226	1.60E+03	100	1.00E+06[g]	NA	NA	NA	NA	1.00E-01[k]
Sr-90	90	2.86E+01	24	1.00E+06[g]	NA	NA	NA	NA	3.00E+00[k]
Th-232	232	1.41E+10	100	1.00E+06[g]	NA	NA	NA	NA	3.90E-02[k]

Table B-31. (Continued)

COPC[m]	MW (g/mole)	Half-life[b] (y)	Kd[c] (cm^3/g)	Solubility[f] (mg/L)	log Kow[f]	log Koc[f]	Air diffusivity (cm^2/s)	Henry's Law Constant[f] ($atm\text{-}m^3/mol$)	PUF
Th-234	234	6.60E-02	100	1.00E+06[g]	NA	NA	NA	NA	3.90E-02[k]
U-234	234	2.45E+05	6	1.00E+06[g]	NA	NA	NA	NA	1.40E-02[k]
U-235	235	7.04E+08	6	1.00E+06[g]	NA	NA	NA	NA	1.40E-02[k]
U-238	238	4.47E+09	6	1.00E+06[g]	NA	NA	NA	NA	1.40E-02[k]

NA - Not applicable or not available.
a. The longer of the isotope half-lifes is used as well as that isotopes molecular weight
b. Half-life values are from HEAST 1995.
c. Kd values taken from Track 2 Guidance (DOE-ID, 1994) unless otherwise indicated.
d. Kd values were calculated from Koc values: Kd = Koc * 0.003 (DOE-ID, 1994).
e. A conservative default value of 0 cm^3/g was used for unknown Kds.
f. From Montgomery and Welkom (1990) unless otherwise indicated.
g. Values conservatively assumed to be 1.00E+06mg/L .
h. Calculated value using Lyman et al., 1982.
i. PUF calculated using method of Travis and Arms (1988).
j. Values taken from Baes et al. (1984).
k. Values taken from INEL White Paper on the Food Crop Ingestion Exposure Route (LITCO, 1996).
l. Conservative estimate.
m. Contaminants that do not have accepted toxicity values are not included in this table.

Table B-32. Soil concentrations for 0 to 0.5 ft interval by site.

COPC	TSF-11	WRRTF-01	TSF-29	TSF-06 Area 1	TSF-06 Area 3	TSF-06 Area 5	TSF-06 Area 7	TSF-06 Area 8	TSF-06 Area 9	TSF-06 Area 11	TSF-06 Area 8	TSF 09/18	TSF 10	TSF 21	TSF 26	TSF 07	TSF-08	TSF-22	TSF-36	TSF 37	LOFT-12
	Soil (0 to 0.5 ft) (mg/kg or pCi/g)																				
Acenaphthene	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Aroclor-1260	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.20E-01	—	—	—	—	—
Benzo(a)anthracene	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Benzo(b)fluoranthene	—	—	—													—	—	—	—	—	—
Benzo(a)pyrene	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.10E-01	—	—	—	—	—
Dichlorodifluoromethane	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
cis-1,2-Dichloroethylene	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
trans-1,2-Dichloroethylene	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Di-n-octylphthalate	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Naphthalene	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tetrachloroethylene	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Trichloroethene	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1,2,4-Trimethylbenzene	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Arsenic	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.45E+01	—	—	—	—	—
Barium	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.11E+02	—	—	—	—	—
Chromium	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manganese	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mercury	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.08E+00	—	—	—	—	—
Uranium	—	—	3.70E-02	4.91E+01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Am-241	—	—	1.30E-01	—	1.50E-01	—	—	—	—	—	—	—	—	—	—	2.10E-02	—	—	—	—	—
Cm-242	—	—	2.00E-02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cm-243/244	—	—	5.00E-02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Co-60	—	—	—	7.46E-01	—	1.53E-01	1.20E-01	1.50E-01	—	8.90E-02	1.85E-01	3.60E+01	—	—	5.60E+00	5.51E+01	—	1.25E-01	—	—	—
Cs-134	—	—	—	—	—	—	1.00E-01	1.10E-01	—	—	—	5.00E-02	—	—	—	1.50E-02	—	—	—	—	—
Cs-137	—	—	1.61E+01	2.09E+01	—	1.54E+01	2.48E+00	7.50E+00	4.10E+00	9.10E+01	1.50E+02	9.21E+02	6.50E+00	—	4.40E+03	5.09E+01	7.80E-01	3.1E+00	—	—	—
Pu-154	—	—	—	—	—	—	—	—	—	5.00E-01	—	1.24E+00	—	—	—	—	—	—	—	—	—
H-3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.20E+00	—	—	—	—	—
Np-237	—	—	4.00E-02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Pu-239/240	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Ra-226	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.34E+00	—	—	—	—	—
Sr-90	—	—	—	—	—	—	—	5.50E+00	—	—	—	—	—	—	—	—	—	—	—	—	—
Th-232	—	—	—	1.20E+01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Th-234	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.17E+00	—	—	—	—	—
U-234	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
U-235	—	—	8.00E-02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
U-238	—	—	—	1.68E+01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

*"—" indicates not COPC in this soil depth interval.

Table B-33. Soil concentrations for 0 to 4 ft interval by site.

COPC	Soil (0 to 4 ft) (mg/kg or pCi/g)																				
	TSF-11	WERTF-01	TSF-29	TSF-06 Area 1	TSF-06 Area 3	TSF-06 Area 5	TSF-06 Area 7	TSF-06 Area 8	TSF-06 Area 9	TSF-06 Area 11	TSF-06 Area 8	TSF-09/18	TSF-10	TSF-21	TSF-26	TSF-07	TSF-08	TSF-23	TSF-36	TSF-37	LOFT-13
Acenaphthene	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Aroclor-1260	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.30E-01	—	—	—	—	9.81E-01
Benzo(a)anthracene	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Benzo(b)fluoranthene					—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Benzo(a)pyrene	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.10E-01	—	—	—	—	—
Dichlorodifluoromethane	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
cis-1,2-Dichloroethylene	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
trans-1,2-Dichloroethylene	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Di-n-octylphthalate	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Naphthalene	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tetrachloroethylene	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Trichloroethene	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1,2,4-Trimethylbenzene	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Arsenic	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.43E+01	—	—	—	—	—
Barium	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.11E+02	—	—	—	—	—
Chromium	—	2.40E+02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manganese	—	—	—	—	—	—	—	—	—	—	—	—	4.26E+02	—	—	—	—	—	—	—	—
Mercury	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.08E+00	3.68E+01	—	—	—	—
Uranium	—	—	2.77E-02	4.98E+01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Am-241	—	—	9.75E-02	—	3.75E-02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cm-243	—	—	1.50E-02	—	—	—	—	—	—	—	—	—	—	—	—	2.10E-02	—	—	—	—	—
Cm-243/244	—	—	3.75E-02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Co-60	—	5.90E-02	—	7.46E-01	—	1.15E-01	1.50E-02	1.88E-02	—	1.11E-02	1.39E-01	3.60E+01	—	—	9.16E-01	5.51E+01	3.40E-02	9.38E-01	—	—	—
Cs-134	—	—	—	—	—	—	1.25E-02	1.38E-02	—	—	—	3.00E-02	—	—	—	1.30E-02	—	—	—	—	—
Cs-137	—	—	1.21E+04	2.00E+01	—	1.04E+01	3.60E-01	9.13E-01	5.13E-01	1.14E+01	1.13E+02	9.24E+02	3.15E+00	—	1.11E+03	5.05E+01	7.80E-01	2.39E+00	—	—	—
Eu-154	—	—	—	—	—	—	—	—	—	3.75E-02	—	1.34E+00	—	—	—	—	—	—	—	—	—
H-3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.30E+00	—	—	—	—	—
Np-237	—	—	3.00E-02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Pu-239/240	—	1.25E+00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Ra-226	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.34E+00	—	—	—	—	—
Sr-90	—	—	—	—	—	—	—	4.13E-01	—	—	—	—	—	—	—	—	—	—	—	9.00E-01	—
Th-232	—	—	—	1.30E+01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Th-234	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.17E+00	—	—	—	—	—
U-234	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
U-235	—	—	6.00E-02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
U-238	—	—	—	1.40E+01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

"—" indicates not COPC in this soil depth interval

Table B-34. Soil concentrations for 0 to 10 ft interval by site.

	Soil (0 to 10 ft) (mg/kg or pCi/g)																					
				TSP-06 Area																		
COPC	TSP-11	WRRTP-01	TSP-29	TSP-06 Area 1	TSP-06 Area 3	TSP-06 Area 5	TSP-06 Area 7	TSP-06 Area 8	TSP-06 Area 9	11	TSP-06 Area 8	TSP-06W18	TSP-10	TSP-21	TSP-26	TSP-07	TSP-08	TSP-22	TSP-36	TSP-37	LOFT-12
Acenaphthene	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Aroclor-1260	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.10E-01	—	—	—	—	6.54E-01
Benzo(a)anthracene	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Benzo(b)fluoranthene	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Benzo(a)pyrene	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.05E-01	—	—	3.30E-02	—	—
Dichlorodifluoromethane	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
cis-1,2-Dichloroethylene	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
trans-1,2-Dichloroethylene	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Di-n-octylphthalate	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Naphthalene	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tetrachloroethylene	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Trichloroethene	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1,2,4-Trimethylbenzene	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Arsenic	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.43E+01	—	—	—	—	—
Barium	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.11E+02	—	—	—	—	—
Chromium	—	2.64E+02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manganese	—	—	—	—	—	—	—	—	—	—	—	—	6.81E+02	—	—	—	—	—	—	—	—
Mercury	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.00E+00	5.90E+01	—	—	—	—
Uranium	—	—	1.11E-02	4.98E+01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Am-241	2.00E-01	—	3.90E-02	—	1.50E-02	—	—	—	—	—	—	—	—	—	—	2.10E-02	—	—	—	—	—
Cm-243	—	—	6.00E-03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cm-243/244	—	—	1.50E-02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Co-60	—	6.00E-02	—	7.46E-01	—	4.59E-02	6.00E-03	7.50E-03	—	4.45E-03	5.55E-02	3.60E+01	—	—	3.78E-01	5.51E+01	2.58E-02	2.50E-02	—	—	—
Cs-134	—	—	—	—	—	—	5.00E-03	5.50E-03	—	—	—	3.00E-02	—	—	—	1.30E-02	—	—	—	—	—
Cs-137	—	—	4.83E+00	2.09E+04	—	4.02E+00	1.24E-01	3.65E-01	2.05E-01	4.55E+00	4.56E+01	9.21E+02	1.26E+00	—	4.50E+02	5.09E+04	7.80E-01	9.54E-01	—	—	—
Eu-154	—	—	—	—	—	—	—	—	—	1.50E-02	—	1.24E+00	—	—	—	—	—	—	—	—	—
H-3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.20E+00	—	—	—	1.80E-01	—
Np-237	—	—	1.20E-02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Pu-239/240	—	1.94E+00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Ra-226	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.34E+00	—	—	—	—	—
Sr-90	—	—	—	—	—	—	—	1.65E-01	—	—	—	—	—	—	—	—	—	—	—	3.70E-01	—
Th-232	—	—	—	1.20E+01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Th-234	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.47E+00	—	—	—	—	—
U-234	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
U-235	—	—	2.40E-02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
U-238	—	—	—	1.68E+01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

"—" indicates not COPC in this soil depth interval.

Table B-35. Average concentrations (pCi/g) from 0 to 0.5 ft during period year 0 to year 25.

COPC	TSF-11	WRRTF-01	TSF-29	TSF-06 Area 1	TSF-06 Area 3	TSF-06 Area 5	TSF-06 Area 7	TSF-06 Area 8	TSF-06 Area 9	TSF-06 Area 11	TSF-06 Area B	TSF-09/18	TSF-10	TSF-21	TSF-26	TSF-07	TSF-08	TSF-22	TSF-36	TSF-37	LOFT-12
Am-241	0.00E+00	0.00E+00	1.27E-01	0.00E+00	1.47E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cm-242	0.00E+00	0.00E+00	5.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cm-243/244	0.00E+00	0.00E+00	3.75E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Co-60	0.00E+00	0.00E+00	0.00E+00	2.18E-01	0.00E+00	4.48E-02	3.51E-02	4.39E-02	0.00E+00	2.61E-02	5.42E-02	1.05E+01	0.00E+00	0.00E+00	1.05E+00	1.61E+01	0.00E+00	3.66E-02	0.00E+00	0.00E+00	0.00E+00
Cs-134	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-02	1.31E-02	0.00E+00	0.00E+00	0.00E+00	3.57E-03	0.00E+00	0.00E+00	0.00E+00	1.55E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-137	0.00E+00	0.00E+00	1.23E+01	1.59E+01	0.00E+00	1.02E+01	1.89E+00	5.55E+00	3.12E+00	6.92E+01	1.14E+02	7.01E+02	4.79E+00	0.00E+00	3.35E+03	3.87E+01	5.94E-01	2.42E+00	0.00E+00	0.00E+00	0.00E+00
Eu-154	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-01	0.00E+00	5.42E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
H-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.44E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Np-237	0.00E+00	0.00E+00	4.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Pu-239/240	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ra-226	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Th-232	0.00E+00	0.00E+00	0.00E+00	1.20E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Th-234	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
U-234	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
U-235	0.00E+00	0.00E+00	8.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
U-238	0.00E+00	0.00E+00	0.00E+00	1.68E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table B-36. Average concentration (pCi/g) from 0 to 4 ft during period year 0 to year 25.

COPC	TSF-11	WRRTF-01	TSF-29	TSF-06 Area 1	TSF-06 Area 3	TSF-06 Area 5	TSF-06 Area 7	TSF-06 Area 8	TSF-06 Area 9	TSF-06 Area 11	TSF-06 Area 15	TSF-09/18	TSF-10	TSF-21	TSF-26	TSF-07	TSF-08	TSF-22	TSF-36	TSF-37	LOFT-12
Am-241	0.00E+00	0.00E+00	9.56E-02	0.00E+00	3.68E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cm-242	0.00E+00	0.00E+00	3.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cm-243/244	0.00E+00	0.00E+00	2.81E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Co-60	0.00E+00	1.46E-02	0.00E+00	2.18E-01	0.00E+00	3.36E-02	4.39E-03	5.50E-03	0.00E+00	3.25E-03	4.06E-02	1.05E+01	0.00E+00	0.00E+00	2.68E-01	1.61E+01	9.95E-03	2.75E-01	0.00E+00	0.00E+00	0.00E+00
Cs-134	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-03	1.64E-03	0.00E+00	0.00E+00	0.00E+00	3.57E-03	0.00E+00	0.00E+00	0.00E+00	1.55E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-137	0.00E+00	0.00E+00	9.19E+00	1.59E+01	0.00E+00	7.65E+00	2.36E-01	6.95E-01	3.90E-01	8.67E+00	8.56E+01	7.01E+02	2.40E+00	0.00E+00	8.45E+02	3.87E+01	5.94E-01	1.82E+00	0.00E+00	0.00E+00	0.00E+00
Eu-154	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-02	0.00E+00	5.42E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
H-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.44E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Np-237	0.00E+00	0.00E+00	3.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Pu-239/240	0.00E+00	1.29E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ra-226	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.75E-01	0.00E+00
Th-232	0.00E+00	0.00E+00	0.00E+00	1.20E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Th-234	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
U-234	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
U-235	0.00E+00	0.00E+00	6.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
U-238	0.00E+00	0.00E+00	0.00E+00	1.68E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table B-37. Average concentration (pCi/g) from 0 to 0.5 ft during period year 100 to year 125.

COPC	TSF-11	WRKTF-01	TSF-29	TSF-06 Area 1	TSF-06 Area 3	TSF-06 Area 5	TSF-06 Area 7	TSF-06 Area 8	TSF-06 Area 9	TSF-06 Area 11	TSF-06 Area B	TSF-09/18	TSF-10	TSF-21	TSF-26	TSF-07	TSF-08	TSF-22	TSF-36	TSF-37	LOFT-12
Am-241	0.00E+00	0.00E+00	1.09E-01	0.00E+00	1.25E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cm-242	0.00E+00	0.00E+00	1.64E-71	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cm-243/244	0.00E+00	0.00E+00	3.29E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Co-60	0.00E+00	0.00E+00	0.00E+00	4.24E-07	0.00E+00	8.69E-08	6.82E-08	8.52E-08	0.00E+00	5.06E-08	1.05E-07	2.05E-05	0.00E+00	0.00E+00	2.04E-06	3.13E-05	0.00E+00	7.10E-08	0.00E+00	0.00E+00	0.00E+00
Cs-134	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-17	3.19E-17	0.00E+00	0.00E+00	0.00E+00	8.69E-18	0.00E+00	0.00E+00	0.00E+00	3.77E-18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-137	0.00E+00	0.00E+00	1.23E+00	1.60E+00	0.00E+00	1.03E+00	1.90E-01	5.60E-01	3.14E-01	6.98E+00	1.15E+01	7.06E+01	4.83E-01	0.00E+00	3.37E+02	3.90E+00	5.98E-02	2.44E-01	0.00E+00	0.00E+00	0.00E+00
Eu-154	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-05	0.00E+00	2.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
H-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Np-237	0.00E+00	0.00E+00	4.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Pu-239/240	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ra-226	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Th-232	0.00E+00	0.00E+00	0.00E+00	1.20E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Th-234	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
U-234	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
U-235	0.00E+00	0.00E+00	8.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
U-238	0.00E+00	0.00E+00	0.00E+00	1.67E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table B-38. Average concentration (pCi/g) from 0 to 4 ft during period year 100 to year 125.

COPC	TSF-11	WRRTF-01	TSF-29	TSF-06 Area 1	TSF-06 Area 3	TSF-06 Area 5	TSF-06 Area 7	TSF-06 Area 8	TSF-06 Area 9	TSF-06 Area 11	TSF-06 Area B	TSF-09/18	TSF-10	TSF-21	TSF-26	TSF-07	TSF-08	TSF-22	TSF-36	TSF-37	LOFT-12
Am-241	0.00E+00	0.00E+00	8.14E-02	0.00E+00	3.13E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cm-242	0.00E+00	0.00E+00	1.23E-71	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-71	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cm-243/244	0.00E+00	0.00E+00	2.47E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Co-60	0.00E+00	2.84E-08	0.00E+00	4.24E-07	0.00E+00	6.52E-08	8.52E-09	1.07E-08	0.00E+00	6.31E-09	7.88E-08	2.05E-05	0.00E+00	0.00E+00	5.20E-07	3.13E-05	1.93E-08	5.33E-07	0.00E+00	0.00E+00	0.00E+00
Cs-134	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-18	4.00E-18	0.00E+00	0.00E+00	0.00E+00	8.69E-18	0.00E+00	0.00E+00	0.00E+00	3.77E-18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-137	0.00E+00	0.00E+00	9.26E-01	1.60E+00	0.00E+00	7.70E-01	2.38E-02	7.00E-02	3.93E-02	8.74E-01	8.62E+00	7.06E+01	2.41E-01	0.00E+00	8.51E+01	3.90E+00	5.98E-02	1.83E-01	0.00E+00	0.00E+00	0.00E+00
Eu-154	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.22E-06	0.00E+00	2.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
H-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Np-237	0.00E+00	0.00E+00	3.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Pu-239/240	0.00E+00	1.29E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ra-226	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.98E-02	0.00E+00
Th-232	0.00E+00	0.00E+00	0.00E+00	1.20E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Th-234	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
U-234	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
U-235	0.00E+00	0.00E+00	6.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
U-238	0.00E+00	0.00E+00	0.00E+00	1.67E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table B-39. Average concentration (pCi/g) from 0 to 10 ft during period year 100 to year 130.

COPC	TSF-11	WRRTF-01	TSF-29	TSF-06 Area 1	TSF-06 Area 3	TSF-06 Area 5	TSF-06 Area 7	TSF-06 Area 8	TSF-06 Area 9	TSF-06 Area 11	TSF-06 Area B	TSF-09/18	TSF-10	TSF-21	TSF-26	TSF-07	TSF-08	TSF-22	TSF-36	TSF-37	LOFT-12
Am-241	1.66E-01	0.00E+00	3.24E-02	0.00E+00	1.25E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cm-242	0.00E+00	0.00E+00	4.11E-72	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cm-243/244	0.00E+00	0.00E+00	9.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Co-60	0.00E+00	2.89E-08	0.00E+00	3.60E-07	0.00E+00	2.21E-08	2.89E-09	3.62E-09	0.00E+00	2.15E-09	2.68E-08	1.74E-05	0.00E+00	0.00E+00	1.81E-07	2.66E-05	1.24E-08	1.21E-08	0.00E+00	0.00E+00	0.00E+00
Cs-134	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-18	1.33E-18	0.00E+00	0.00E+00	0.00E+00	7.24E-18	0.00E+00	0.00E+00	0.00E+00	3.14E-18	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-137	0.00E+00	0.00E+00	3.52E-01	1.52E+00	0.00E+00	2.93E-01	9.03E-03	2.66E-02	1.49E-02	3.31E-01	3.28E+00	6.71E+01	9.18E-02	0.00E+00	3.28E+01	3.71E+00	5.68E-02	6.95E-02	0.00E+00	0.00E+00	0.00E+00
Eu-154	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-06	0.00E+00	1.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
H-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-03	0.00E+00	0.00E+00	0.00E+00	3.10E-04	0.00E+00
Np-237	0.00E+00	0.00E+00	1.20E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Pu-239/240	0.00E+00	1.93E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ra-226	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-02	0.00E+00
Th-232	0.00E+00	0.00E+00	0.00E+00	1.20E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Th-234	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
U-234	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
U-235	0.00E+00	0.00E+00	2.40E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
U-238	0.00E+00	0.00E+00	0.00E+00	1.67E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table B-40. Concentrations of contaminants in homegrown produce at year 100.

	Homegrown produce (mg/kg or pCi/g)																					
										TSF 06 Area	TSF 06 Area											
COPC	TSF-11	WRRTF-01	TSF-29	TSF-06 Area 1	TSF-06 Area 3	TSF-06 Area 5	TSF-06 Area 7	TSF-06 Area 8	TSF 06 Area 9	11	B	TSF-09/18	TSF-10	TSF-21	TSF-26	TSF-07	TSF-08	TSF-22	TSF-36	TSF-37	LOFT-12
Acenaphthene	3.64E-05	3.64E-05	3.64E-05	3.64E-05	3.64E-05	3.64E-05	3.64E-05	3.64E-05	3.64E-05	3.64E-05	3.64E-05	3.64E-05	3.64E-05	3.64E-05	3.64E-05	3.64E-05	3.64E-05	3.64E-05	3.64E-05	3.64E-05	3.64E-05
Aroclor-1260	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-03
Benzo(a)anthracene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Benzo(b)fluoranthene	2.92E-05	2.92E-05	2.92E-05	2.92E-05	2.92E-05	2.92E-05	2.92E-05	2.92E-05	2.92E-05	2.92E-05	2.92E-05	2.92E-05	2.92E-05	2.92E-05	2.92E-05	2.92E-05	2.92E-05	2.92E-05	2.92E-05	2.92E-05	2.92E-05
Benzo(a)pyrene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05	0.00E+00	0.00E+00	4.05E-04	0.00E+00	0.00E+00
Dichlorodifluoromethane	5.16E-04	5.16E-04	5.16E-04	5.16E-04	5.16E-04	5.16E-04	5.16E-04	5.16E-04	5.16E-04	5.16E-04	5.16E-04	5.16E-04	5.16E-04	5.16E-04	5.16E-04	5.16E-04	5.16E-04	5.16E-04	5.16E-04	5.16E-04	5.16E-04
cis-1,2-Dichloroethylene	6.65E-02	6.65E-02	6.65E-02	6.65E-02	6.65E-02	6.65E-02	6.65E-02	6.65E-02	6.65E-02	6.65E-02	6.65E-02	6.65E-02	6.65E-02	6.65E-02	6.65E-02	6.65E-02	6.65E-02	6.65E-02	6.65E-02	6.65E-02	6.65E-02
trans-1,2-Dichloroethylene	9.50E-02	9.50E-02	9.50E-02	9.50E-02	9.50E-02	9.50E-02	9.50E-02	9.50E-02	9.50E-02	9.50E-02	9.50E-02	9.50E-02	9.50E-02	9.50E-02	9.50E-02	9.50E-02	9.50E-02	9.50E-02	9.50E-02	9.50E-02	9.50E-02
Di-n-octylphthalate	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Naphthalene	2.25E-03	2.25E-03	2.25E-03	2.25E-03	2.25E-03	2.25E-03	2.25E-03	2.25E-03	2.25E-03	2.25E-03	2.25E-03	2.25E-03	2.25E-03	2.25E-03	2.25E-03	2.25E-03	2.25E-03	2.25E-03	2.25E-03	2.25E-03	2.25E-03
Tetrachloroethylene	5.63E-03	5.63E-03	5.63E-03	5.63E-03	5.63E-03	5.63E-03	5.63E-03	5.63E-03	5.63E-03	5.63E-03	5.63E-03	5.63E-03	5.63E-03	5.63E-03	5.63E-03	5.63E-03	5.63E-03	5.63E-03	5.63E-03	5.63E-03	5.63E-03
Trichloroethene	3.59E-03	3.59E-03	3.59E-03	3.59E-03	3.59E-03	3.59E-03	3.59E-03	3.59E-03	3.59E-03	3.59E-03	3.59E-03	3.59E-03	3.59E-03	3.59E-03	3.59E-03	3.59E-03	3.59E-03	3.59E-03	3.59E-03	3.59E-03	3.59E-03
1,2,4-Trimethylbenzene	6.57E-04	6.57E-04	6.57E-04	6.57E-04	6.57E-04	6.57E-04	6.57E-04	6.57E-04	6.57E-04	6.57E-04	6.57E-04	6.57E-04	6.57E-04	6.57E-04	6.57E-04	6.57E-04	6.57E-04	6.57E-04	6.57E-04	6.57E-04	6.57E-04
Arsenic	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Barium	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Chromium	1.51E-04	4.61E-05	1.51E-04	1.51E-04	1.51E-04	1.51E-04	1.51E-04	1.51E-04	1.51E-04	1.51E-04	1.51E-04	1.51E-04	1.51E-04	1.51E-04	1.51E-04	1.51E-04	1.51E-04	1.51E-04	1.51E-04	1.51E-04	1.51E-04
Manganese	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.14E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Mercury	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E+00	3.54E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Uranium	3.43E-04	3.43E-04	3.54E-04	5.05E-02	3.43E-04	3.43E-04	3.43E-04	3.43E-04	3.43E-04	3.43E-04	3.43E-04	3.43E-04	3.43E-04	3.43E-04	3.43E-04	3.43E-04	3.43E-04	3.43E-04	3.43E-04	3.43E-04	3.43E-04
Am-241	2.05E-05	0.00E+00	4.00E-06	0.00E+00	1.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cm-242	1.98E-83	1.98E-83	3.08E-79	1.98E-83	1.98E-83	1.98E-83	1.98E-83	1.98E-83	1.98E-83	1.98E-83	1.98E-83	1.98E-83	1.98E-83	1.98E-83	1.98E-83	1.98E-83	1.98E-83	1.98E-83	1.98E-83	1.98E-83	1.98E-83
Cm-243/244	0.00E+00	0.00E+00	2.09E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Co-60	0.00E+00	3.79E-12	0.00E+00	7.19E-11	0.00E+00	4.43E-12	3.79E-13	7.23E-13	0.00E+00	4.29E-13	3.55E-12	3.47E-09	0.00E+00	0.00E+00	3.63E-11	5.31E-09	2.49E-12	2.41E-12	0.00E+00	0.00E+00	0.00E+00
Cs-134	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-22	1.66E-22	0.00E+00	0.00E+00	0.00E+00	9.05E-22	0.00E+00	0.00E+00	0.00E+00	5.91E-22	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cs-137	0.00E+00	0.00E+00	6.43E-04	2.78E-03	0.00E+00	5.35E-04	1.65E-05	4.86E-05	2.73E-05	6.05E-04	5.99E-03	1.23E-01	1.68E-04	0.00E+00	5.99E-02	6.77E-05	1.04E-04	1.27E-04	0.00E+00	0.00E+00	0.00E+00
Eu-154	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-11	0.00E+00	1.53E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
H-3	1.07E-10	1.07E-10	1.07E-10	1.07E-10	1.07E-10	1.07E-10	1.07E-10	1.07E-10	1.07E-10	1.07E-10	1.07E-10	1.07E-10	1.07E-10	1.07E-10	1.07E-10	2.22E-06	1.07E-10	1.07E-10	1.07E-10	3.33E-07	1.07E-10
Np-237	1.92E-14	1.92E-14	4.20E-06	1.92E-14	1.92E-14	1.92E-14	1.92E-14	1.92E-14	1.92E-14	1.92E-14	1.92E-14	1.92E-14	1.92E-14	1.92E-14	1.92E-14	1.92E-14	1.92E-14	1.92E-14	1.92E-14	1.92E-14	1.92E-14
Pu-239/240	0.00E+00	1.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ra-226	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-04	0.00E+00
Th-232	0.00E+00	0.00E+00	0.00E+00	3.12E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Th-234	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
U-234	2.12E-03	2.12E-03	2.12E-03	2.12E-03	2.12E-03	2.12E-03	2.12E-03	2.12E-03	2.12E-03	2.12E-03	2.12E-03	2.12E-03	2.12E-03	2.12E-03	2.12E-03	2.12E-03	2.12E-03	2.12E-03	2.12E-03	2.12E-03	2.12E-03
U-235	0.00E+00	0.00E+00	2.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
U-238	0.00E+00	0.00E+00	0.00E+00	1.69E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table B-41. Dermal permeabilities.

COPC	Dermal Permeability (K^w_p) (cm/hr) [a]
Acenaphthene	1.36E-01
Aroclor-1260	8.49E-01
Benzo(a)anthracene	8.10E-01[c]
Benzo(b)fluoranthene	1.20E+00[c]
Benzo(a)pyrene	1.20E+00[c]
Dichlorodifluoromethane	1.20E-02[c]
cis-1,2-Dichloroethylene	1.00E-02[c]
trans-1,2-Dichloroethylene	1.00E-02[c]
Di-n-octylphthalate	2.69E+01
Naphthalene	6.90E-02[c]
Tetrachloroethylene	4.80E-02[c]
Trichloroethene	1.60E-02[c]
1,2,4-Trimethylbenzene	1.70E-01
Arsenic	1.00E-03
Barium	1.00E-03
Chromium	1.00E-03
Manganese	1.00E-03
Mercury	1.00E-03
Uranium	1.00E-03
Am-241	1.00E-03
Cm-242	1.00E-03
Cm-243/244	1.00E-03
Co-60	1.00E-03
Cs-134	1.00E-03
Cs-137	1.00E-03
Eu-154	1.00E-03
H-3	1.00E-03
Np-237	1.00E-03
Pu-239/240	1.00E-03
Ra-226	1.00E-03
Sr-90	1.00E-03
Th-232	1.00E-03
Th-234	1.00E-03
U-234	1.00E-03
U-235	1.00E-03
U-238	1.00E-03

a. From Becker (1995) unless otherwise indicated.
b. Calculated using equation from Becker (1995).
c. From *Dermal Exposure Asssessment: Principles and Applications* (EPA, 1992)

Table B-42. Concentrations of contaminants in air pathway.

COPC	Resident: Years 100 - 130		Worker: Years 0 - 25		Worker: Years 100 - 125	
	Particulate matter (mg/m^3 or pCi/m^3)	Volatiles (mg/m^3)	Particulate matter (mg/m^3 or pCi/m^3)	Volatiles (mg/m^3)	Particulate matter (mg/m^3 or pCi/m^3)	Volatiles (mg/m^3)
Acenaphthene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Aroclor-1260	1.97E-02	1.52E-07	3.74E-02	3.02E-07	3.74E-02	3.02E-07
Benzo(a)anthracene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Benzo(b)fluoranthene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Benzo(a)pyrene	1.79E-02	1.48E-09	3.57E-02	2.95E-09	3.57E-02	2.95E-09
Dichlorodifluoromethane	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
cis-1,2-Dichloroethylene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
trans-1,2-Dichloroethylene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Di-n-octylphthalate	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Naphthalene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Tetrachloroethylene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Trichloroethene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,2,4-Trimethylbenzene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Arsenic	2.43E+00	-	2.43E+00	-	2.43E+00	-
Barium	5.28E+01	-	5.28E+01	-	5.28E+01	-
Chromium	1.15E+01	-	0.00E+00	-	0.00E+00	-
Manganese	3.10E+01	-	0.00E+00	-	0.00E+00	-
Mercury	4.30E-01	-	3.53E-01	-	3.53E-01	-
Uranium	1.93E+01	-	1.93E+01	-	1.93E+01	-
Am-241	4.46E-03	-	1.06E-02	-	8.99E-03	-
Cm-242	1.69E-73	-	2.12E-05	-	6.76E-73	-
Cm-243/244	3.84E-05	-	1.54E-03	-	1.35E-04	-
Co-60	4.79E-06	-	3.03E+00	-	5.88E-06	-
Cs-134	6.67E-19	-	1.15E-03	-	2.80E-18	-
Cs-137	6.05E+00	-	4.51E+02	-	4.55E+01	-
Eu-154	1.18E-06	-	4.44E-03	-	1.69E-06	-
H-3	3.51E-04	-	1.09E-01	-	3.90E-04	-
Np-237	4.93E-04	-	1.64E-03	-	1.64E-03	-
Pu-239/240	8.45E-02	-	0.00E+00	-	0.00E+00	-
Ra-226	3.78E-01	-	3.95E-01	-	3.79E-01	-
Sr-90	2.58E-04	-	5.43E-02	-	4.81E-03	-
Th-232	4.63E+00	-	4.63E+00	-	4.63E+00	-
Th-234	0.00E+00	-	7.57E-04	-	0.00E+00	-
U-234	0.00E+00	-	0.00E+00	-	0.00E+00	-
U-235	9.86E-04	-	3.29E-03	-	3.29E-03	-
U-238	6.48E+00	-	6.48E+00	-	6.48E+00	-

"----" indicates COPC is not considered a volatile for this pathway.

Table B-43. GWSCREEN parameters and the values used for transport modeling.

Variable	Parameter description	Value[a]	Units
L	Source length parallel to aquifer flow direction	240[b]	m
W	Source width perpendicular to aquifer flow direction	240[b]	m
D_s	Thickness of source	3.00[c]	m
I	Infiltration rate (Darcy flux)	0.1	m/y
v_a	Aquifer pore velocity	570	m/y
θ_s	Volumetric water content in source	0.30	unitless
θ_u	Volumetric water content in unsaturated zone	0.30	unitless
ρ_s	Bulk density at source	1.5	g/cm^3
ρ_u	Bulk density in unsaturated zone	1.9	g/cm^3
ρ_a	Bulk density of aquifer	1.9	g/cm^3
K_{ds}	Linear sorption coefficient in source	CD[d]	mL/g
K_{du}	Linear sorption coefficient in unsaturated zone	CD[d]	mL/g
K_{da}	Linear sorption coefficient in aquifer	CD[d]	mL/g
n	Porosity of aquifer	0.1	unitless
T	Depth to aquifer below contamination source	4.0[e]	m
α_L	Dispersivity in the direction of flow (x)	9	m
α_T	Dispersivity perpendicular to the direction of flow (y)	4	m
M_o or A_o	Initial contaminant mass or activity	CD	mg or Ci
$T_{1/2}$	Half-life of contaminant	CD	y
EWST	Equivalent well screen thickness	15	m
X	Distance to receptor along x axis, in the aquifer	120[f]	m
Y	Distance to receptor along y axis, in the aquifer	0	m

a. Values are default Track 2 numbers unless otherwise noted.
b. Source length and width values are the square root of the source area.
c. The thickness of the source volume is the average thickness of sources from each site.
d. Same sorption coefficient is used for source, unsaturated zone and saturated zone.
e. Depth to aquifer value is taken from Kaminsky et al. (1993).
f. Distance is equal to one half of the source length.

Table B-44. COPC total masses or activities in soil (sources to groundwater).

COPC	Total inventory in soil to be transported to groundwater (mg or Ci)
Acenaphthene	---
Aroclor-1260	2.37E+06
Benzo(a)anthracene	---
Benzo(b)fluoranthene	---
Benzo(a)pyrene	2.24E+06
Dichlorodifluoromethane	---
cis-1,2-Dichloroethylene	---
trans-1,2-Dichloroethylene	---
Di-n-octylphthalate	---
Naphthalene	---
Tetrachloroethylene	---
Trichloroethene	---
1,2,4-Trimethylbenzene	---
Arsenic	6.40E+08
Barium	1.53E+10
Chromium	2.31E+09
Manganese	8.16E+09
Mercury	1.19E+08
Uranium	5.08E+00
Am-241	1.16E-03
Cm-242	1.62E-05
Cm-243/244	4.06E-05
Co-60	2.93E+00
Cs-134	9.78E-04
Cs-137	2.90E+01
Eu-154	7.01E-03
H-3	5.91E-02
Np-237	3.25E-05
Pu-239/240	4.52E-02
Ra-226	1.15E-01
Sr-90	9.60E-04
Th-232	1.22E+00
Th-234	5.76E-02
U-234	---
U-235	6.50E-05
U-238	1.71E+00

"---" indicates COPC is not a COPC in soil.

Table B-45. Ground water concentrations for WAG 1.

COPC	Groundwater concentration (mg/L or pCi/L)	Transit time to aquifer (yrs)
Acenaphthene	6.00E-04	a
Aroclor-1260	----	1.14E+05
Benzo(a)anthracene	2.20E-04	a
Benzo(b)fluoranthene	1.90E-04	a
Benzo(a)pyrene	----	2.03E+05
Dichlorodifluoromethane	2.00E-04	a
cis-1,2-Dichloroethylene	7.00E-02	b
trans-1,2-Dichloroethylene	1.00E-01	b
Di-n-octylphthalate	1.00E-03	a
Naphthalene	2.00E-03	a
Tetrachloroethylene	5.00E-03	a
Trichloroethene	5.00E-03	b
1,2,4-Trimethylbenzene	3.00E-04	b
Arsenic	0.00E+00	2.40E+02
Barium	0.00E+00	3.81E+03
Chromium	1.19E-01	1.03E+02
Manganese	0.00E+00	3.81E+03
Mercury	0.00E+00	7.61E+03
Uranium	4.81E-03	b
Am-241	----	2.59E+04
Cm-242	3.45E-75	1.20E+01
Cm-243/244	0.00E+00	4.68E+02
Co-60	0.00E+00	7.72E+02
Cs-134	----	3.80E+04
Cs-137	----	3.80E+04
Eu-154	----	2.59E+04
H-3	1.31E+00	1.20E+01
Np-237	7.22E-10	1.20E+01
Pu-239/240	0.00E+00	1.68E+03
Ra-226	0.00E+00	7.61E+03
Sr-90	0.00E+00	1.84E+03
Th-232	----	7.61E+03
Th-234	----	7.61E+03
U-234	3.00E+01	b
U-235	0.00E+00	4.68E+02
U-238	0.00E+00	4.68E+02

"----" indicates that the COPC has a transit time through the unsaturated zone that is greater than 10,000 years.

a. Value from WRRTF-05 groundwater data (IEDMS).

b. Value from TSF-05 groundwater data.

Table B-46A. Peak groundwater concentrations for WAG 1.

COPC	Peak groundwater concentration (mg/L or pCi/L)	Transit time to aquifer or 30-year period of peak concentration (yrs)
Acenaphthene	6.00E-04	a
Aroclor-1260	----	1.14E+05
Benzo(a)anthracene	2.20E-04	a
Benzo(b)fluoranthene	1.90E-04	a
Benzo(a)pyrene	----	2.03E+05
Dichlorodifluoromethane	2.00E-04	a
cis-1,2-Dichloroethylene	7.00E-02	b
trans-1,2-Dichloroethylene	1.00E-01	b
Di-n-octylphthalate	1.00E-03	a
Naphthalene	2.00E-03	a
Tetrachloroethylene	5.00E-03	b
Trichloroethene	5.00E-03	b
1,2,4-Trimethylbenzene	3.00E-04	a
Arsenic	1.76E-02	260 - 290
Barium	2.78E-02	4300 - 4330
Chromium	1.32E-01	109 - 139
Manganese	1.48E-02	4290 - 4320
Mercury	1.08E-04	8550 - 8580
Uranium	7.40E-02	b
Am-241	----	2.59E+04
Cm-242	8.86E-75	100 - 130
Cm-243/244	1.92E-12	481 - 511
Co-60	4.17E-45	773 - 803
Cs-134	----	3.80E+04
Cs-137	----	3.80E+04
Eu-154	----	2.59E+04
H-3	1.38E-06	100 - 130
Np-237	7.84E-10	100 - 130
Pu-239/240	1.76E-01	1900 - 1930
Ra-226	2.58E-03	8400 - 8430
Sr-90	1.30E-23	1870 - 1900
Th-232	1.11E+00	8570 - 8600
Th-234	6.31E-258	7620 - 7650
U-234	3.00E+01	c
U-235	9.48E-04	519 - 549
U-238	2.49E+01	516 - 546

"----" indicates that the COPC has a transit time through the unsaturated zone that is greater than 10,000 years.

a. Value from WRRTF-05 groundwater data (IEDMS).

b. Value based on uranium isotope values.

c. Value from TSF-05 groundwater data.

Table B-46B. Concentrations of volatiles from indoor water use.

COPC	Concentration at 100 year (mg/m^3 or pCi/m^3)
Acenaphthene	3.90E-05
Aroclor-1260	0.00E+00
Benzo(a)anthracene	1.43E-05
Benzo(b)fluoranthene	1.24E-05
Benzo(a)pyrene	0.00E+00
Dichlorodifluoromethane	1.30E-05
cis-1,2-Dichloroethylene	4.55E-03
trans-1,2-Dichloroethylene	6.50E-03
Di-n-octylphthalate	6.50E-05
Naphthalene	1.30E-04
Tetrachloroethylene	3.25E-04
Trichloroethene	3.25E-04
1,2,4-Trimethylbenzene	1.95E-05
Arsenic	0.00E+00
Barium	0.00E+00
Chromium	7.74E-03
Manganese	0.00E+00
Mercury	0.00E+00
Uranium	3.12E-04
Am-241	0.00E+00
Cm-242	2.24E-76
Cm-243/244	0.00E+00
Co-60	0.00E+00
Cs-134	0.00E+00
Cs-137	0.00E+00
Eu-154	0.00E+00
H-3	8.52E-08
Np-237	4.69E-11
Pu-239/240	0.00E+00
Ra-226	0.00E+00
Sr-90	0.00E+00
Th-232	0.00E+00
Th-234	0.00E+00
U-234	1.95E+00
U-235	0.00E+00
U-238	0.00E+00

Table B-47. Soil ingestion intake factor equation for the occupational exposure scenario.[a,b]

$$\text{Intake factor} = \frac{C_{soil} * IR * FI * EF * ED * CF}{BW * AT}$$

		Parameter	Value
C_{soil}	=	Contaminant concentration in soil (mg/kg or pCi/g)	Contaminant Dependent
IR	=	Ingestion rate (mg/day)	50
FI	=	Fraction ingested from contaminated source	1
EF	=	Exposure frequency (day/ yr)	250
ED	=	Exposure duration (yr)	25
CF	=	Conversion factor (kg/mg)	10^{-6} (nonradionuclide) or 10^{-3} (radionuclide)
BW	=	Body weight (kg)	70
AT	=	Averaging time (day)	
		Noncarcinogenic	9.13E+03
		Carcinogenic	2.55E+04

a. Equation for radionuclides does not include denominator (BW * AT).
b. Values from DOE-ID, 1994.

Table B-48. External exposure intake factor equation for the occupational exposure scenario.[a]

$$\text{Exposure factor} = C_{soil} * ET * EF * ED * CF$$

Parameter			Value
C_{soil}	=	Contaminant concentration in soil (pCi/g)	Contaminant dependent
ET	=	Exposure time (hr/day)	8
EF	=	Exposure frequency (day/ yr)	250
ED	=	Exposure duration (yr)	25
CF	=	Conversion factor (yr/hr)	1.14×10^{-4}

a. Values from DOE-ID, 1994.

Table B-49. Inhalation of fugitive dust intake factor equation for the occupational exposure scenario.[a,b]

$$\text{Intake factor} = \frac{C_{air} * IR * EF * ED * CF * ET}{BW * AT}$$

		Parameter	Value
C_{air}	=	Contaminant concentration in air (mg/m^3 or pCi/m^3)	Contaminant dependent
IR	=	Inhalation rate (m^3/hr)	8.3E-01
ED	=	Exposure duration (yr)	25
ET	=	Exposure time (hr/day)	8
CF	=	Conversion factor (day/hr)	4.2E-02
EF	=	Exposure frequency (day/yr)	250
BW	=	Body weight (kg)	70
AT	=	Averaging time (day)	
		Noncarcinogenic	9.13E+03
		Carcinogenic	2.55E+04

a. Equation for radionuclides does not include denominator (BW * AT).
b. Values from DOE-ID, 1994.

Table B-50. Inhalation of volatiles intake factor equation for the occupational exposure scenario.[a,b]

$$\text{Intake factor} = \frac{C_{air} * IR * EF * ET * ED}{BW * AT}$$

Parameter			Value
C_{air}	=	Contaminant concentration in air (mg/m^3)	Contaminant dependent
IR	=	Inhalation rate (m^3/hr)	8.3E-01
EF	=	Exposure frequency (day/yr)	250
ED	=	Exposure duration (yr)	25
ET	=	Exposure time (hr/day)	8
BW	=	Body weight (kg)	70
AT	=	Averaging time (day)	
		Noncarcinogenic	9.13E+03
		Carcinogenic	2.55E+04

a. Equation for radionuclides does not include denominator (BW * AT).
b. Values from DOE-ID, 1994.

Table B-51. Soil ingestion intake factor equation for the future residential exposure scenario.[a,b]

$$\text{Intake factor} = \left(\frac{C_{soil} * FI * EF * CF}{AT}\right) * \left(\frac{IR_{adult} * ED_{adult}}{BW_{adult}} + \frac{IR_{child} * ED_{child}}{BW_{child}}\right)$$

Parameter			Value	
			Adult	Child
C_{soil}	=	Contaminant concentration in soil (mg/kg or pCi/g)	Contaminant dependent	Contaminant dependent
IR	=	Ingestion rate (mg/day)	100	200
FI	=	Fraction ingested from contaminated source	1	1
EF	=	Exposure frequency (day/yr)	350	350
ED	=	Exposure duration (yr)	24	6
CF	=	Conversion factor (kg/mg)	10^{-6} (nonradionuclide) 10^{-3} (radionuclide)	10^{-6} (nonradionuclide) 10^{-3} (radionuclide)
BW	=	Body weight (kg)	70	15
AT	=	Averaging time (day)		
		Noncarcinogenic	1.10E+04	1.10E+04
		Carcinogenic	2.55E+04	2.55E+04

a. Equation for radionuclides does not include denominator (BW * AT).
b. Values from DOE-ID, 1994.

Table B-52. Homegrown produce ingestion intake factor equation for the future residential exposure scenario.[a,b]

$$\text{Intake factor} = \frac{C_{produce} * IR * EF * ED * CF}{BW * AT}$$

		Parameter	Value
$C_{produce}$	=	Contaminant concentration in homegrown fruits and vegetables (mg/kg or pCi/g)	Contaminant dependent
IR	=	Ingestion rate (g/kg-d or g/d)[c]	2.76E-01 g/kg-d (nonradionuclide) 1.67E+01 g/d (radionuclide)
EF	=	Exposure frequency (day/yr)	350
ED	=	Exposure duration (yr)	30
CF	=	Conversion factor (kg/mg)	10^{-3} (nonradionuclide only)
AT	=	Averaging time (day)	
		Noncarcinogenic	1.10E+04
		Carcinogenic	2.55E+04

a. Equation for radionuclide does not include denominator (BW * AT).
b. Values from DOE-ID, 1994.
c. See LITCO (1996) for the derivation of these ingestion rates.

Table B-53. External exposure intake factor equation for the future residential exposure scenario.[a]

$$\text{Intake factor} = C_{soil} * ET * EF * ED * CF$$

		Parameter	Value
C_{soil}	=	Contaminant concentration in soil	Contaminant dependent
ET	=	Exposure time (hr/day)	24
EF	=	Exposure frequency (day/yr)	350
ED	=	Exposure duration (yr)	30
CF	=	Conversion factor (yr/hr)	1.14×10^{-4}

a. Values from DOE-ID, 1994.

Table B-54. Inhalation of fugitive dust intake factor equation for the future residential exposure scenario.[a,b]

$$\text{Intake factor} = \frac{C_{air} * IR * EF * ED * CF * ET}{BW * AT}$$

		Parameter	Value
C_{air}	=	Contaminant concentration in air (mg/m^3 or pCi/m^3)	Contaminant dependent
IR	=	Inhalation rate (m^3/hr)	8.3E-01
EF	=	Exposure frequency (days/ yr)	350
ED	=	Exposure duration (yr)	30
ET	=	Exposure time (hr/day)	24
CF	=	Conversion factor (day/hr)	4.2E-02
BW	=	Body weight (kg)	70
AT	=	Averaging time (day)	
		Noncarcinogenic	1.10E+04
		Carcinogenic	2.55E+04

a. Equation for radionuclide does not include denominator (BW * AT).
b. Values from DOE-ID, 1994.

Table B-55. Inhalation of volatiles intake factor equation for the future residential exposure scenario.[a,b,c]

$$\text{Intake factor} = \frac{C_{air} * IR * EF * ED * ET}{BW * AT}$$

		Parameter	Value
C_{air}	=	Contaminant concentration in air (mg/m^3)	Contaminant dependent
IR	=	Inhalation rate (m^3/hr)	8.3E-01
EF	=	Exposure frequency (day/yr)	350
ED	=	Exposure duration (yr)	30
ET	=	Exposure time (hr)	24
BW	=	Body weight (kg)	70
AT	=	Averaging time (day)	
		Noncarcinogenic	1.10E+04
		Carcinogenic	2.55E+04

a. Equation remains the same for the inhalation of water vapors from indoor water use.
b. Equation for radionuclides does not include denominator (BW * AT).
c. Values from DOE-ID, 1994.

Table B-56. Ingestion of groundwater intake factor equation for the future residential exposure scenario.[a,b]

$$\text{Intake factor} = \frac{C_w * IR * EF * ED * FI}{BW * AT}$$

		Parameter	Value
C_w	=	Contaminant concentration in groundwater (mg/L of pCi/L)	Contaminant dependent
IR	=	Intake rate (L/day)	2
EF	=	Exposure frequency (day/yr)	350
ED	=	Exposure duration (yr)	30
FI	=	Fraction ingested from contaminated source	1
BW	=	Body weight (kg)	70
AT	=	Averaging time (day)	
		Noncarcinogenic	1.10E+04
		Carcinogenic	2.55E+04

a. Equation for radionuclides does not include denominator (BW * AT).
b. Values from DOE-ID, 1994.

Table B-57. Dermal exposure to groundwater intake factor equation for the future residential exposure scenario.[a]

$$\text{Intake Factor} = \frac{C_w * SA * PC * ET * EF * ED * CF}{BW * AT}$$

		Parameter	Value
C_w	=	Contaminant concentration in water (mg/L)	Contaminant dependent
SA	=	Skin surface area available for contact (cm^2)	17000[b]
PC	=	Chemical specific dermal permeability constant (cm/hr)	Contaminant dependent
ET	=	Exposure time (hours/day)	2.5E-01[b]
EF	=	Exposure frequency (events/yr)	350[c]
ED	=	Exposure duration (yr)	30[c]
CF	=	Volumetric conversion factor for water ($1L/1000\ cm^3$)	10^{-3}
BW	=	Body weight (kg)	70[c]
AT	=	Averaging time (days)	
		Noncarcinogenic	1.10E+04
		Carcinogenic	2.55E+04

a. Equation for radionuclides does not include denominator (BW * AT).
b. Values from EPA, 1992.
c. Values from DOE-ID, 1994.

Table B-58 Intakes (carcinogenic) - current worker at year 0.

	Ingestion of soil (mg/kg-day or pCi)																				
COPC	TSF-11	WRRTF-01	TSF-29	TSF-06 Area 1	TSF-06 Area 3	TSF-06 Area 5	TSF-06 Area 7	TSF-06 Area 8	TSF-06 Area 9	TSF-06 Area 11	TSF-06 Area B	TSF-09/18	TSF-10	TSF-21	TSF-26	TSF-07	TSF-08	TSF-22	TSF-36	TSF-37	LOFT-12
Acenaphthene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Aroclor-1260	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	3.84E-08	----	----	----	----	----
Benzo(a)anthracene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Benzo(b)fluoranthene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Benzo(a)pyrene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	3.67E-08	----	----	----	----	----
Dichlorodifluoromethane	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
cis-1,2-Dichloroethylene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
trans-1,2-Dichloroethylene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Di-n-octylphthalate	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Naphthalene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Tetrachloroethylene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Trichloroethene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1,2,4-Trimethylbenzene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Arsenic	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	2.50E-06	----	----	----	----	----
Barium	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	5.43E-05	----	----	----	----	----
Chromium	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Manganese	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Mercury	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	3.63E-07	----	----	----	----	----
Uranium	----	----	6.46E-09	8.70E-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Am-241	----	----	3.98E+01	----	4.59E+01	----	----	----	----	----	----	----	----	----	----	6.43E+00	----	----	----	----	----
Cm-242	----	----	1.61E-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Cm-243/244	----	----	1.17E+01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Co-60	----	----	----	6.83E+01	----	1.40E+01	1.10E+01	1.37E+01	----	8.14E+00	1.69E+01	3.30E+03	----	----	3.29E+02	5.04E+03	----	1.14E+01	----	----	----
Cs-134	----	----	----	----	----	----	3.71E+00	4.09E+00	----	----	----	1.11E+00	----	----	----	4.83E-01	----	----	----	----	----
Cs-137	----	----	3.83E+03	4.96E+03	----	3.19E+03	5.90E+02	1.74E+03	9.75E+02	2.16E+04	3.57E+04	2.19E+05	1.50E+03	----	1.05E+06	1.21E+04	1.85E+02	7.56E+02	----	----	----
Eu-154	----	----	----	----	----	----	----	----	----	4.10E+01	----	1.69E+02	----	----	----	----	----	----	----	----	----
H-3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	2.01E+02	----	----	----	----	----
Np-237	----	----	1.25E+01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Pu-239/240	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Ra-226	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	7.27E+02	----	----	----	----	----
Sr-90	----	----	----	----	----	----	----	7.73E+02	----	----	----	----	----	----	----	----	----	----	----	----	----
Th-232	----	----	----	3.74E+03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Th-234	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	1.39E+00	----	----	----	----	----
U-234	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
U-235	----	----	2.50E+01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
U-238	----	----	----	5.23E+03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

Table B-58. (continued).

External radiation exposure (year per pCi/g)

COPC	TSF-11	WRRTF-01	TSF-29	TSF-06 Area 1	TSF-06 Area 3	TSF-06 Area 5	TSF-06 Area 7	TSF-06 Area 8	TSF-06 Area 9	TSF-06 Area 11	TSF-06 Area B	TSF-09/18	TSF-10	TSF-21	TSF-26	TSF-07	TSF-08	TSF-22	TSF-36	TSF-37	LOFT-12
Acenaphthene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Aroclor-1260	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Benzo(a)anthracene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Benzo(b)fluoranthene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Benzo(a)pyrene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Dichlorodifluoromethane	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
cis-1,2-Dichloroethylene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
trans-1,2-Dichloroethylene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Di-n-octylphthalate	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Naphthalene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Tetrachloroethylene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Trichloroethene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1,2,4-Trimethylbenzene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Arsenic	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Barium	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Chromium	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Manganese	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Mercury	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Uranium	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Am-241	----	----	5.45E-01	----	2.10E-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Cm-242	----	----	2.20E-03	----	----	----	----	----	----	----	----	----	----	----	----	3.08E-03	----	----	----	----	----
Cm-243/244	----	----	1.60E-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Co-60	----	8.34E-02	----	1.25E+00	----	1.92E-01	2.50E-02	3.14E-02	----	1.85E-02	2.32E-01	6.01E+01	----	----	1.53E+00	9.20E+01	5.67E-02	1.57E+00	----	----	----
Cs-134	----	----	----	----	----	----	8.47E-03	9.35E-03	----	----	----	2.03E-02	----	----	----	8.81E-03	----	----	----	----	----
Cs-137	----	----	5.24E+01	9.05E+01	----	4.36E+01	1.34E+00	3.96E+00	2.23E+00	4.94E+01	4.88E+02	4.00E+03	1.37E+01		4.81E+03	2.21E+02	3.38E+00	1.04E+01	----	----	----
Eu-154	----	----	----	----	----	----	----	----	----	9.34E-02	----	3.09E+00	----	----	----	----	----	----	----	----	----
H-3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	3.67E+00	----	----	----	----	----
Np-237	----	----	1.71E-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Pu-239/240	----	7.35E+00	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Ra-226	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	1.33E+01	----	----	----	----	----
Sr-90	----	----	----	----	----	----	----	1.77E+00	----	----	----	----	----	----	----	----	----	----	----	3.85E+00	----
Th-232	----	----	----	6.82E+01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Th-234	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	2.54E-02	----	----	----	----	----
U-234	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
U-235	----	----	3.42E-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
U-238	----	----	----	9.55E+01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

Table B-58. (continued).

COPC	Inhalation of fugitive dust (mg/kg-day or pCi)	Inhalation of volatiles (mg/kg-day or pCi)
Acenaphthene	----	----
Aroclor-1260	2.87E-11	2.11E-08
Benzo(a)anthracene	----	----
Benzo(b)fluoranthene	----	----
Benzo(a)pyrene	2.74E-11	2.06E-10
Dichlorodifluoromethane	----	----
cis-1,2-Dichloroethylene	----	----
trans-1,2-Dichloroethylene	----	----
Di-n-octylphthalate	----	----
Naphthalene	----	----
Tetrachloroethylene	----	----
Trichloroethene	----	----
1,2,4-Trimethylbenzene	----	----
Arsenic	1.87E-09	----
Barium	4.06E-08	----
Chromium	----	----
Manganese	----	----
Mercury	2.72E-10	----
Uranium	1.48E-08	----
Am-241	1.45E-05	----
Cm-242	2.91E-08	----
Cm-243/244	2.12E-06	----
Co-60	4.17E-03	----
Cs-134	1.58E-06	----
Cs-137	6.20E-01	----
Eu-154	6.11E-06	----
H-3	1.50E-04	----
Np-237	2.26E-06	----
Pu-239/240	----	----
Ra-226	5.44E-04	----
Sr-90	7.47E-05	----
Th-232	6.36E-03	----
Th-234	1.04E-06	----
U-234	----	----
U-235	4.52E-06	----
U-238	8.91E-03	----

Table B-59. Intakes (noncarcinogenic) - current worker at year 0.

	Ingestion of soil (mg/kg-day)																				
COPC	TSF-11	WRRTF-01	TSF-29	TSF-06 Area 1	TSF-06 Area 3	TSF-06 Area 5	TSF-06 Area 7	TSF-06 Area 8	TSF-06 Area 9	TSF-06 Area 11	TSF-06 Area B	TSF-09/18	TSF-10	TSF-21	TSF-26	TSF-07	TSF-08	TSF-22	TSF-36	TSF-37	LOFT-12
Acenaphthene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Aroclor-1260	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	1.08E-07	----	----	----	----	----
Benzo(a)anthracene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Benzo(b)fluoranthene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Benzo(a)pyrene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	1.03E-07	----	----	----	----	----
Dichlorodifluoromethane	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
cis-1,2-Dichloroethylene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
trans-1,2-Dichloroethylene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Di-n-octylphthalate	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Naphthalene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Tetrachloroethylene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Trichloroethene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1,2,4-Trimethylbenzene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Arsenic	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	7.00E-06	----	----	----	----	----
Barium	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	1.52E-04	----	----	----	----	----
Chromium	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Manganese	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Mercury	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	1.02E-06	----	----	----	----	----
Uranium	----	----	1.81E-08	2.44E-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

Table B-59. (continued).

COPC	Inhalation of fugitive dust (mg/kg-day)	Inhalation of volatiles (mg/kg-day)
Acenaphthene	----	----
Aroclor-1260	8.04E-11	5.91E-08
Benzo(a)anthracene	----	----
Benzo(b)fluoranthene	----	----
Benzo(a)pyrene	7.68E-11	5.78E-10
Dichlorodifluoromethane	----	----
cis-1,2-Dichloroethylene	----	----
trans-1,2-Dichloroethylene	----	----
Di-n-octylphthalate	----	----
Naphthalene	----	----
Tetrachloroethylene	----	----
Trichloroethene	----	----
1,2,4-Trimethylbenzene	----	----
Arsenic	5.23E-09	----
Barium	1.14E-07	----
Chromium	----	----
Manganese	----	----
Mercury	7.60E-10	----
Uranium	4.15E-08	----

Table B-60. Intakes (carcinogenic) - future worker at year 100.

	Ingestion of soil (mg/kg-day or pCi)																				
COPC	TSF-11	WRRTF-01	TSF-29	TSF-06 Area 1	TSF-06 Area 3	TSF-06 Area 5	TSF-06 Area 7	TSF-06 Area 8	TSF-06 Area 9	TSF-06 Area 11	TSF-06 Area 8	TSF-09/18	TSF-10	TSF-21	TSF-26	TSF-07	TSF-08	TSF-22	TSF-36	TSF-37	LOFT-12
Acenaphthene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Aroclor-1260	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	3.84E-08	----	----	----	----	----
Benzo(a)anthracene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Benzo(b)fluoranthene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Benzo(a)pyrene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	3.67E-08	----	----	----	----	----
Dichlorodifluoromethane	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
cis-1,2-Dichloroethylene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
trans-1,2-Dichloroethylene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Di-n-octylphthalate	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Naphthalene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Tetrachloroethylene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Trichloroethene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1,2,4-Trimethylbenzene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Arsenic	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	2.50E-06	----	----	----	----	----
Barium	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	5.43E-05	----	----	----	----	----
Chromium	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Manganese	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Mercury	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	3.63E-07	----	----	----	----	----
Uranium	----	----	6.46E-09	8.70E-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Am-241	----	----	3.39E+01	----	3.91E+01	----	----	----	----	----	----	----	----	----	----	5.48E+00	----	----	----	----	----
Cm-242	----	----	5.14E-69	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Cm-243/244	----	----	1.03E+00	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Co-60	----	----	----	1.32E-04	----	2.72E-05	2.13E-05	2.66E-05	----	1.58E-05	3.28E-05	6.40E-03	----	----	6.39E-04	9.78E-03	----	2.22E-05	----	----	----
Cs-134	----	----	----	----	----	----	9.05E-15	9.96E-15	----	----	----	2.72E-15	----	----	----	1.18E-15	----	----	----	----	----
Cs-137	----	----	3.86E+02	5.00E+02	----	3.21E+02	5.94E+01	1.75E+02	9.82E+01	2.18E+03	3.59E+03	2.21E+04	1.51E+02	----	1.05E+05	1.22E+03	1.87E+01	7.62E+01	----	----	----
Eu-154	----	----	----	----	----	----	----	----	----	1.55E-02	----	6.43E-02	----	----	----	----	----	----	----	----	----
H-3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	7.18E-01	----	----	----	----	----
Np-237	----	----	1.25E+01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Pu-239/240	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Ra-226	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	6.96E+02	----	----	----	----	----
Sr-90	----	----	----	----	----	----	----	6.85E+01	----	----	----	----	----	----	----	----	----	----	----	----	----
Th-232	----	----	----	3.74E+03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Th-234	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
U-234	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
U-235	----	----	2.50E+01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
U-238	----	----	----	5.23E+03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

Table B-60. (continued).

	External radiation exposure (year per pCi/g)																				
COPC	TSF-11	WRRTF-01	TSF-29	TSF-06 Area 1	TSF-06 Area 3	TSF-06 Area 5	TSF-06 Area 7	TSF-06 Area 8	TSF-06 Area 9	TSF-06 Area 11	TSF-06 Area B	TSF-09/18	TSF-10	TSF-21	TSF-26	TSF-07	TSF-08	TSF-22	TSF-36	TSF-37	LOFT-12
Acenaphthene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Aroclor-1260	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Benzo(a)anthracene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Benzo(b)fluoranthene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Benzo(a)pyrene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Dichlorodifluoromethane	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
cis-1,2-Dichloroethylene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
trans-1,2-Dichloroethylene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Di-n-octylphthalate	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Naphthalene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Tetrachloroethylene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Trichloroethene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1,2,4-Trimethylbenzene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Arsenic	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Barium	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Chromium	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Manganese	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Mercury	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Uranium	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Am-241	----	----	4.64E-01	----	1.78E-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Cm-242	----	----	7.03E-71	----	----	----	----	----	----	----	----	----	----	----	----	9.84E-71	----	----	----	----	----
Cm-243/244	----	----	1.41E-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Co-60	----	1.62E-07	----	2.42E-06	----	3.72E-07	4.86E-08	6.09E-08	----	3.59E-08	4.49E-07	1.17E-04	----	----	2.97E-06	1.78E-04	1.10E-07	3.04E-06	----	----	----
Cs-134	----	----	----	----	----	----	2.06E-17	2.28E-17	----	----	----	4.95E-17	----	----	----	2.15E-17	----	----	----	----	----
Cs-137	----	----	5.28E+00	9.11E+00	----	4.39E+00	1.35E-01	3.99E-01	2.24E-01	4.98E+00	4.92E+01	4.03E+02	1.38E+00	----	4.85E+02	2.22E+01	3.41E-01	1.04E+00	----	----	----
Eu-154	----	----	----	----	----	----	----	----	----	3.54E-05	----	1.17E-03	----	----	----	----	----	----	----	----	----
H-3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	1.31E-02	----	----	----	----	----
Np-237	----	----	1.71E-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Pu-239/240	----	7.33E+00	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Ra-226	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	1.27E+01	----	----	----	----	----
Sr-90	----	----	----	----	----	----	----	1.56E-01	----	----	----	----	----	----	----	----	----	----	----	3.41E-01	----
Th-232	----	----	----	6.82E+01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Th-234	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
U-234	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
U-235	----	----	3.42E-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
U-238	----	----	----	9.55E+01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

Table B-60. (continued).

COPC	Inhalation of fugitive dust (mg/kg-day or pCi)	Inhalation of volatiles (mg/kg-day or pCi)
Acenaphthene	----	----
Aroclor-1260	2.87E-11	2.11E-08
Benzo(a)anthracene	----	----
Benzo(b)fluoranthene	----	----
Benzo(a)pyrene	2.74E-11	2.06E-10
Dichlorodifluoromethane	----	----
cis-1,2-Dichloroethylene	----	----
trans-1,2-Dichloroethylene	----	----
Di-n-octylphthalate	----	----
Naphthalene	----	----
Tetrachloroethylene	----	----
Trichloroethene	----	----
1,2,4-Trimethylbenzene	----	----
Arsenic	1.87E-09	----
Barium	4.06E-08	----
Chromium	----	----
Manganese	----	----
Mercury	2.72E-10	----
Uranium	1.48E-08	----
Am-241	1.24E-05	----
Cm-242	9.29E-76	----
Cm-243/244	1.86E-07	----
Co-60	8.09E-09	----
Cs-134	3.84E-21	----
Cs-137	6.25E-02	----
Eu-154	2.32E-09	----
H-3	5.36E-07	----
Np-237	2.26E-06	----
Pu-239/240	----	----
Ra-226	5.20E-04	----
Sr-90	6.62E-06	----
Th-232	6.36E-03	----
Th-234	----	----
U-234	----	----
U-235	4.52E-06	----
U-238	8.91E-03	----

Table B-61. Intakes (noncarcinogenic) - future worker at year 100.

	Ingestion of soil (mg/kg-day)																				
COPC	TSF-11	WRRTF-01	TSF-29	TSF-06 Area 1	TSF-06 Area 3	TSF-06 Area 5	TSF-06 Area 7	TSF-06 Area 8	TSF-06 Area 9	TSF-06 Area 11	TSF-06 Area 8	TSF-09/18	TSF-10	TSF-21	TSF-26	TSF-07	TSF-08	TSF-22	TSF-36	TSF-37	LOFT-12
Acenaphthene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Aroclor-1260	----	----	----	----		----	----	----	----	----	----	----	----	----	----	1.08E-07	----	----	----	----	----
Benzo(a)anthracene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Benzo(b)fluoranthene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Benzo(a)pyrene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	1.03E-07	----	----	----	----	----
Dichlorodifluoromethane	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
cis-1,2-Dichloroethylene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
trans-1,2-Dichloroethylene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Di-n-octylphthalate	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Naphthalene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Tetrachloroethylene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Trichloroethene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1,2,4-Trimethylbenzene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Arsenic	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	7.00E-06	----	----	----	----	----
Barium	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	1.52E-04	----	----	----	----	----
Chromium	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Manganese	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Mercury	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	1.02E-06	----	----	----	----	----
Uranium	----	----	1.81E-08	2.44E-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

Table B-61. (continued).

COPC	Inhalation of fugitive dust (mg/kg-day)	Inhalation of volatiles (mg/kg-day)
Acenaphthene	----	----
Aroclor-1260	8.04E-11	5.91E-08
Benzo(a)anthracene	----	----
Benzo(b)fluoranthene	----	----
Benzo(a)pyrene	7.68E-11	5.78E-10
Dichlorodifluoromethane	----	----
cis-1,2-Dichloroethylene	----	----
trans-1,2-Dichloroethylene	----	----
Di-n-octylphthalate	----	----
Naphthalene	----	----
Tetrachloroethylene	----	----
Trichloroethene	----	----
1,2,4-Trimethylbenzene	----	----
Arsenic	5.23E-09	----
Barium	1.14E-07	----
Chromium	----	----
Manganese	----	----
Mercury	7.60E-10	----
Uranium	4.15E-08	----

Table B-62. Intakes (carcinogenic) - future resident at year 100.

	Ingestion of soil (mg/kg-day or pCi)																				
COPC	TSF-11	WRRTF-01	TSF-29	TSF-06 Area 1	TSF-06 Area 3	TSF-06 Area 5	TSF-06 Area 7	TSF-06 Area 8	TSF-06 Area 9	TSF-06 Area 11	TSF-06 Area 8	TSF-09/18	TSF-10	TSF-21	TSF-26	TSF-07	TSF-08	TSF-22	TSF-36	TSF-37	LOFT-12
Acenaphthene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Aroclor-1260	----	----			----	----	----	----	----	----	----	----	----	----	----	1.65E-07	----	----	----	----	9.79E-07
Benzo(a)anthracene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Benzo(b)fluoranthene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Benzo(a)pyrene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	1.57E-07	----	----	4.94E-08	----	----
Dichlorodifluoromethane	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
cis-1,2-Dichloroethylene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
trans-1,2-Dichloroethylene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Di-n-octylphthalate	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Naphthalene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Tetrachloroethylene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Trichloroethene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1,2,4-Trimethylbenzene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Arsenic	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	2.14E-05	----	----	----	----	----
Barium	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	4.65E-04	----	----	----	----	----
Chromium	----	3.95E-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Manganese	----	----	----	----	----	----	----	----	----	----	----	----	1.02E-03	----	----	----	----	----	----	----	----
Mercury	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	3.11E-06	8.83E-05	----	----	----	----
Uranium	----	----	1.66E-08	7.46E-05	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Am-241	2.10E+02	----	4.09E+01	----	1.57E+01	----	----	----	----	----	----	----	----	----	----	2.20E+01	----	----	----	----	----
Cm-242	----	----	5.18E-69	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Cm-243/244	----	----	1.18E+00	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Co-60	----	3.65E-05	----	4.53E-04	----	2.79E-05	3.65E-06	4.56E-06	----	2.70E-06	3.37E-05	2.19E-02	----	----	2.28E-04	3.35E-02	1.57E-05	1.52E-05	----	----	----
Cs-134	----	----	----	----	----	----	1.52E-15	1.67E-15	----	----	----	9.13E-15	----	----	----	3.95E-15	----	----	----	----	----
Cs-137	----	----	4.43E+02	1.91E+03	----	3.69E+02	1.14E+01	3.35E+01	1.88E+01	4.17E+02	4.19E+03	8.45E+04	1.16E+02	----	4.13E+04	4.67E+03	7.16E+01	8.75E+01	----	----	----
Eu-154	----	----	----	----	----	----	----	----	----	2.75E-03	----	2.27E-01	----	----	----	----	----	----	----	----	----
H-3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	2.60E+00	----	----	----	3.91E-01	----
Np-237	----	----	1.51E+01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Pu-239/240	----	2.44E+03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Ra-226	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	2.81E+03	----	----	----	----	----
Sr-90	----	----	----	----	----	----	----	1.31E+01	----	----	----	----	----	----	----	----	----	----	----	2.94E+01	----
Th-232	----	----	----	1.51E+04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Th-234	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
U-234	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
U-235	----	----	3.02E+01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
U-238	----	----	----	2.11E+04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

Table B-62. (continued).

COPC	Ingestion of homegrown produce (mg/kg-day or pCi)																				
	TSF-11	WRRTF-01	TSF-29	TSF-06 Area 1	TSF-06 Area 3	TSF-06 Area 5	TSF-06 Area 7	TSF-06 Area 8	TSF-06 Area 9	TSF-06 Area 11	TSF-06 Area B	TSF-09/18	TSF-10	TSF-21	TSF-26	TSF-07	TSF-08	TSF-22	TSF-36	TSF-37	LOPT-12
Acenaphthene	4.11E-09	4.11E-09	4.11E-09	4.11E-09	4.11E-09	4.11E-09	4.11E-09	4.11E-09	4.11E-09	4.11E-09	4.11E-09	4.11E-09	4.11E-09	4.11E-09	4.11E-09	4.11E-09	4.11E-09	4.11E-09	4.11E-09	4.11E-09	4.11E-09
Aroclor-1260	----	----	----		----	----	----	----	----	----	----	----	----	----	----	4.73E-08	----	----	----	----	2.81E-07
Benzo(a)anthracene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Benzo(b)fluoranthene	3.30E-09	3.30E-09	3.30E-09	3.30E-09	3.30E-09	3.30E-09	3.30E-09	3.30E-09	3.30E-09	3.30E-09	3.30E-09	3.30E-09	3.30E-09	3.30E-09	3.30E-09	3.30E-09	3.30E-09	3.30E-09	3.30E-09	3.30E-09	3.30E-09
Benzo(a)pyrene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	1.46E-07	----	----	4.58E-08	----	----
Dichlorodifluoromethane	5.83E-08	5.83E-08	5.83E-08	5.83E-08	5.83E-08	5.83E-08	5.83E-08	5.83E-08	5.83E-08	5.83E-08	5.83E-08	5.83E-08	5.83E-08	5.83E-08	5.83E-08	5.83E-08	5.83E-08	5.83E-08	5.83E-08	5.83E-08	5.83E-08
cis-1,2-Dichloroethylene	7.52E-06	7.52E-06	7.52E-06	7.52E-06	7.52E-06	7.52E-06	7.52E-06	7.52E-06	7.52E-06	7.52E-06	7.52E-06	7.52E-06	7.52E-06	7.52E-06	7.52E-06	7.52E-06	7.52E-06	7.52E-06	7.52E-06	7.52E-06	7.52E-06
trans-1,2-Dichloroethylene	1.07E-05	1.07E-05	1.07E-05	1.07E-05	1.07E-05	1.07E-05	1.07E-05	1.07E-05	1.07E-05	1.07E-05	1.07E-05	1.07E-05	1.07E-05	1.07E-05	1.07E-05	1.07E-05	1.07E-05	1.07E-05	1.07E-05	1.07E-05	1.07E-05
Di-n-octylphthalate	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Naphthalene	2.54E-07	2.54E-07	2.54E-07	2.54E-07	2.54E-07	2.54E-07	2.54E-07	2.54E-07	2.54E-07	2.54E-07	2.54E-07	2.54E-07	2.54E-07	2.54E-07	2.54E-07	2.54E-07	2.54E-07	2.54E-07	2.54E-07	2.54E-07	2.54E-07
Tetrachloroethylene	6.36E-07	6.36E-07	6.36E-07	6.36E-07	6.36E-07	6.36E-07	6.36E-07	6.36E-07	6.36E-07	6.36E-07	6.36E-07	6.36E-07	6.36E-07	6.36E-07	6.36E-07	6.36E-07	6.36E-07	6.36E-07	6.36E-07	6.36E-07	6.36E-07
Trichloroethene	4.06E-07	4.06E-07	4.06E-07	4.06E-07	4.06E-07	4.06E-07	4.06E-07	4.06E-07	4.06E-07	4.06E-07	4.06E-07	4.06E-07	4.06E-07	4.06E-07	4.06E-07	4.06E-07	4.06E-07	4.06E-07	4.06E-07	4.06E-07	4.06E-07
1,2,4-Trimethylbenzene	7.43E-08	7.43E-08	7.43E-08	7.43E-08	7.43E-08	7.43E-08	7.43E-08	7.43E-08	7.43E-08	7.43E-08	7.43E-08	7.43E-08	7.43E-08	7.43E-08	7.43E-08	7.43E-08	7.43E-08	7.43E-08	7.43E-08	7.43E-08	7.43E-08
Arsenic	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	2.43E-06	----	----	----	----	----
Barium	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	4.99E-04	----	----	----	----	----
Chromium	1.71E-08	5.21E-07	1.71E-08	1.71E-08	1.71E-08	1.71E-08	1.71E-08	1.71E-08	1.71E-08	1.71E-08	1.71E-08	1.71E-08	1.71E-08	1.71E-08	1.71E-08	1.71E-08	1.71E-08	1.71E-08	1.71E-08	1.71E-08	1.71E-08
Manganese	----	----	----	----	----	----	----	----	----	----	----	----	6.93E-02	----	----	----	----	----	----	----	----
Mercury	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	1.41E-04	4.00E-03	----	----	----	----
Uranium	3.88E-08	3.88E-08	4.00E-08	5.70E-06	3.88E-08	3.88E-08	3.88E-08	3.88E-08	3.88E-08	3.88E-08	3.88E-08	3.88E-08	3.88E-08	3.88E-08	3.88E-08	3.88E-08	3.88E-08	3.88E-08	3.88E-08	3.88E-08	3.88E-08
Am-241	3.59E+00	----	7.00E-01	----	2.69E-01	----	----	----	----	----	----	----	----	----	----	3.77E-01	----	----	----	----	----
Cm-242	3.46E-78	3.46E-78	5.40E-74	3.46E-78	3.46E-78	3.46E-78	3.46E-78	3.46E-78	3.46E-78	3.46E-78	3.46E-78	3.46E-78	3.46E-78	3.46E-78	3.46E-78	3.46E-78	3.46E-78	3.46E-78	3.46E-78	3.46E-78	3.46E-78
Cm-243/244	----	----	3.66E-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Co-60	----	1.01E-06	----	1.26E-05	----	7.74E-07	1.01E-07	1.27E-07	----	7.51E-08	9.36E-07	6.08E-04	----	----	6.34E-06	9.30E-04	4.35E-07	4.22E-07	----	----	----
Cs-134	----	----	----	----	----	----	2.63E-17	2.90E-17	----	----	----	1.58E-16	----	----	----	6.85E-17	----	----	----	----	----
Cs-137	----	----	1.12E+02	4.86E+02	----	9.36E+01	2.89E+00	8.50E+00	4.77E+00	1.06E+02	1.05E+03	2.15E+04	2.93E+01	----	1.05E+04	1.18E+03	1.82E+01	7.22E+01	----	----	----
Eu-154	----	----	----	----	----	----	----	----	----	3.24E-06	----	2.68E-04	----	----	----	----	----	----	----	----	----
H-3	1.88E-05	1.88E-05	1.88E-05	1.88E-05	1.88E-05	1.88E-05	1.88E-05	1.88E-05	1.88E-05	1.88E-05	1.88E-05	1.88E-05	1.88E-05	1.88E-05	1.88E-05	3.88E-01	1.88E-05	1.88E-05	1.88E-05	5.83E-02	1.88E-05
Np-237	3.37E-09	3.37E-09	7.35E-01	3.37E-09	3.37E-09	3.37E-09	3.37E-09	3.37E-09	3.37E-09	3.37E-09	3.37E-09	3.37E-09	3.37E-09	3.37E-09	3.37E-09	3.37E-09	3.37E-09	3.37E-09	3.37E-09	3.37E-09	3.37E-09
Pu-239/240	----	3.47E+02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Ra-226	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	6.91E+03	----	----	----	----	----
Sr-90	----	----	----	----	----	----	----	2.03E+01	----	----	----	----	----	----	----	----	----	----	----	4.54E+01	----
Th-232	----	----	----	5.45E+04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Th-234	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
U-234	3.72E+02	3.72E+02	3.72E+02	3.72E+02	3.72E+02	3.72E+02	3.72E+02	3.72E+02	3.72E+02	3.72E+02	3.72E+02	3.72E+02	3.72E+02	3.72E+02	3.72E+02	3.72E+02	3.72E+02	3.72E+02	3.72E+02	3.72E+02	3.72E+02
U-235	----	----	4.23E+00	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
U-238	----	----	----	2.95E+03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

Table B-62. (continued).

COPC	TSF-11	WRRTF-01	TSF-29	TSF-06 Area 1	TSF-06 Area 3	TSF-06 Area 5	TSF-06 Area 7	TSF-06 Area 8	TSF-06 Area 9	TSF-06 Area 11	TSF-06 Area B	TSF-09/18	TSF-10	TSF-21	TSF-26	TSF-07	TSF-08	TSF-22	TSF-36	TSF-37	LOPT-12
	External radiation exposure (year per pCi/g)																				
Acenaphthene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Aroclor-1260	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Benzo(a)anthracene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Benzo(b)fluoranthene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Benzo(a)pyrene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Dichlorodifluoromethane	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
cis-1,2-Dichloroethylene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
trans-1,2-Dichloroethylene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Di-n-octylphthalate	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Naphthalene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Tetrachloroethylene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Trichloroethene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1,2,4-Trimethylbenzene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Arsenic	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Barium	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Chromium	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Manganese	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Mercury	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Uranium	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Am-241	4.78E+00	----	9.32E-01	----	3.58E-01	----	----	----	----	----	----	----	----	----	----	5.02E-01	----	----	----	----	----
Cm-242	----	----	1.18E-70	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Cm-243/244	----	----	2.69E-02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Co-60	----	8.31E-07	----	1.03E-05	----	6.36E-07	8.31E-08	1.04E-07	----	6.16E-08	7.69E-07	4.99E-04	----	----	5.21E-06	7.63E-04	3.57E-07	3.46E-07	----	----	----
Cs-134	----	----	----	----	----	----	3.47E-17	3.81E-17	----	----	----	2.08E-16	----	----	----	9.02E-17	----	----	----	----	----
Cs-137	----	----	1.01E+01	4.36E+01	----	8.41E+00	2.59E-01	7.64E-01	4.29E-01	9.52E+00	9.41E+01	1.93E+03	2.64E+00	----	9.41E+02	1.06E+02	1.63E+00	2.00E+00	----	----	----
Eu-154	----	----	----	----	----	----	----	----	----	6.27E-05	----	5.18E-03	----	----	----	----	----	----	----	----	----
H-3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	5.94E-02	----	----	----	8.90E-03	----
Np-237	----	----	3.45E-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Pu-239/240	----	5.55E+01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Ra-226	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	6.40E+01	----	----	----	----	----
Sr-90	----	----	----	----	----	----	----	2.98E-01	----	----	----	----	----	----	----	----	----	----	----	6.69E-01	----
Th-232	----	----	----	3.44E+02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Th-234	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
U-234	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
U-235	----	----	6.89E-01	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
U-238	----	----	----	4.81E+02	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

Table B-62. (continued).

COPC	Inhalation of fugitive dust (mg/kg-day or pCi)	Inhalation of volatiles (mg/kg-day or pCi)	Ingestion of groundwater (mg/kg-day or pCi)	Dermal absorption of groundwater (mg/kg-day or pCi)	Inhalation of volatiles from indoor water use (mg/kg-day or pCi)
Acenaphthene	----	0.00E+00	7.05E-06	2.04E-06	1.10E-04
Aroclor-1260	2.54E-11	1.78E-08	----	----	----
Benzo(a)anthracene	----	0.00E+00	2.58E-06	4.45E-06	4.03E-05
Benzo(b)fluoranthene	----	0.00E+00	2.23E-06	5.69E-06	3.48E-05
Benzo(a)pyrene	2.31E-11	1.73E-10	----	----	----
Dichlorodifluoromethane	----	0.00E+00	2.35E-06	5.99E-08	3.66E-05
cis-1,2-Dichloroethylene	----	0.00E+00	8.22E-04	1.75E-05	1.28E-02
trans-1,2-Dichloroethylene	----	0.00E+00	1.17E-03	2.50E-05	1.83E-02
Di-n-octylphthalate	----	0.00E+00	1.17E-05	6.71E-04	1.83E-04
Naphthalene	----	0.00E+00	2.35E-05	3.44E-06	3.66E-04
Tetrachloroethylene	----	0.00E+00	5.87E-05	5.99E-06	9.16E-04
Trichloroethene	----	0.00E+00	5.87E-05	2.00E-06	9.16E-04
1,2,4-Trimethylbenzene	----	0.00E+00	3.52E-06	1.27E-06	5.50E-05
Arsenic	3.14E-09	----	----	----	----
Barium	6.81E-08	----	----	----	----
Chromium	1.49E-08	----	1.40E-03	2.97E-06	2.18E-02
Manganese	4.00E-08	----	----	----	----
Mercury	5.56E-10	----	----	----	----
Uranium	2.49E-08	----	5.64E-05	1.20E-07	8.81E-04
Am-241	5.77E-12	----	----	----	----
Cm-242	2.18E-82	----	7.25E-71	1.54E-73	1.13E-69
Cm-243/244	4.96E-14	----	----	----	----
Co-60	6.19E-15	----	----	----	----
Cs-134	8.62E-28	----	----	----	----
Cs-137	7.81E-09	----	----	----	----
Eu-154	1.52E-15	----	----	----	----
H-3	4.54E-13	----	2.75E-02	5.85E-05	4.29E-01
Np-237	6.37E-13	----	1.52E-05	3.22E-08	2.37E-04
Pu-239/240	1.09E-10	----	----	----	----
Ra-226	4.88E-10	----	----	----	----
Sr-90	3.34E-13	----	----	----	----
Th-232	5.97E-09	----	----	----	----
Th-234	----	----	----	----	----
U-234	----	----	6.30E+05	1.34E+03	9.83E+06
U-235	1.27E-12	----	----	----	----
U-238	8.37E-09	----	----	----	----

Table B-63. Intakes (noncarcinogenic) - future resident at year 100

COPC	Ingestion of soil (mg/kg-day)																				
	TSF-11	WRRTF-01	TSF-29	TSF-06 Area 1	TSF-06 Area 3	TSF-06 Area 5	TSF-06 Area 7	TSF-06 Area 8	TSF-06 Area 9	TSF-06 Area 11	TSF-06 Area B	TSF-09/18	TSF-10	TSF-21	TSF-26	TSF-07	TSF-08	TSF-22	TSF-36	TSF-37	LOFT-12
Acenaphthene	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		—	—	—	—	—
Aroclor-1260	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.84E-07	—	—	—	—	2.28E-06
Benzo(a)anthracene	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Benzo(b)fluoranthene	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Benzo(a)pyrene	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.67E-07	—	—	1.15E-07	—	—
Dichlorodifluoromethane	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
cis-1,2-Dichloroethylene	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
trans-1,2-Dichloroethylene	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Di-n-octylphthalate	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Naphthalene	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tetrachloroethylene	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Trichloroethene	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1,2,4-Trimethylbenzene	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Arsenic	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.00E-05	—	—	—	—	—
Barium	—	9.21E-04	—	—	—	—	—	—	—	—	—	—	—	—	—	1.08E-03	—	—	—	—	—
Chromium	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manganese	—	—	—	—	—	—	—	—	—	—	—	—	2.38E-03	—	—	—	—	—	—	—	—
Mercury	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.27E-06	2.06E-04	—	—	—	—
Uranium	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Table B-63. (continued).

COPC	Ingestion of homegrown produce (mg/kg-day)																				
	TSF-11	WRRTF-01	TSF-29	TSF-06 Area 1	TSF-06 Area 3	TSF-06 Area 5	TSF-06 Area 7	TSF-06 Area 8	TSF-06 Area 9	TSF-06 Area 11	TSF-06 Area B	TSF-09/18	TSF-10	TSF-21	TSF-26	TSF-07	TSF-08	TSF-22	TSF-36	TSF-37	LOFT-12
Acenaphthene	9.57E-09	9.57E-09	9.57E-09	9.57E-09	9.57E-09	9.57E-09	9.57E-09	9.57E-09	9.57E-09	9.57E-09	9.57E-09	9.57E-09	9.57E-09	9.57E-09	9.57E-09	9.57E-09	9.57E-09	9.57E-09	9.57E-09	9.57E-09	9.57E-09
Aroclor-1260	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.10E-07	—	—	—	—	6.55E-07
Benzo(a)anthracene	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Benzo(b)fluoranthene	7.68E-09	7.68E-09	7.68E-09	7.68E-09	7.68E-09	7.68E-09	7.68E-09	7.68E-09	7.68E-09	7.68E-09	7.68E-09	7.68E-09	7.68E-09	7.68E-09	7.68E-09	7.68E-09	7.68E-09	7.68E-09	7.68E-09	7.68E-09	7.68E-09
Benzo(a)pyrene	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.39E-07	—	—	1.07E-07	—	—
Dichlorodifluoromethane	1.36E-07	1.36E-07	1.36E-07	1.36E-07	1.36E-07	1.36E-07	1.36E-07	1.36E-07	1.36E-07	1.36E-07	1.36E-07	1.36E-07	1.36E-07	1.36E-07	1.36E-07	1.36E-07	1.36E-07	1.36E-07	1.36E-07	1.36E-07	1.36E-07
cis-1,2-Dichloroethylene	1.75E-05	1.75E-05	1.75E-05	1.75E-05	1.75E-05	1.75E-05	1.75E-05	1.75E-05	1.75E-05	1.75E-05	1.75E-05	1.75E-05	1.75E-05	1.75E-05	1.75E-05	1.75E-05	1.75E-05	1.75E-05	1.75E-05	1.75E-05	1.75E-05
trans-1,2-Dichloroethylene	2.50E-05	2.50E-05	2.50E-05	2.50E-05	2.50E-05	2.50E-05	2.50E-05	2.50E-05	2.50E-05	2.50E-05	2.50E-05	2.50E-05	2.50E-05	2.50E-05	2.50E-05	2.50E-05	2.50E-05	2.50E-05	2.50E-05	2.50E-05	2.50E-05
Di-n-octylphthalate	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Naphthalene	5.91E-07	5.91E-07	5.91E-07	5.91E-07	5.91E-07	5.91E-07	5.91E-07	5.91E-07	5.91E-07	5.91E-07	5.91E-07	5.91E-07	5.91E-07	5.91E-07	5.91E-07	5.91E-07	5.91E-07	5.91E-07	5.91E-07	5.91E-07	5.91E-07
Tetrachloroethylene	1.48E-06	1.48E-06	1.48E-06	1.48E-06	1.48E-06	1.48E-06	1.48E-06	1.48E-06	1.48E-06	1.48E-06	1.48E-06	1.48E-06	1.48E-06	1.48E-06	1.48E-06	1.48E-06	1.48E-06	1.48E-06	1.48E-06	1.48E-06	1.48E-06
Trichloroethene	9.44E-07	9.44E-07	9.44E-07	9.44E-07	9.44E-07	9.44E-07	9.44E-07	9.44E-07	9.44E-07	9.44E-07	9.44E-07	9.44E-07	9.44E-07	9.44E-07	9.44E-07	9.44E-07	9.44E-07	9.44E-07	9.44E-07	9.44E-07	9.44E-07
1,2,4-Trimethylbenzene	1.73E-07	1.73E-07	1.73E-07	1.73E-07	1.73E-07	1.73E-07	1.73E-07	1.73E-07	1.73E-07	1.73E-07	1.73E-07	1.73E-07	1.73E-07	1.73E-07	1.73E-07	1.73E-07	1.73E-07	1.73E-07	1.73E-07	1.73E-07	1.73E-07
Arsenic	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.64E-06	—	—	—	—	—
Barium	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.16E-03	—	—	—	—	—
Chromium	3.98E-08	1.21E-06	3.98E-08	3.98E-08	3.98E-08	3.98E-08	3.98E-08	3.98E-08	3.98E-08	3.98E-08	3.98E-08	3.98E-08	3.98E-08	3.98E-08	3.98E-08	3.98E-08	3.98E-08	3.98E-08	3.98E-08	3.98E-08	3.98E-08
Manganese	—	—	—	—	—	—	—	—	—	—	—	—	1.61E-01	—	—	—	—	—	—	—	—
Mercury	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.28E-04	9.31E-03	—	—	—	—
Uranium	9.03E-08	9.03E-08	9.32E-08	1.33E-05	9.03E-08	9.03E-08	9.03E-08	9.03E-08	9.03E-08	9.03E-08	9.03E-08	9.03E-08	9.03E-08	9.03E-08	9.03E-08	9.03E-08	9.03E-08	9.03E-08	9.03E-08	9.03E-08	9.03E-08

Table B-63. (continued).

COPC	Inhalation of fugitive dust (mg/kg-day)	Inhalation of volatiles (mg/kg-day)	Ingestion of groundwater (mg/kg-day)	Dermal absorption of groundwater (mg/kg-day)	Inhalation of water vapors from indoor water use (mg/kg-day)
Acenaphthene	—	0.00E+00	1.64E-05	4.75E-06	2.56E-04
Aroclor-1260	5.92E-11	4.16E-08	—	—	—
Benzo(a)anthracene	—	0.00E+00	6.03E-06	1.04E-05	9.40E-05
Benzo(b)fluoranthene	—	0.00E+00	5.21E-06	1.33E-05	8.12E-05
Benzo(a)pyrene	5.38E-11	4.04E-10	—	—	—
Dichlorodifluoromethane	—	0.00E+00	5.48E-06	1.40E-07	8.55E-05
cis-1,2-Dichloroethylene	—	0.00E+00	1.92E-03	4.08E-05	2.99E-02
trans-1,2-Dichloroethylene	—	0.00E+00	2.74E-03	5.82E-05	4.27E-02
Di-n-octylphthalate	—	0.00E+00	2.74E-05	1.57E-03	4.27E-04
Naphthalene	—	0.00E+00	5.48E-05	8.03E-06	8.55E-04
Tetrachloroethylene	—	0.00E+00	1.37E-04	1.40E-05	2.14E-03
Trichloroethene	—	0.00E+00	1.37E-04	4.66E-06	2.14E-03
1,2,4-Trimethylbenzene	—	0.00E+00	8.22E-06	2.97E-06	1.28E-04
Arsenic	7.32E-09	—	—	—	—
Barium	1.59E-07	—	—	—	—
Chromium	3.47E-08	—	3.26E-03	6.93E-06	5.09E-02
Manganese	9.33E-08	—	—	—	—
Mercury	1.30E-09	—	—	—	—
Uranium	—	—	1.32E-04	2.80E-07	2.05E-03

Table B-64. Toxicity data for WAG 1 COPCs.

COPC	Contaminant type	Weight of evidence	Slope factor: Ingestion (mg/kg-day)$^{-1}$ or (pCi)$^{-1}$	Slope factor: Inhalation (mg/kg-day)$^{-1}$ or (pCi)$^{-1}$	Slope factor: External exposure (Risk/yr per pCi/g soil)	Oral RfD (mg/kg/day)	Inhalation RfD (mg/kg/day)
Acenaphthene	Organic	—	—	—	—	6.00E-02 [I]	—
Aroclor-1260	Organic	B2	7.70E+00 [I]	—	—	—	—
Benzo(a)anthracene	Organic	B2	7.30E-01 [b]	6.10E-01 [b]	—	—	—
Benzo(b)fluoranthene	Organic	B2	7.30E-01 [b]	6.10E-01 [b]	—	—	—
Benzo(a)pyrene	Organic	B2	7.30E+00	6.10E+00	—	—	—
Dichlorodifluoromethane	Organic	—	—	—	—	2.00E-01 [I]	5.71E-02 [f]
cis-1,2-Dichloroethylene	Organic	—	—	—	—	9.00E-03 [I]	—
trans-1,2-Dichloroethylene	Organic	—	—	—	—	9.00E-03 [I]	—
Di-n-octylphthalate	Organic	—	—	—	—	2.00E-02	—
Naphthalene	Organic	D	—	—	—	4.00E-02 [f]	—
Tetrachloroethylene	Organic	B2	5.20E-02 [f]	2.00E-03 [f]	—	1.00E-02 [f]	1.00E-02 [f]
Trichloroethene	Organic	C	1.10E-02 [f]	6.00E-03 [f]	—	6.00E-03 [f]	6.00E-03 [f]
1,2,4-Trimethylbenzene	Organic	—	—	—	—	5.00E-02 [f]	—
Arsenic	Inorganic	A	1.50E+00 [I]	5.00E+01 [H]	—	3.00E-04 [I]	—
Barium	Inorganic	—	—	—	—	7.00E-02 [I]	1.40E-02 [I]
Chromium	Inorganic	A	—	1.20E-02 [c, I]	—	5.00E-03 [I]	—
Manganese (food)	Inorganic	D	—	—	—	1.40E-01 [I]	4.00E-04 [d, I]
Manganese (water)	Inorganic	D	—	—	—	5.00E-03 [I]	4.00E-04 [d, I]
Mercury	Inorganic	D	—	—	—	3.00E-04 [H]	3.00E-04 [d, I]
Uranium	Inorganic	—	—	—	—	3.00E-03 [I]	—
Am-241	Radionuclide	A	3.28E-10 [H]	3.85E-08 [H]	4.59E-09 [H]	—	—
Cm-242	Radionuclide	A	3.83E-11 [H]	3.16E-09 [H]	2.34E-11 [H]	—	—
Cm-243/244 [a]	Radionuclide	A	2.52E-10 [H]	2.90E-08 [H]	1.72E-07 [H]	—	—
Co-60	Radionuclide	A	1.89E-11 [H]	6.88E-11 [H]	9.76E-06 [H]	—	—
Cs-134	Radionuclide	A	4.73E-11 [H]	2.89E-11 [H]	5.88E-06 [H]	—	—
Cs-137 (+D)	Radionuclide	A	3.16E-11 [H]	1.91E-11 [H]	2.09E-06 [H]	—	—
Eu-154	Radionuclide	A	9.37E-12 [H]	9.15E-11 [H]	4.65E-06 [H]	—	—

Table B-64. (Continued).

COPC	Contaminant type	Weight of evidence	Slope factor: Ingestion (mg/kg-day)$^{-1}$ or (pCi)$^{-1}$	Slope factor: Inhalation (mg/kg-day)$^{-1}$ or (pCi)$^{-1}$	Slope factor: External exposure (Risk/yr per pCi/g soil)	Oral RfD (mg/kg/day)	Inhalation RfD (mg/kg/day)
H-3	Radionuclide	A	7.15E-14 [H]	9.59E-14 [H]	0.00E+00 [H]	—	—
Np-237 (+D)	Radionuclide	A	3.00E-10 [H]	3.45E-08 [H]	4.62E-07 [H]	—	—
Pu-239/240 [a]	Radionuclide	A	3.16E-10 [H]	2.78E-08 [H]	1.87E-11 [H]	—	—
Ra-226 (+D)	Radionuclide	A	2.96E-10 [H]	2.75E-09 [H]	6.74E-06 [H]	—	—
Sr-90 (+D)	Radionuclide	A	5.59E-11 [H]	6.93E-11 [H]	0.00E+00 [H]	—	—
Th-232	Radionuclide	A	3.28E-11 [H]	1.93E-08 [H]	1.97E-11 [H]	—	—
Th-234	Radionuclide	A	1.93E-11 [H]	1.90E-11 [H]	3.50E-09 [H H]	—	—
U-234	Radionuclide	A	4.44E-11 [H]	1.40E-08 [H]	2.14E-11 [H]	—	
U-235 (+D)	Radionuclide	A	4.70E-11 [H]	1.30E-08 [H]	2.65E-07 [H]	—	—
U-238 (+D)	Radionuclide	A	6.20E-11 [H]	1.24E-08 [H]	6.57E-08 [H]	—	—

Note: "—" indicates that data is not available or is not applicable.
+D: Indicates that toxicological information is included for decay products.
I: Toxicity values taken form IRIS.
H: Toxicity values taken from HEAST.
a. The most conservative toxicological data are provided.
b. Toxicity values are derived based on Relative Potency factors, Development of Toxicity Values for PAHs to Use in Human Health Risk Assessments.
c. Inhalation Unit Risk value, in $\mu g/m^3$.
d. Value is a Reference Concentration, no RfC, in mg/m^3
e. Chromium also has an Inhalation value of 1.20E-02 mg/m^3 from IRIS.
f. Toxicity values taken from EPA Region III.

Table B-65. Risks - current worker at year 0.

COPC	Ingestion of soil																				
	TSF-11	WRRTF-01	TSF-29	TSF-06 Area 1	TSF-06 Area 3	TSF-06 Area 5	TSF-06 Area 7	TSF-06 Area 8	TSF-06 Area 9	TSF-06 Area 11	TSF-06 Area B	TSF-09/18	TSF-10	TSF-21	TSF-26	TSF-07	TSF-08	TSF-22	TSF-36	TSF-37	LOFT-12
Acenaphthene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Aroclor-1260	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	3E-07	----	----	----	----	----
Benzo(a)anthracene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Benzo(b)fluoranthene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Benzo(a)pyrene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	3E-07	----	----	----	----	----
Dichlorodifluoromethane	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
cis-1,2-Dichloroethylene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
trans-1,2-Dichloroethylene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Di-n-octylphthalate	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Naphthalene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Tetrachloroethylene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Trichloroethene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1,2,4-Trimethylbenzene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Arsenic	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	4E-06	----	----	----	----	----
Barium	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	NTD	----	----	----	----	----
Chromium	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Manganese	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Mercury	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	NTD	----	----	----	----	----
Uranium	----	----	NTD	NTD	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Am-241	----	----	1E-08	----	2E-08	----	----	----	----	----	----	----	----	----	----	2E-09	----	----	----	----	----
Cm-242 *	----	----	6E-12	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Cm-243/244	----	----	3E-09	----	----	----	----	----										----	----	----	----
Co-60	----	----	----	1E-09	----	3E-10	2E-10	3E-10	----	2E-10	3E-10	6E-08	----	----	6E-09	1E-07	----	2E-10	----	----	----
Cs-134	----	----	----	----	----	----	2E-10	2E-10	----	----	----	5E-11	----	----	----	2E-11	----	----	----	----	----
Cs-137	----	----	1E-07	2E-07	----	1E-07	2E-08	5E-08	3E-08	7E-07	1E-06	7E-06	5E-08	----	3E-05	4E-07	6E-09	2E-08	----	----	----
Eu-154	----	----	----	----	----	----	----	----	----	4E-10	----	2E-09	----	----	----	----	----	----	----	----	----
H-3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	1E-11	----	----	----	----	----
Np-237	----	----	4E-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Pu-239/240	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Ra-226	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	2E-07	----	----	----	----	----
Sr-90	----	----	----	----	----	----	----	4E-08	----	----	----	----	----	----	----	----	----	----	----	----	----
Th-232	----	----	----	1E-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Th-234	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	3E-11	----	----	----	----	----
U-234	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
U-235	----	----	1E-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
U-238	----	----	----	3E-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Total risks by site and pathway:	0E+00	0E+00	1E-07	6E-07	2E-08	1E-07	2E-08	1E-07	3E-08	7E-07	1E-06	7E-06	5E-08	0E+00	3E-05	5E-06	6E-09	2E-08	0E+00	0E+00	0E+00

"----" indicates that the contaminant is not a COPC in the medium or at the site.
NTD indicates that toxicity data is not available.

Table B-65. (continued)

COPC	TSF-11	WRRTF-01	TSF-29	TSF-06 Area 1	TSF-06 Area 3	TSF-06 Area 5	TSF-06 Area 7	TSF-06 Area 8	TSF-06 Area 9	TSF-06 Area 11	TSF-06 Area B	TSF-09/18	TSF-10	TSF-21	TSF-26	TSF-07	TSF-08	TSF-22	TSF-36	TSF-37	LOFT-12
	External radiation exposure																				
Acenaphthene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Aroclor-1260	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Benzo(a)anthracene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Benzo(b)fluoranthene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Benzo(a)pyrene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Dichlorodifluoromethane	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
cis-1,2-Dichloroethylene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
trans-1,2-Dichloroethylene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Di-n-octylphthalate	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Naphthalene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Tetrachloroethylene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Trichloroethene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1,2,4-Trimethylbenzene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Arsenic	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Barium	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Chromium	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Manganese	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Mercury	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Uranium	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Am-241	----	----	3E-09	----	1E-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Cm-242	----	----	5E-14	----	----	----	----	----	----	----	----	----	----	----	----	7E-14	----	----	----	----	----
Cm-243/244	----	----	3E-08	----	----	----	----	----	----	----	----	----							----	----	----
Co-60	----	8E-07	----	1E-05	----	2E-06	2E-07	3E-07	----	2E-07	2E-06	6E-04	----	----	1E-05	9E-04	6E-07	2E-05	----	----	----
Cs-134	----	----	----	----	----	----	5E-08	5E-08	----	----	----	1E-07	----	----	----	5E-08	----	----	----	----	----
Cs-137	----	----	1E-04	2E-04	----	9E-05	3E-06	8E-06	5E-06	1E-04	1E-03	8E-03	3E-05	----	1E-02	5E-04	7E-06	2E-05	----	----	----
Eu-154	----	----	----	----	----	----	----	----	----	4E-07	----	1E-05	----	----	----	----	----	----	----	----	----
H-3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	NTD	----	----	----	----	----
Np-237	----	----	8E-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Pu-239/240	----	1E-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Ra-226	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	9E-05	----	----	----	----	----
Sr-90	----	----	----	----	----	----	----	NTD	----	----	----	----	----	----	----	----	----	----	----	NTD	----
Th-232	----	----	----	1E-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Th-234	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	9E-11	----	----	----	----	----
U-234	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
U-235	----	----	9E-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
U-238	----	----	----	6E-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Total risks by site and pathway:	0E+00	8E-07	1E-04	2E-04	1E-09	9E-05	3E-06	9E-06	5E-06	1E-04	1E-03	9E-03	3E-05	0E+00	1E-02	1E-03	8E-06	4E-05	0E+00	0E+00	0E+00

"----" indicates that the contaminant is not a COPC in the medium or at the site.
NTD indicates that toxicity data is not available.

Table B-65. (continued)

COPC	Inhalation of fugitive dust	Inhalation of volatiles
Acenaphthene	----	----
Aroclor-1260	NTD	NTD
Benzo(a)anthracene	----	----
Benzo(b)fluoranthene	----	----
Benzo(a)pyrene	2E-10	1E-09
Dichlorodifluoromethane	----	----
cis-1,2-Dichloroethylene	----	----
trans-1,2-Dichloroethylene	----	----
Di-n-octylphthalate	----	----
Naphthalene	----	----
Tetrachloroethylene	----	----
Trichloroethene	----	----
1,2,4-Trimethylbenzene	----	----
Arsenic	9E-08	----
Barium	NTD	----
Chromium	----	----
Manganese	----	----
Mercury	NTD	----
Uranium	NTD	----
Am-241	6E-13	----
Cm-242	9E-17	----
Cm-243/244	6E-14	----
Co-60	3E-13	----
Cs-134	5E-17	----
Cs-137	1E-11	----
Eu-154	6E-16	----
H-3	1E-17	----
Np-237	8E-14	----
Pu-239/240	----	----
Ra-226	1E-12	----
Sr-90	5E-15	----
Th-232	1E-10	----
Th-234	2E-17	----
U-234	----	----
U-235	6E-14	----
U-238	1E-10	----
Total risks by site and pathway:	9E-08	1E-09

"----" indicates that the contaminant is not a COPC in the medium or at the site.
NTD indicates that toxicity data is not available.

Table B-65. (continued)

COPC	Total risks																				
	TSF-11	WRRTF-01	TSF-29	TSF-06 Area 1	TSF-06 Area 3	TSF-06 Area 5	TSF-06 Area 7	TSF-06 Area 8	TSF-06 Area 9	TSF-06 Area 11	TSF-06 Area B	TSF-09/18	TSF-10	TSF-21	TSF-26	TSF-07	TSF-08	TSF-22	TSF-36	TSF-37	LOFT-12
Acenaphthene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Aroclor-1260	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	3E-07	----	----	----	----	----
Benzo(a)anthracene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Benzo(b)fluoranthene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Benzo(a)pyrene	1E-09	1E-09	1E-09	1E-09	1E-09	1E-09	1E-09	1E-09	1E-09	1E-09	1E-09	1E-09	1E-09	1E-09	1E-09	3E-07	1E-09	1E-09	1E-09	1E-09	1E-09
Dichlorodifluoromethane	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
cis-1,2-Dichloroethylene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
trans-1,2-Dichloroethylene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Di-n-octylphthalate	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Naphthalene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Tetrachloroethylene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Trichloroethene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1,2,4-Trimethylbenzene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Arsenic	9E-08	9E-08	9E-08	9E-08	9E-08	9E-08	9E-08	9E-08	9E-08	9E-08	9E-08	9E-08	9E-08	9E-08	9E-08	4E-06	9E-08	9E-08	9E-08	9E-08	9E-08
Barium	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Chromium	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Manganese	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Mercury	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Uranium	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Am-241	6E-13	6E-13	2E-08	6E-13	2E-08	6E-13	6E-13	6E-13	6E-13	6E-13	6E-13	6E-13	6E-13	6E-13	6E-13	2E-09	6E-13	6E-13	6E-13	6E-13	6E-13
Cm-242	9E-17	9E-17	6E-12	9E-17	9E-17	9E-17	9E-17	9E-17	9E-17	9E-17	9E-17	9E-17	9E-17	9E-17	9E-17	7E-14	9E-17	9E-17	9E-17	9E-17	9E-17
Cm-243/244	6E-14	6E-14	3E-08	6E-14	6E-14	6E-14	6E-14	6E-14	6E-14	6E-14	6E-14	6E-14	6E-14	6E-14	6E-14	6E-14	6E-14	6E-14	6E-14	6E-14	6E-14
Co-60	3E-13	8E-07	3E-13	1E-05	3E-13	2E-06	2E-07	3E-07	3E-13	2E-07	2E-06	6E-04	3E-13	3E-13	1E-05	9E-04	6E-07	2E-05	3E-13	3E-13	3E-13
Cs-134	5E-17	5E-17	5E-17	5E-17	5E-17	5E-17	5E-08	6E-08	5E-17	5E-17	5E-17	1E-07	5E-17	5E-17	5E-17	5E-08	5E-17	5E-17	5E-17	5E-17	5E-17
Cs-137	1E-11	1E-11	1E-04	2E-04	1E-11	9E-05	3E-06	8E-06	5E-06	1E-04	1E-03	8E-03	3E-05	1E-11	1E-02	5E-04	7E-06	2E-05	1E-11	1E-11	1E-11
Eu-154	6E-16	6E-16	6E-16	6E-16	6E-16	6E-16	6E-16	6E-16	6E-16	4E-07	6E-16	1E-05	6E-16	6E-16	6E-16	6E-16	6E-16	6E-16	6E-16	6E-16	6E-16
H-3	1E-17	1E-17	1E-17	1E-17	1E-17	1E-17	1E-17	1E-17	1E-17	1E-17	1E-17	1E-17	1E-17	1E-17	1E-17	1E-11	1E-17	1E-17	1E-17	1E-17	1E-17
Np-237	8E-14	8E-14	8E-08	8E-14	8E-14	8E-14	8E-14	8E-14	8E-14	8E-14	8E-14	8E-14	8E-14	8E-14	8E-14	8E-14	8E-14	8E-14	8E-14	8E-14	8E-14
Pu-239/240	----	1E-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Ra-226	1E-12	1E-12	1E-12	1E-12	1E-12	1E-12	1E-12	1E-12	1E-12	1E-12	1E-12	1E-12	1E-12	1E-12	1E-12	9E-05	1E-12	1E-12	1E-12	1E-12	1E-12
Sr-90	5E-15	5E-15	5E-15	5E-15	5E-15	5E-15	5E-15	4E-08	5E-15	5E-15	5E-15	5E-15	5E-15	5E-15	5E-15	5E-15	5E-15	5E-15	5E-15	5E-15	5E-15
Th-232	1E-10	1E-10	1E-10	1E-07	1E-10	1E-10	1E-10	1E-10	1E-10	1E-10	1E-10	1E-10	1E-10	1E-10	1E-10	1E-10	1E-10	1E-10	1E-10	1E-10	1E-10
Th-234	2E-17	2E-17	2E-17	2E-17	2E-17	2E-17	2E-17	2E-17	2E-17	2E-17	2E-17	2E-17	2E-17	2E-17	2E-17	1E-10	2E-17	2E-17	2E-17	2E-17	2E-17
U-234	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
U-235	6E-14	6E-14	9E-08	6E-14	6E-14	6E-14	6E-14	6E-14	6E-14	6E-14	6E-14	6E-14	6E-14	6E-14	6E-14	6E-14	6E-14	6E-14	6E-14	6E-14	6E-14
U-238	1E-10	1E-10	1E-10	7E-06	1E-10	1E-10	1E-10	1E-10	1E-10	1E-10	1E-10	1E-10	1E-10	1E-10	1E-10	1E-10	1E-10	1E-10	1E-10	1E-10	1E-10
Total risks	1E-07	9E-07	1E-04	2E-04	1E-07	9E-05	3E-06	9E-06	5E-06	1E-04	1E-03	9E-03	3E-05	1E-07	1E-02	1E-03	8E-06	4E-05	1E-07	1E-07	1E-07

"----" indicates that the contaminant is not a COPC in the medium or at the site or that toxicity data is not available.

Table B-66. Hazard quotients - current worker at year 0.

	Ingestion of soil																				
COPC	TSF-11	WRRTF 01	TSF-29	TSF-06 Area 1	TSF-06 Area 3	TSF-06 Area 5	TSF-06 Area 7	TSF-06 Area 8	TSF-06 Area 9	TSF-06 Area 11	TSF-06 Area B	TSF-09/18	TSF-10	TSF-21	TSF-26	TSF-07	TSF-08	TSF-22	TSF-36	TSF-37	LOFT-12
Acenaphthene	----	----	----	----	----	----	----	----	----												
Aroclor-1260	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	NTD	----	----	----	----	----
Benzo(a)anthracene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Benzo(b)fluoranthene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Benzo(a)pyrene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	NTD	----	----	----	----	----
Dichlorodifluoromethane	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
cis-1,2-Dichloroethylene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
trans-1,2-Dichloroethylene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Di-n-octylphthalate	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Naphthalene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Tetrachloroethylene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Trichloroethene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1,2,4-Trimethylbenzene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Arsenic	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	2E-02	----	----	----	----	----
Barium	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	2E-03	----	----	----	----	----
Chromium	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Manganese	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Mercury	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	3E-03	----	----	----	----	----
Uranium	----	----	6E-06	8E-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Total hazard indices by pathway and site:	0E+00	0E+00	6E-06	8E-03	0E+00	0E+00	0E+00	0E+00	0E+00	0E+00	0E+00	0E+00	0E+00	0E+00	0E+00	3E-02	0E+00	0E+00	0E+00	0E+00	0E+00

"----" indicates that the contaminant is not a COPC in the medium or at the site.
NTD indicates that toxicity data is not available.

Table B-66. (continued)

COPC	Inhalation of fugitive dust	Inhalation of volatiles
Acenaphthene	----	----
Aroclor-1260	NTD	NTD
Benzo(a)anthracene	----	----
Benzo(b)fluoranthene	----	----
Benzo(a)pyrene	NTD	NTD
Dichlorodifluoromethane	----	----
cis-1,2-Dichloroethylene	----	----
trans-1,2-Dichloroethylene	----	----
Di-n-octylphthalate	----	----
Naphthalene	----	----
Tetrachloroethylene	----	----
Trichloroethene	----	----
1,2,4-Trimethylbenzene	----	----
Arsenic	NTD	----
Barium	8E-06	----
Chromium	----	----
Manganese	----	----
Mercury	7E-06	----
Uranium	NTD	----
Total hazard indices by pathway and site:	1E-05	0E+00

"----" indicates that the contaminant is not a COPC in the medium or at the site.
NTD indicates that toxicity data is not available.

Table B-66. (continued)

	Total HIs																				
COPC	TSF-11	WRRTF 01	TSF-29	TSF-06 Area 1	TSF-06 Area 3	TSF-06 Area 5	TSF-06 Area 7	TSF-06 Area 8	TSF-06 Area 9	TSF-06 Area 11	TSF-06 Area B	TSF-09/18	TSF-10	TSF-21	TSF-26	TSF-07	TSF-08	TSF-22	TSF-36	TSF-37	LOFT-12
Acenaphthene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Aroclor-1260	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Benzo(a)anthracene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Benzo(b)fluoranthene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Benzo(a)pyrene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Dichlorodifluoromethane	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
cis-1,2-Dichloroethylene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
trans-1,2-Dichloroethylene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Di-n-octylphthalate	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Naphthalene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Tetrachloroethylene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Trichloroethene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1,2,4-Trimethylbenzene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Arsenic	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	2E-02	----	----	----	----	----
Barium	8E-06	8E-06	8E-06	8E-06	8E-06	8E-06	8E-06	8E-06	8E-06	8E-06	8E-06	8E-06	8E-06	8E-06	8E-06	2E-03	8E-06	8E-06	8E-06	8E-06	8E-06
Chromium	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Manganese	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Mercury	7E-06	7E-06	7E-06	7E-06	7E-06	7E-06	7E-06	7E-06	7E-06	7E-06	7E-06	7E-06	7E-06	7E-06	7E-06	3E-03	7E-06	7E-06	7E-06	7E-06	7E-06
Uranium	----	----	6E-06	8E-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Total hazard indices	1E-05	1E-05	2E-05	8E-03	1E-05	1E-05	1E-05	1E-05	1E-05	1E-05	1E-05	1E-05	1E-05	1E-05	1E-05	3E-02	1E-05	1E-05	1E-05	1E-05	1E-05

"----" indicates that the contaminant is not a COPC in the medium or at the site or that toxicity data is not available.

Table B-67. Risks - future worker at year 100.

	Ingestion of soil																				
COPC	TSF-11	WRRTF-01	TSF-29	TSF-06 Area 1	TSF-06 Area 3	TSF-06 Area 5	TSF-06 Area 7	TSF-06 Area 8	TSF-06 Area 9	TSF-06 Area 11	TSF-06 Area B	TSF-09/18	TSF-10	TSF-21	TSF-26	TSF-07	TSF-08	TSF-22	TSF-36	TSF-37	LOFT-12
Acenaphthene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Aroclor-1260	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	3E-07	----	----	----	----	----
Benzo(a)anthracene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Benzo(b)fluoranthene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Benzo(a)pyrene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	3E-07	----	----	----	----	----
Dichlorodifluoromethane	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
cis-1,2-Dichloroethylene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
trans-1,2-Dichloroethylene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Di-n-octylphthalate	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Naphthalene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Tetrachloroethylene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Trichloroethene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1,2,4-Trimethylbenzene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Arsenic	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	4E-06	----	----	----	----	----
Barium	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	NTD	----	----	----	----	----
Chromium	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Manganese	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Mercury	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	NTD	----	----	----	----	----
Uranium	----	----	NTD	NTD	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Am-241	----	----	1E-08	----	1E-08	----	----	----	----	----	----	----	----	----	----	2E-09	----	----	----	----	----
Cm-242	----	----	2E-79	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Cm-243/244	----	----	3E-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Co-60	----	----	----	3E-15	----	5E-16	4E-16	5E-16	----	3E-16	6E-16	1E-13	----	----	1E-14	2E-13	----	4E-16	----	----	----
Cs-134	----	----	----	----	----	----	4E-25	5E-25	----	----	----	1E-25	----	----	----	6E-26	----	----	----	----	----
Cs-137	----	----	1E-08	2E-08	----	1E-08	2E-09	6E-09	3E-09	7E-08	1E-07	7E-07	5E-09	----	3E-06	4E-08	6E-10	2E-09	----	----	----
Eu-154	----	----	----	----	----	----	----	----	----	1E-13	----	6E-13	----	----	----	----	----	----	----	----	----
H-3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	5E-14	----	----	----	----	----
Np-237	----	----	4E-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Pu-239/240	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Ra-226	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	2E-07	----	----	----	----	----
Sr-90	----	----	----	----	----	----	----	4E-09	----	----	----	----	----	----	----	----	----	----	----	----	----
Th-232	----	----	----	1E-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Th-234	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
U-234	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
U-235	----	----	1E-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
U-238	----	----	----	3E-07	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Total risks by site and pathway:	0E+00	0E+00	3E-08	5E-07	1E-08	1E-08	2E-09	9E-09	3E-09	7E-08	1E-07	7E-07	5E-09	0E+00	3E-06	5E-06	6E-10	2E-09	0E+00	0E+00	0E+00

"----" indicates that the contaminant is not a COPC in the medium or at the site.
NTD indicates that toxicity data is not available.

Table B-67. (continued)

COPC	TSF-11	WRRTF-01	TSF-29	TSF-06 Area 1	TSF-06 Area 3	TSF-06 Area 5	TSF-06 Area 7	TSF-06 Area 8	TSF-06 Area 9	TSF-06 Area 11	TSF-06 Area B	TSF-09/18	TSF-10	TSF-21	TSF-26	TSF-07	TSF-08	TSF-22	TSF-36	TSF-37	LOFT-12
	External radiation exposure																				
Acenaphthene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Aroclor-1260	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Benzo(a)anthracene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Benzo(b)fluoranthene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Benzo(a)pyrene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Dichlorodifluoromethane	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
cis-1,2-Dichloroethylene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
trans-1,2-Dichloroethylene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Di-n-octylphthalate	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Naphthalene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Tetrachloroethylene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Trichloroethene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1,2,4-Trimethylbenzene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Arsenic	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Barium	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Chromium	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Manganese	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Mercury	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Uranium	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Am-241	----	----	2E-09	----	8E-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Cm-242	----	----	2E-81	----	----	----	----	----	----	----	----	----	----	----	----	2E-81	----	----	----	----	----
Cm-243/244	----	----	2E-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Co-60	----	2E-12	----	2E-11	----	4E-12	5E-13	6E-13	----	4E-13	4E-12	1E-09	----	----	3E-11	2E-09	1E-12	3E-11	----	----	----
Cs-134	----	----	----	----	----	----	1E-22	1E-22	----	----	----	3E-22	----	----	----	1E-22	----	----	----	----	----
Cs-137	----	----	1E-05	2E-05	----	9E-06	3E-07	8E-07	5E-07	1E-05	1E-04	8E-04	3E-06	----	1E-03	5E-05	7E-07	2E-06	----	----	----
Eu-154	----	----	----	----	----	----	----	----	----	2E-10	----	5E-09	----	----	----	----	----	----	----	----	----
H-3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	NTD	----	----	----	----	----
Np-237	----	----	8E-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Pu-239/240	----	1E-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Ra-226	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	9E-05	----	----	----	----	----
Sr-90	----	----	----	----	----	----	----	NTD	----	----	----	----	----	----	----	----	----	----	----	NTD	----
Th-232	----	----	----	1E-09	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Th-234	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
U-234	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
U-235	----	----	9E-08	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
U-238	----	----	----	6E-06	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Total risks by site and pathway:	0E+00	1E-10	1E-05	3E-05	8E-10	9E-06	3E-07	8E-07	5E-07	1E-05	1E-04	8E-04	3E-06	0E+00	1E-03	1E-04	7E-07	2E-06	0E+00	0E+00	0E+00

"----" indicates that the contaminant is not a COPC in the medium or at the site.
NTD indicates that toxicity data is not available.

Table B-67. (continued)

COPC	Inhalation of fugitive dust	Inhalation of volatiles
Acenaphthene	----	----
Aroclor-1260	NTD	NTD
Benzo(a)anthracene	----	----
Benzo(b)fluoranthene	----	----
Benzo(a)pyrene	2E-10	1E-09
Dichlorodifluoromethane	----	----
cis-1,2-Dichloroethylene	----	----
trans-1,2-Dichloroethylene	----	----
Di-n-octylphthalate	----	----
Naphthalene	----	----
Tetrachloroethylene	----	----
Trichloroethene	----	----
1,2,4-Trimethylbenzene	----	----
Arsenic	9E-08	----
Barium	NTD	----
Chromium	----	----
Manganese	----	----
Mercury	NTD	----
Uranium	NTD	----
Am-241	5E-13	----
Cm-242	3E-84	----
Cm-243/244	5E-15	----
Co-60	6E-19	----
Cs-134	1E-31	----
Cs-137	1E-12	----
Eu-154	2E-19	----
H-3	5E-20	----
Np-237	8E-14	----
Pu-239/240	----	----
Ra-226	1E-12	----
Sr-90	5E-16	----
Th-232	1E-10	----
Th-234	----	----
U-234	----	----
U-235	6E-14	----
U-238	1E-10	----
Total risks by site and pathway:	9E-08	1E-09

"----" indicates that the contaminant is not a COPC in the medium or at the site.
NTD indicates that toxicity data is not available.

Table B-67. (continued)

COPC	Total risks																				
	TSF-11	WRRTF-01	TSF-29	TSF-06 Area 1	TSF-06 Area 3	TSF-06 Area 5	TSF-06 Area 7	TSF-06 Area 8	TSF-06 Area 9	TSF-06 Area 11	TSF-06 Area B	TSF-09/18	TSF-10	TSF-21	TSF-26	TSF-07	TSF-08	TSF-22	TSF-36	TSF-37	LOFT-12
Acenaphthene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Aroclor-1260	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	3E-07	----	----	----	----	----
Benzo(a)anthracene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Benzo(b)fluoranthene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Benzo(a)pyrene	1E-09	1E-09	1E-09	1E-09	1E-09	1E-09	1E-09	1E-09	1E-09	1E-09	1E-09	1E-09	1E-09	1E-09	1E-09	3E-07	1E-09	1E-09	1E-09	1E-09	1E-09
Dichlorodifluoromethane	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
cis-1,2-Dichloroethylene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
trans-1,2-Dichloroethylene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Di-n-octylphthalate	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Naphthalene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Tetrachloroethylene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Trichloroethene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1,2,4-Trimethylbenzene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Arsenic	9E-08	9E-08	9E-08	9E-08	9E-08	9E-08	9E-08	9E-08	9E-08	9E-08	9E-08	9E-08	9E-08	9E-08	9E-08	4E-06	9E-08	9E-08	9E-08	9E-08	9E-08
Barium	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Chromium	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Manganese	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Mercury	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Uranium	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Am-241	5E-13	5E-13	1E-08	5E-13	1E-08	5E-13	5E-13	5E-13	5E-13	5E-13	5E-13	5E-13	5E-13	5E-13	5E-13	2E-09	5E-13	5E-13	5E-13	5E-13	5E-13
Cm-242	3E-84	3E-84	2E-79	3E-84	3E-84	3E-84	3E-84	3E-84	3E-84	3E-84	3E-84	3E-84	3E-84	3E-84	3E-84	2E-81	3E-84	3E-84	3E-84	3E-84	3E-84
Cm-243/244	5E-15	5E-15	3E-09	5E-15	5E-15	5E-15	5E-15	5E-15	5E-15	5E-15	5E-15	5E-15	5E-15	5E-15	5E-15	5E-15	5E-15	5E-15	5E-15	5E-15	5E-15
Co-60	6E-19	2E-12	6E-19	2E-11	6E-19	4E-12	5E-13	6E-13	6E-19	4E-13	4E-12	1E-09	6E-19	6E-19	3E-11	2E-09	1E-12	3E-11	6E-19	6E-19	6E-19
Cs-134	1E-31	1E-31	1E-31	1E-31	1E-31	1E-31	1E-22	1E-22	1E-31	1E-31	1E-31	3E-22	1E-31	1E-31	1E-31	1E-22	1E-31	1E-31	1E-31	1E-31	1E-31
Cs-137	1E-12	1E-12	1E-05	2E-05	1E-12	9E-06	3E-07	8E-07	5E-07	1E-05	1E-04	8E-04	3E-06	1E-12	1E-03	5E-05	7E-07	2E-06	1E-12	1E-12	1E-12
Eu-154	2E-19	2E-19	2E-19	2E-19	2E-19	2E-19	2E-19	2E-19	2E-19	2E-10	2E-19	5E-09	2E-19	2E-19	2E-19	2E-19	2E-19	2E-19	2E-19	2E-19	2E-19
H-3	5E-20	5E-20	5E-20	5E-20	5E-20	5E-20	5E-20	5E-20	5E-20	5E-20	5E-20	5E-20	5E-20	5E-20	5E-20	5E-14	5E-20	5E-20	5E-20	5E-20	5E-20
Np-237	8E-14	8E-14	8E-08	8E-14	8E-14	8E-14	8E-14	8E-14	8E-14	8E-14	8E-14	8E-14	8E-14	8E-14	8E-14	8E-14	8E-14	8E-14	8E-14	8E-14	8E-14
Pu-239/240	----	1E-10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Ra-226	1E-12	1E-12	1E-12	1E-12	1E-12	1E-12	1E-12	1E-12	1E-12	1E-12	1E-12	1E-12	1E-12	1E-12	1E-12	9E-05	1E-12	1E-12	1E-12	1E-12	1E-12
Sr-90	5E-16	5E-16	5E-16	5E-16	5E-16	5E-16	5E-16	4E-09	5E-16	5E-16	5E-16	5E-16	5E-16	5E-16	5E-16	5E-16	5E-16	5E-16	5E-16	5E-16	5E-16
Th-232	1E-10	1E-10	1E-10	1E-07	1E-10	1E-10	1E-10	1E-10	1E-10	1E-10	1E-10	1E-10	1E-10	1E-10	1E-10	1E-10	1E-10	1E-10	1E-10	1E-10	1E-10
Th-234	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
U-234	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
U-235	6E-14	6E-14	9E-08	6E-14	6E-14	6E-14	6E-14	6E-14	6E-14	6E-14	6E-14	6E-14	6E-14	6E-14	6E-14	6E-14	6E-14	6E-14	6E-14	6E-14	6E-14
U-238	1E-10	1E-10	1E-10	7E-06	1E-10	1E-10	1E-10	1E-10	1E-10	1E-10	1E-10	1E-10	1E-10	1E-10	1E-10	1E-10	1E-10	1E-10	1E-10	1E-10	1E-10
Total risks	1E-07	1E-07	1E-05	3E-05	1E-07	9E-06	4E-07	9E-07	6E-07	1E-05	1E-04	8E-04	3E-06	1E-07	1E-03	1E-04	8E-07	2E-06	1E-07	1E-07	1E-07

"----" indicates that the contaminant is not a COPC in the medium or at the site or that toxicity data is not available.

Table B-68. Hazard quotients - future worker at year 100.

	Ingestion of soil																				
COPC	TSF-11	WRRTF 01	TSF-29	TSF-06 Area 1	TSF-06 Area 3	TSF-06 Area 5	TSF-06 Area 7	TSF-06 Area 8	TSF-06 Area 9	TSF-06 Area 11	TSF-06 Area B	TSF-09/18	TSF-10	TSF-21	TSF-26	TSF-07	TSF-08	TSF-22	TSF-36	TSF-37	LOFT-12
Acenaphthene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Aroclor-1260	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	NTD	----	----	----	----	----
Benzo(a)anthracene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Benzo(b)fluoranthene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Benzo(a)pyrene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	NTD	----	----	----	----	----
Dichlorodifluoromethane	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
cis-1,2-Dichloroethylene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
trans-1,2-Dichloroethylene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Di-n-octylphthalate	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Naphthalene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Tetrachloroethylene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Trichloroethene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1,2,4-Trimethylbenzene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Arsenic	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	2E-02	----	----	----	----	----
Barium	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	2E-03	----	----	----	----	----
Chromium	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Manganese	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Mercury	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	3E-03	----	----	----	----	----
Uranium	----	----	6E-06	8E-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Total hazard indices by pathway and site:	0E+00	0E+00	6E-06	8E-03	0E+00	0E+00	0E+00	0E+00	0E+00	0E+00	0E+00	0E+00	0E+00	0E+00	0E+00	3E-02	0E+00	0E+00	0E+00	0E+00	0E+00

"----" indicates that the contaminant is not a COPC in the medium or at the site.
NTD indicates that toxicity data is not available.

Table B-68. (continued)

COPC	Inhalation of fugitive dust	Inhalation of volatiles
Acenaphthene	----	----
Aroclor-1260	NTD	NTD
Benzo(a)anthracene	----	----
Benzo(b)fluoranthene	----	----
Benzo(a)pyrene	NTD	NTD
Dichlorodifluoromethane	----	----
cis-1,2-Dichloroethylene	----	----
trans-1,2-Dichloroethylene	----	----
Di-n-octylphthalate	----	----
Naphthalene	----	----
Tetrachloroethylene	----	----
Trichloroethene	----	----
1,2,4-Trimethylbenzene	----	----
Arsenic	NTD	----
Barium	8E-06	----
Chromium	----	----
Manganese	----	----
Mercury	7E-06	----
Uranium	NTD	----
Total hazard indices by pathway and site:	1E-05	0E+00

"----" indicates that the contaminant is not a COPC in the medium or at the site.
NTD indicates that toxicity data is not available.

Table B-68. (continued)

COPC	Total His																			
	TSF-11	WRRTF 01	TSF-29	TSF-06 Area 1	TSF-06 Area 3	TSF-06 Area 5	TSF-06 Area 7	TSF-06 Area 8	TSF-06 Area 9	TSF-06 Area 11	TSF-06 Area B	TSF-09/18	TSF-10	TSF-21	TSF-26	TSF-07	TSF-08	TSF-22	TSF-36	TSF-37	LOFT-12
Acenaphthene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Aroclor-1260	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Benzo(a)anthracene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Benzo(b)fluoranthene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Benzo(a)pyrene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Dichlorodifluoromethane	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
cis-1,2-Dichloroethylene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
trans-1,2-Dichloroethylene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Di-n-octylphthalate	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Naphthalene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Tetrachloroethylene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Trichloroethene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1,2,4-Trimethylbenzene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Arsenic	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	2E-02	----	----	----	----	----
Barium	8E-06	8E-06	8E-06	8E-06	8E-06	8E-06	8E-06	8E-06	8E-06	8E-06	8E-06	8E-06	8E-06	8E-06	8E-06	2E-03	8E-06	8E-06	8E-06	8E-06	8E-06
Chromium	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Manganese	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Mercury	7E-06	7E-06	7E-06	7E-06	7E-06	7E-06	7E-06	7E-06	7E-06	7E-06	7E-06	7E-06	7E-06	7E-06	7E-06	3E-03	7E-06	7E-06	7E-06	7E-06	7E-06
Uranium	----	----	6E-06	8E-03	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Total hazard indices	1E-05	1E-05	2E-05	8E-03	1E-05	1E-05	1E-05	1E-05	1E-05	1E-05	1E-05	1E-05	1E-05	1E-05	1E-05	3E-02	1E-05	1E-05	1E-05	1E-05	1E-05

"----" indicates that the contaminant is not a COPC in the medium or at the site or that toxicity data is not available.

Table B-69. Risks - future resident at year 100.

	Ingestion of soil																				
COPC	TSF-11	WRRTF-01	TSF-29	TSF-06 Area 1	TSF-06 Area 3	TSF-06 Area 5	TSF-06 Area 7	TSF-06 Area 8	TSF-06 Area 9	TSF-06 Area 11	TSF-06 Area B	TSF-09/18	TSF-10	TSF-21	TSF-26	TSF-07	TSF-08	TSF-22	TSF-36	TSF-37	LOFT-12
Acenaphthene	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Aroclor-1260	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1E-06	—	—	—	—	8E-06
Benzo(a)anthracene	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Benzo(b)fluoranthene	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Benzo(a)pyrene	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1E-06	—	—	4E-07	—	—
Dichlorodifluoromethane	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
cis-1,2-Dichloroethylene	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
trans-1,2-Dichloroethylene	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Di-n-octylphthalate	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Naphthalene	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tetrachloroethylene	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Trichloroethene	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1,2,4-Trimethylbenzene	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Arsenic	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3E-05	—	—	—	—	—
Barium	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	NTD	—	—	—	—	—
Chromium	—	NTD	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manganese	—	—	—	—	—	—	—	—	—	—	—	—	NTD	—	—	—	—	—	—	—	—
Mercury	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	NTD	NTD	—	—	—	—
Uranium	—	—	NTD	NTD	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Am-241	7E-08	—	1E-08	—	5E-09	—	—	—	—	—	—	—	—	—	—	7E-09	—	—	—	—	—
Cm-242	—	—	2E-79	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cm-243/244	—	—	3E-10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Co-60	—	7E-16	—	9E-15	—	5E-16	7E-17	9E-17	—	5E-17	6E-16	4E-13	—	—	4E-15	6E-13	3E-16	3E-16	—	—	—
Cs-134	—	—	—	—	—	—	7E-26	8E-26	—	—	—	4E-25	—	—	—	2E-25	—	—	—	—	—
Cs-137	—	—	1E-08	6E-08	—	1E-08	4E-10	1E-09	6E-10	1E-08	1E-07	3E-06	4E-09	—	1E-06	1E-07	2E-09	3E-09	—	—	—
Eu-154	—	—	—	—	—	—	—	—	—	3E-14	—	2E-12	—	—	—	—	—	—	—	—	—
H-3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2E-13	—	—	—	3E-14	—
Np-237	—	—	5E-09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Pu-239/240	—	8E-07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Ra-226	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8E-07	—	—	—	—	—
Sr-90	—	—	—	—	—	—	—	7E-10	—	—	—	—	—	—	—	—	—	—	—	2E-09	—
Th-232	—	—	—	5E-07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Th-234	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
U-234	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
U-235	—	—	1E-09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
U-238	—	—	—	1E-06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total risks by site and pathway:	7E-08	8E-07	3E-08	2E-06	5E-09	1E-08	4E-10	2E-09	6E-10	1E-08	1E-07	3E-06	4E-09	0E+00	1E-06	4E-05	2E-09	3E-09	4E-07	2E-09	8E-06

"—" indicates that the contaminant is not a COPC in the medium or at the site.
NTD indicates that toxicity data is not available.

Table B-69. (continued)

COPC	Ingestion of homegrown produce																				
	TSF-11	WRRTF-01	TSF-29	TSF-06 Area 1	TSF-06 Area 3	TSF-06 Area 5	TSF-06 Area 7	TSF-06 Area 8	TSF-06 Area 9	TSF-06 Area 11	TSF-06 Area B	TSF-09/18	TSF-10	TSF-21	TSF-26	TSF-07	TSF-08	TSF-22	TSF-36	TSF-37	LOFT-12
Acenaphthene	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD
Aroclor-1260	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4E-07	—	—	—	—	2E-06
Benzo(a)anthracene	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Benzo(b)fluoranthene	2E-09	2E-09	2E-09	2E-09	2E-09	2E-09	2E-09	2E-09	2E-09	2E-09	2E-09	2E-09	2E-09	2E-09	2E-09	2E-09	2E-09	2E-09	2E-09	2E-09	2E-09
Benzo(a)pyrene	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1E-06	—	—	3E-07	—	—
Dichlorodifluoromethane	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD
cis-1,2-Dichloroethylene	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD
trans-1,2-Dichloroethylene	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD
Di-n-octylphthalate	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Naphthalene	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD
Tetrachloroethylene	3E-08	3E-08	3E-08	3E-08	3E-08	3E-08	3E-08	3E-08	3E-08	3E-08	3E-08	3E-08	3E-08	3E-08	3E-08	3E-08	3E-08	3E-08	3E-08	3E-08	3E-08
Trichloroethene	4E-09	4E-09	4E-09	4E-09	4E-09	4E-09	4E-09	4E-09	4E-09	4E-09	4E-09	4E-09	4E-09	4E-09	4E-09	4E-09	4E-09	4E-09	4E-09	4E-09	4E-09
1,2,4-Trimethylbenzene	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD
Arsenic	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4E-06	—	—	—	—	—
Barium	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	NTD	—	—	—	—	—
Chromium	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD
Manganese	—	—	—	—	—	—	—	—	—	—	—	—	NTD	—	—	—	—	—	—	—	—
Mercury	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	NTD	NTD	—	—	—	—
Uranium	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD
Am-241	1E-09	—	2E-10	—	9E-11	—	—	—	—	—	—	—	—	—	—	1E-10	—	—	—	—	—
Cm-242	1E-88	1E-88	2E-84	1E-88	1E-88	1E-88	1E-88	1E-88	1E-88	1E-88	1E-88	1E-88	1E-88	1E-88	1E-88	1E-88	1E-88	1E-88	1E-88	1E-88	1E-88
Cm-243/244	—	—	9E-14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Co-60	—	2E-17	—	2E-16	—	1E-17	2E-18	2E-18	—	1E-18	2E-17	1E-14	—	—	1E-16	2E-14	8E-18	8E-18	—	—	—
Cs-134	—	—	—	—	—	—	1E-27	1E-27	—	—	—	7E-27	—	—	—	3E-27	—	—	—	—	—
Cs-137	—	—	4E-09	2E-08	—	3E-09	9E-11	3E-10	2E-10	3E-09	3E-08	7E-07	9E-10	—	3E-07	4E-08	6E-10	7E-10	—	—	—
Eu-154	—	—	—	—	—	—	—	—	—	3E-17	—	3E-15	—	—	—	—	—	—	—	—	—
H-3	1E-18	1E-18	1E-18	1E-18	1E-18	1E-18	1E-18	1E-18	1E-18	1E-18	1E-18	1E-18	1E-18	1E-18	1E-18	3E-14	1E-18	1E-18	1E-18	4E-15	1E-18
Np-237	1E-18	1E-18	2E-10	1E-18	1E-18	1E-18	1E-18	1E-18	1E-18	1E-18	1E-18	1E-18	1E-18	1E-18	1E-18	1E-18	1E-18	1E-18	1E-18	1E-18	1E-18
Pu-239/240	—	1E-07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Ra-226	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2E-06	—	—	—	—	—
Sr-90	—	—	—	—	—	—	—	1E-09	—	—	—	—	—	—	—	—	—	—	—	3E-09	—
Th-232	—	—	—	2E-06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Th-234	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
U-234	2E-08	2E-08	2E-08	2E-08	2E-08	2E-08	2E-08	2E-08	2E-08	2E-08	2E-08	2E-08	2E-08	2E-08	2E-08	2E-08	2E-08	2E-08	2E-08	2E-08	2E-08
U-235	—	—	2E-10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
U-238	—	—	—	2E-07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total risks by site and pathway:	6E-08	2E-07	6E-08	2E-06	6E-08	6E-08	6E-08	6E-08	6E-08	6E-08	9E-08	7E-07	6E-08	6E-08	4E-07	7E-06	6E-08	6E-08	4E-07	6E-08	2E-06

"—" indicates that the contaminant is not a COPC in the medium or at the site.
NTD indicates that toxicity data is not available.

Table B-69. (continued)

COPC	External radiation exposure																				
	TSF-11	WRRTF-01	TSF-29	TSF-06 Area 1	TSF-06 Area 3	TSF-06 Area 5	TSF-06 Area 7	TSF-06 Area 8	TSF-06 Area 9	TSF-06 Area 11	TSF-06 Area B	TSF-09/18	TSF-10	TSF-21	TSF-26	TSF-07	TSF-08	TSF-22	TSF-36	TSF-37	LOFT-12
Acenaphthene	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Aroclor-1260	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Benzo(a)anthracene	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Benzo(b)fluoranthene	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Benzo(a)pyrene	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dichlorodifluoromethane	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
cis-1,2-Dichloroethylene	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
trans-1,2-Dichloroethylene	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Di-n-octylphthalate	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Naphthalene	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tetrachloroethylene	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Trichloroethene	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1,2,4-Trimethylbenzene	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Arsenic	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Barium	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Chromium	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Manganese	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mercury	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Uranium	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Am-241	2E-08	—	4E-09	—	2E-09	—	—	—	—	—	—	—	—	—	—	2E-09	—	—	—	—	—
Cm-242	—	—	3E-81	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cm-243/244	—	—	5E-09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Co-60	—	8E-12	—	1E-10	—	6E-12	8E-13	1E-12	—	6E-13	8E-12	5E-09	—	—	5E-11	7E-09	3E-12	3E-12	—	—	—
Cs-134	—	—	—	—	—	—	2E-22	2E-22	—	—	—	1E-21	—	—	—	5E-22	—	—	—	—	—
Cs-137	—	—	2E-05	9E-05	—	2E-05	5E-07	2E-06	9E-07	2E-05	2E-04	4E-03	6E-06	—	2E-03	2E-04	3E-06	4E-06	—	—	—
Eu-154	—	—	—	—	—	—	—	—	—	3E-10	—	2E-08	—	—	—	—	—	—	—	—	—
H-3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	NTD	—	—	—	NTD	—
Np-237	—	—	2E-07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Pu-239/240	—	1E-09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Ra-226	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4E-04	—	—	—	—	—
Sr-90	—	—	—	—	—	—	—	NTD	—	—	—	—	—	—	—	—	—	—	—	NTD	—
Th-232	—	—	—	7E-09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Th-234	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
U-234	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
U-235	—	—	2E-07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
U-238	—	—	—	3E-05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total risks by site and pathway:	2E-08	1E-09	2E-05	1E-04	2E-09	2E-05	5E-07	2E-06	9E-07	2E-05	2E-04	4E-03	6E-06	0E+00	2E-03	7E-04	3E-06	4E-06	0E+00	0E+00	0E+00

"—" indicates that the contaminant is not a COPC in the medium or at the site.
NTD indicates that toxicity data is not available.

Table B-69. (continued)

COPC	Inhalation of fugitive dust	Inhalation of volatiles	Ingestion of groundwater	Dermal absorption of groundwater	Inhalation of volatiles from indoor water use
Acenaphthene	—	NTD	NTD	NTD	NTD
Aroclor-1260	NTD	NTD	—	—	—
Benzo(a)anthracene	—	0E+00	2E-06	3E-06	2E-05
Benzo(b)fluoranthene	—	0E+00	2E-06	4E-06	2E-05
Benzo(a)pyrene	1E-10	1E-09	—	—	—
Dichlorodifluoromethane	—	NTD	NTD	NTD	NTD
cis-1,2-Dichloroethylene	—	NTD	NTD	NTD	NTD
trans-1,2-Dichloroethylene	—	NTD	NTD	NTD	NTD
Di-n-octylphthalate	—	NTD	NTD	NTD	NTD
Naphthalene	—	NTD	NTD	NTD	NTD
Tetrachloroethylene	—	0E+00	3E-06	3E-07	2E-06
Trichloroethene	—	0E+00	6E-07	2E-08	5E-06
1,2,4-Trimethylbenzene	—	NTD	NTD	NTD	NTD
Arsenic	2E-07	—	—	—	—
Barium	NTD	—	—	—	—
Chromium	6E-10	—	NTD	NTD	—
Manganese	NTD	—	—	—	—
Mercury	NTD	—	—	—	—
Uranium	NTD	—	NTD	NTD	—
Am-241	2E-19	—	—	—	—
Cm-242	7E-91	—	3E-81	6E-84	—
Cm-243/244	1E-21	—	—	—	—
Co-60	4E-25	—	—	—	—
Cs-134	2E-38	—	—	—	—
Cs-137	1E-19	—	—	—	—
Eu-154	1E-25	—	—	—	—
H-3	4E-26	—	2E-15	4E-18	4E-14
Np-237	2E-20	—	5E-15	1E-17	—
Pu-239/240	3E-18	—	—	—	—
Ra-226	1E-18	—	—	—	—
Sr-90	2E-23	—	—	—	—
Th-232	1E-16	—	—	—	—
Th-234	—	—	—	—	—
U-234	—	—	3E-05	6E-08	—
U-235	2E-20	—	—	—	—
U-238	1E-16	—	—	—	—
Total risks by site and pathway:	2E-07	1E-09	4E-05	8E-06	5E-05

"---" indicates that the contaminant is not a COPC in the via the air pathway, that the transit time through the unsaturate zone exceeds 130 years, or that the contaminant is not a volatile.
NTD indicates that toxicity data is not available.

Table B-69. (continued)

COPC	Total risks																				
	TSF-11	WRRTF-01	TSF-29	TSF-06 Area 1	TSF-06 Area 3	TSF-06 Area 5	TSF-06 Area 7	TSF-06 Area 8	TSF-06 Area 9	TSF-06 Area 11	TSF-06 Area B	TSF-09/18	TSF-10	TSF-21	TSF-26	TSF-07	TSF-08	TSF-22	TSF-36	TSF-37	LOFT-12
Acenaphthene	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Aroclor-1260	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2E-06	—	—	—	—	1E-05
Benzo(a)anthracene	3E-05	3E-05	3E-05	3E-05	3E-05	3E-05	3E-05	3E-05	3E-05	3E-05	3E-05	3E-05	3E-05	3E-05	3E-05	3E-05	3E-05	3E-05	3E-05	3E-05	3E-05
Benzo(b)fluoranthene	3E-05	3E-05	3E-05	3E-05	3E-05	3E-05	3E-05	3E-05	3E-05	3E-05	3E-05	3E-05	3E-05	3E-05	3E-05	3E-05	3E-05	3E-05	3E-05	3E-05	3E-05
Benzo(a)pyrene	1E-09	1E-09	1E-09	1E-09	1E-09	1E-09	1E-09	1E-09	1E-09	1E-09	1E-09	1E-09	1E-09	1E-09	1E-09	2E-06	1E-09	1E-09	7E-07	1E-09	1E-09
Dichlorodifluoromethane	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
cis-1,2-Dichloroethylene	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
trans-1,2-Dichloroethylene	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Di-n-octylphthalate	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Naphthalene	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tetrachloroethylene	5E-06	5E-06	5E-06	5E-06	5E-06	5E-06	5E-06	5E-06	5E-06	5E-06	5E-06	5E-06	5E-06	5E-06	5E-06	5E-06	5E-06	5E-06	5E-06	5E-06	5E-06
Trichloroethene	6E-06	6E-06	6E-06	6E-06	6E-06	6E-06	6E-06	6E-06	6E-06	6E-06	6E-06	6E-06	6E-06	6E-06	6E-06	6E-06	6E-06	6E-06	6E-06	6E-06	6E-06
1,2,4-Trimethylbenzene	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Arsenic	2E-07	2E-07	2E-07	2E-07	2E-07	2E-07	2E-07	2E-07	2E-07	2E-07	2E-07	2E-07	2E-07	2E-07	2E-07	4E-05	2E-07	2E-07	2E-07	2E-07	2E-07
Barium	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Chromium	6E-10	6E-10	6E-10	6E-10	6E-10	6E-10	6E-10	6E-10	6E-10	6E-10	6E-10	6E-10	6E-10	6E-10	6E-10	6E-10	6E-10	6E-10	6E-10	6E-10	6E-10
Manganese	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mercury	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Uranium	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Am-241	9E-08	2E-19	2E-08	2E-19	7E-09	2E-19	2E-19	2E-19	2E-19	2E-19	2E-19	2E-19	2E-19	2E-19	2E-19	1E-08	2E-19	2E-19	2E-19	2E-19	2E-19
Cm-242	3E-81	3E-81	2E-79	3E-81	3E-81	3E-81	3E-81	3E-81	3E-81	3E-81	3E-81	3E-81	3E-81	3E-81	3E-81	3E-81	3E-81	3E-81	3E-81	3E-81	3E-81
Cm-243/244	1E-21	1E-21	5E-09	1E-21	1E-21	1E-21	1E-21	1E-21	1E-21	1E-21	1E-21	1E-21	1E-21	1E-21	1E-21	1E-21	1E-21	1E-21	1E-21	1E-21	1E-21
Co-60	4E-25	8E-12	4E-25	1E-10	4E-25	6E-12	8E-13	1E-12	4E-25	6E-13	8E-12	5E-09	4E-25	4E-25	5E-11	7E-09	3E-12	3E-12	4E-25	4E-25	4E-25
Cs-134	2E-38	2E-38	2E-38	2E-38	2E-38	2E-38	2E-22	2E-22	2E-38	2E-38	2E-38	1E-21	2E-38	2E-38	2E-38	5E-22	2E-38	2E-38	2E-38	2E-38	2E-38
Cs-137	1E-19	1E-19	2E-05	9E-05	1E-19	2E-05	5E-07	2E-06	9E-07	2E-05	2E-04	4E-03	6E-06	1E-19	2E-03	2E-04	3E-06	4E-06	1E-19	1E-19	1E-19
Eu-154	1E-25	1E-25	1E-25	1E-25	1E-25	1E-25	1E-25	1E-25	1E-25	3E-10	1E-25	2E-08	1E-25	1E-25	1E-25	1E-25	1E-25	1E-25	1E-25	1E-25	1E-25
H-3	4E-14	4E-14	4E-14	4E-14	4E-14	4E-14	4E-14	4E-14	4E-14	4E-14	4E-14	4E-14	4E-14	4E-14	4E-14	3E-13	4E-14	4E-14	4E-14	8E-14	4E-14
Np-237	5E-15	5E-15	2E-07	5E-15	5E-15	5E-15	5E-15	5E-15	5E-15	5E-15	5E-15	5E-15	5E-15	5E-15	5E-15	5E-15	5E-15	5E-15	5E-15	5E-15	5E-15
Pu-239/240	3E-18	9E-07	3E-18	3E-18	3E-18	3E-18	3E-18	3E-18	3E-18	3E-18	3E-18	3E-18	3E-18	3E-18	3E-18	3E-18	3E-18	3E-18	3E-18	3E-18	3E-18
Ra-226	1E-18	1E-18	1E-18	1E-18	1E-18	1E-18	1E-18	1E-18	1E-18	1E-18	1E-18	1E-18	1E-18	1E-18	1E-18	4E-04	1E-18	1E-18	1E-18	1E-18	1E-18
Sr-90	2E-23	2E-23	2E-23	2E-23	2E-23	2E-23	2E-23	2E-09	2E-23	2E-23	2E-23	2E-23	2E-23	2E-23	2E-23	2E-23	2E-23	2E-23	2E-23	4E-09	2E-23
Th-232	1E-16	1E-16	1E-16	2E-06	1E-16	1E-16	1E-16	1E-16	1E-16	1E-16	1E-16	1E-16	1E-16	1E-16	1E-16	1E-16	1E-16	1E-16	1E-16	1E-16	1E-16
Th-234	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
U-234	3E-05	3E-05	3E-05	3E-05	3E-05	3E-05	3E-05	3E-05	3E-05	3E-05	3E-05	3E-05	3E-05	3E-05	3E-05	3E-05	3E-05	3E-05	3E-05	3E-05	3E-05
U-235	2E-20	2E-20	2E-07	2E-20	2E-20	2E-20	2E-20	2E-20	2E-20	2E-20	2E-20	2E-20	2E-20	2E-20	2E-20	2E-20	2E-20	2E-20	2E-20	2E-20	2E-20
U-238	1E-16	1E-16	1E-16	3E-05	1E-16	1E-16	1E-16	1E-16	1E-16	1E-16	1E-16	1E-16	1E-16	1E-16	1E-16	1E-16	1E-16	1E-16	1E-16	1E-16	1E-16
Total risks	1E-04	1E-04	1E-04	2E-04	1E-04	1E-04	1E-04	1E-04	1E-04	1E-04	3E-04	4E-03	1E-04	1E-04	2E-03	8E-04	1E-04	1E-04	1E-04	1E-04	1E-04

"—" indicates that the contaminant is not a COPC in the medium or at the site or that toxicity data is not available.

Table B-70. Hazard quotients - future resident at year 100.

	Ingestion of soil																				
COPC	TSF-11	WRRTF-01	TSF-29	TSF-06 Area 1	TSF-06 Area 3	TSF-06 Area 5	TSF-06 Area 7	TSF-06 Area 8	TSF-06 Area 9	TSF-06 Area 11	TSF-06 Area B	TSF-09/18	TSF-10	TSF-21	TSF-26	TSF-07	TSF-08	TSF-22	TSF-36	TSF-37	LOFT-12
Acenaphthene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Aroclor-1260		----	----	----	----	----	----	----	----	----	----	----	----	----	----	NTD	----	----	----	----	NTD
Benzo(a)anthracene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Benzo(b)fluoranthene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Benzo(a)pyrene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	NTD	----	----	NTD	----	----
Dichlorodifluoromethane	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
cis-1,2-Dichloroethylene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
trans-1,2-Dichloroethylene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Di-n-octylphthalate	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Naphthalene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Tetrachloroethylene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Trichloroethene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1,2,4-Trimethylbenzene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Arsenic	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	2E-01	----	----	----	----	----
Barium	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	2E-02	----	----	----	----	----
Chromium	----	9E-04	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Manganese	----	----	----	----	----	----	----	----	----	----	----	----	2E-02	----	----	----	----	----	----	----	----
Mercury	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	2E-02	7E-01	----	----	----	----
Uranium	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Total hazard indices by pathway and site:	0E+00	9E-04	0E+00	0E+00	0E+00	0E+00	0E+00	0E+00	0E+00	0E+00	0E+00	0E+00	2E-02	0E+00	0E+00	2E-01	7E-01	0E+00	0E+00	0E+00	0E+00

"----" indicates that the contaminant is not a COPC in the medium or at the site.
NTD indicates that toxicity data is not available.

Table B-70. (continued)

COPC	Ingestion of homegrown produce																				
	TSF-11	WRRTF-01	TSF-29	TSF-06 Area 1	TSF-06 Area 3	TSF-06 Area 5	TSF-06 Area 7	TSF-06 Area 8	TSF-06 Area 9	TSF-06 Area 11	TSF-06 Area B	TSF-09/18	TSF-10	TSF-21	TSF-26	TSF-07	TSF-08	TSF-22	TSF-36	TSF-37	LOFT-12
Acenaphthene	2E-07	2E-07	2E-07	2E-07	2E-07	2E-07	2E-07	2E-07	2E-07	2E-07	2E-07	2E-07	2E-07	2E-07	2E-07	2E-07	2E-07	2E-07	2E-07	2E-07	2E-07
Aroclor-1260	----				----	----	----	----	----	----	----	----	----	----	----	NTD	----	----	----	----	NTD
Benzo(a)anthracene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Benzo(b)fluoranthene	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD	NTD
Benzo(a)pyrene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	NTD	----	----	NTD	----	----
Dichlorodifluoromethane	7E-07	7E-07	7E-07	7E-07	7E-07	7E-07	7E-07	7E-07	7E-07	7E-07	7E-07	7E-07	7E-07	7E-07	7E-07	7E-07	7E-07	7E-07	7E-07	7E-07	7E-07
cis-1,2-Dichloroethylene	2E-03	2E-03	2E-03	2E-03	2E-03	2E-03	2E-03	2E-03	2E-03	2E-03	2E-03	2E-03	2E-03	2E-03	2E-03	2E-03	2E-03	2E-03	2E-03	2E-03	2E-03
trans-1,2-Dichloroethylene	3E-03	3E-03	3E-03	3E-03	3E-03	3E-03	3E-03	3E-03	3E-03	3E-03	3E-03	3E-03	3E-03	3E-03	3E-03	3E-03	3E-03	3E-03	3E-03	3E-03	3E-03
Di-n-octylphthalate	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Naphthalene	1E-05	1E-05	1E-05	1E-05	1E-05	1E-05	1E-05	1E-05	1E-05	1E-05	1E-05	1E-05	1E-05	1E-05	1E-05	1E-05	1E-05	1E-05	1E-05	1E-05	1E-05
Tetrachloroethylene	1E-04	1E-04	1E-04	1E-04	1E-04	1E-04	1E-04	1E-04	1E-04	1E-04	1E-04	1E-04	1E-04	1E-04	1E-04	1E-04	1E-04	1E-04	1E-04	1E-04	1E-04
Trichloroethene	2E-04	2E-04	2E-04	2E-04	2E-04	2E-04	2E-04	2E-04	2E-04	2E-04	2E-04	2E-04	2E-04	2E-04	2E-04	2E-04	2E-04	2E-04	2E-04	2E-04	2E-04
1,2,4-Trimethylbenzene	3E-06	3E-06	3E-06	3E-06	3E-06	3E-06	3E-06	3E-06	3E-06	3E-06	3E-06	3E-06	3E-06	3E-06	3E-06	3E-06	3E-06	3E-06	3E-06	3E-06	3E-06
Arsenic	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	2E-02	----	----	----	----	----
Barium	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	2E-02	----	----	----	----	----
Chromium	4E-08	1E-06	4E-08	4E-08	4E-08	4E-08	4E-08	4E-08	4E-08	4E-08	4E-08	4E-08	4E-08	4E-08	4E-08	4E-08	4E-08	4E-08	4E-08	4E-08	4E-08
Manganese	----	----	----	----	----	----	----	----	----	----	----	----	1E+00	----	----	----	----	----	----	----	----
Mercury	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	1E+00	3E+01	----	----	----	----
Uranium	3E-05	3E-05	3E-05	4E-03	3E-05	3E-05	3E-05	3E-05	3E-05	3E-05	3E-05	3E-05	3E-05	3E-05	3E-05	3E-05	3E-05	3E-05	3E-05	3E-05	3E-05
Total hazard indices by pathway and site:	5E-03	5E-03	5E-03	9E-03	5E-03	5E-03	5E-03	5E-03	5E-03	5E-03	5E-03	5E-03	1E+00	5E-03	5E-03	1E+00	3E+01	5E-03	5E-03	5E-03	5E-03

"----" indicates that the contaminant is not a COPC in the medium or at the site.
NTD indicates that toxicity data is not available.

Table B-70. (continued)

COPC	Inhalation of fugitive dust	Inhalation of volatiles	Ingestion of groundwater	Dermal absorption of groundwater	Inhalation of volatiles from indoor water use
Acenaphthene	----	NTD	3E-04	8E-05	NTD
Aroclor-1260	NTD	NTD	----	----	----
Benzo(a)anthracene	----	NTD	NTD	NTD	NTD
Benzo(b)fluoranthene	----	NTD	NTD	NTD	NTD
Benzo(a)pyrene	NTD	NTD	----	----	----
Dichlorodifluoromethane	----	0E+00	3E-05	7E-07	1E-03
cis-1,2-Dichloroethylene	----	NTD	2E-01	5E-03	NTD
trans-1,2-Dichloroethylene	----	NTD	3E-01	6E-03	NTD
Di-n-octylphthalate	----	NTD	1E-03	8E-02	NTD
Naphthalene	----	NTD	1E-03	2E-04	NTD
Tetrachloroethylene	----	0E+00	1E-02	1E-03	2E-01
Trichloroethene	----	0E+00	2E-02	8E-04	4E-01
1,2,4-Trimethylbenzene	----	NTD	2E-04	6E-05	NTD
Arsenic	NTD	----	----	----	----
Barium	1E-05	----	----	----	----
Chromium	NTD	----	3E-03	7E-06	NTD
Manganese	8E-04	----	----	----	----
Mercury	1E-05	----	----	----	----
Uranium	----	----	4E-02	9E-05	NTD
Total hazard indices by pathway and site:	8E-04	0E+00	6E-01	9E-02	6E-01

"----" indicates that the contaminant is not a COPC in the via the air pathway, that the transit time through the unsaturate zone exceeds 130 years, or that the contaminant is not a volatile.
NTD indicates that toxicity data is not available.

Table B-70. (continued)

COPC	TSF-11	WRRTF-01	TSF-29	TSF-06 Area 1	TSF-06 Area 3	TSF-06 Area 5	TSF-06 Area 7	TSF-06 Area 8	TSF-06 Area 9	TSF-06 Area 11	TSF-06 Area B	TSF-09/18	TSF-10	TSF-21	TSF-26	TSF-07	TSF-08	TSF-22	TSF-36	TSF-37	LOFT-12
	Total His																				
Acenaphthene	4E-04	4E-04	4E-04	4E-04	4E-04	4E-04	4E-04	4E-04	4E-04	4E-04	4E-04	4E-04	4E-04	4E-04	4E-04	4E-04	4E-04	4E-04	4E-04	4E-04	4E-04
Aroclor-1260	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Benzo(a)anthracene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Benzo(b)fluoranthene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Benzo(a)pyrene	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Dichlorodifluoromethane	2E-03	2E-03	2E-03	2E-03	2E-03	2E-03	2E-03	2E-03	2E-03	2E-03	2E-03	2E-03	2E-03	2E-03	2E-03	2E-03	2E-03	2E-03	2E-03	2E-03	2E-03
cis-1,2-Dichloroethylene	2E-01	2E-01	2E-01	2E-01	2E-01	2E-01	2E-01	2E-01	2E-01	2E-01	2E-01	2E-01	2E-01	2E-01	2E-01	2E-01	2E-01	2E-01	2E-01	2E-01	2E-01
trans-1,2-Dichloroethylene	3E-01	3E-01	3E-01	3E-01	3E-01	3E-01	3E-01	3E-01	3E-01	3E-01	3E-01	3E-01	3E-01	3E-01	3E-01	3E-01	3E-01	3E-01	3E-01	3E-01	3E-01
Di-n-octylphthalate	8E-02	8E-02	8E-02	8E-02	8E-02	8E-02	8E-02	8E-02	8E-02	8E-02	8E-02	8E-02	8E-02	8E-02	8E-02	8E-02	8E-02	8E-02	8E-02	8E-02	8E-02
Naphthalene	2E-03	2E-03	2E-03	2E-03	2E-03	2E-03	2E-03	2E-03	2E-03	2E-03	2E-03	2E-03	2E-03	2E-03	2E-03	2E-03	2E-03	2E-03	2E-03	2E-03	2E-03
Tetrachloroethylene	2E-01	2E-01	2E-01	2E-01	2E-01	2E-01	2E-01	2E-01	2E-01	2E-01	2E-01	2E-01	2E-01	2E-01	2E-01	2E-01	2E-01	2E-01	2E-01	2E-01	2E-01
Trichloroethene	4E-01	4E-01	4E-01	4E-01	4E-01	4E-01	4E-01	4E-01	4E-01	4E-01	4E-01	4E-01	4E-01	4E-01	4E-01	4E-01	4E-01	4E-01	4E-01	4E-01	4E-01
1,2,4-Trimethylbenzene	2E-04	2E-04	2E-04	2E-04	2E-04	2E-04	2E-04	2E-04	2E-04	2E-04	2E-04	2E-04	2E-04	2E-04	2E-04	2E-04	2E-04	2E-04	2E-04	2E-04	2E-04
Arsenic	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	2E-01	----	----	----	----	----
Barium	1E-05	1E-05	1E-05	1E-05	1E-05	1E-05	1E-05	1E-05	1E-05	1E-05	1E-05	1E-05	1E-05	1E-05	1E-05	3E-02	1E-05	1E-05	1E-05	1E-05	1E-05
Chromium	3E-03	4E-03	3E-03	3E-03	3E-03	3E-03	3E-03	3E-03	3E-03	3E-03	3E-03	3E-03	3E-03	3E-03	3E-03	3E-03	3E-03	3E-03	3E-03	3E-03	3E-03
Manganese	8E-04	8E-04	8E-04	8E-04	8E-04	8E-04	8E-04	8E-04	8E-04	8E-04	8E-04	8E-04	1E+00	8E-04	8E-04	8E-04	8E-04	8E-04	8E-04	8E-04	8E-04
Mercury	1E-05	1E-05	1E-05	1E-05	1E-05	1E-05	1E-05	1E-05	1E-05	1E-05	1E-05	1E-05	1E-05	1E-05	1E-05	1E+00	3E+01	1E-05	1E-05	1E-05	1E-05
Uranium	4E-02	4E-02	4E-02	5E-02	4E-02	4E-02	4E-02	4E-02	4E-02	4E-02	4E-02	4E-02	4E-02	4E-02	4E-02	4E-02	4E-02	4E-02	4E-02	4E-02	4E-02
Total hazard indices	1E+00	1E+00	1E+00	1E+00	1E+00	1E+00	1E+00	1E+00	1E+00	1E+00	1E+00	1E+00	2E+00	1E+00	1E+00	3E+00	3E+01	1E+00	1E+00	1E+00	1E+00

"----" indicates that the contaminant is not a COPC in the medium or at the site or that toxicity data is not available.

Table B-71. Risks to future resident using peak groundwater concentrations.

COPC	Ingestion of groundwater	Dermal absorption of groundwater	Inhalation of volatiles from indoor water use
Acenaphthene	NTD	NTD	NTD
Aroclor-1260	—	—	—
Benzo(a)anthracene	2E-06	3E-06	1E-06
Benzo(b)fluoranthene	2E-06	4E-06	9E-07
Benzo(a)pyrene	—	—	—
Dichlorodifluoromethane	NTD	NTD	NTD
cis-1,2-Dichloroethylene	NTD	NTD	NTD
trans-1,2-Dichloroethylene	NTD	NTD	NTD
Di-n-octylphthalate	NTD	NTD	NTD
Naphthalene	NTD	NTD	NTD
Tetrachloroethylene	3E-06	3E-07	8E-08
Trichloroethene	6E-07	2E-08	2E-07
1,2,4-Trimethylbenzene	NTD	NTD	NTD
Arsenic	3E-04	7E-07	—
Barium	NTD	NTD	—
Chromium	NTD	NTD	—
Manganese	NTD	NTD	—
Mercury	NTD	NTD	NTD
Uranium	NTD	NTD	—
Am-241	—	—	—
Cm-242	7E-81	2E-83	—
Cm-243/244	1E-17	2E-20	—
Co-60	2E-51	4E-54	—
Cs-134	—	—	—
Cs-137	—	—	—
Eu-154	—	—	—
H-3	2E-15	4E-18	2E-15
Np-237	5E-15	1E-17	—
Pu-239/240	1E-06	2E-09	—
Ra-226	2E-08	3E-11	—
Sr-90	2E-29	3E-32	—
Th-232	8E-07	2E-09	—
Th-234	3E-264	5E-267	—
U-234	3E-05	6E-08	—
U-235	9E-10	2E-12	—
U-238	3E-05	7E-08	—
Total risks by site and pathway:	4E-04	9E-06	2E-06

"—" indicates that the COPC transit time to the aquifer exceeds 10,000 years or that the COPC is not considered a volatile for this pathway.
NTD indicates that toxicity data is not available.

Table B-72. Hazard quotients for future resident using peak groundwater concentrations.

COPC	Ingestion of groundwater	Dermal absorption of groundwater	Inhalation of volatiles from indoor water use
Acenaphthene	3E-04	8E-05	NTD
Aroclor-1260	---	---	---
Benzo(a)anthracene	NTD	NTD	NTD
Benzo(b)fluoranthene	NTD	NTD	NTD
Benzo(a)pyrene	---	---	---
Dichlorodifluoromethane	3E-05	7E-07	6E-05
cis-1,2-Dichloroethylene	2E-01	5E-03	NTD
trans-1,2-Dichloroethylene	3E-01	6E-03	NTD
Di-n-octylphthalate	1E-03	8E-02	NTD
Naphthalene	1E-03	2E-04	NTD
Tetrachloroethylene	1E-02	1E-03	9E-03
Trichloroethene	2E-02	8E-04	1E-02
1,2,4-Trimethylbenzene	2E-04	6E-05	NTD
Arsenic	2E+00	3E-03	NTD
Barium	1E-02	2E-05	4E-02
Chromium	4E-03	8E-06	NTD
Manganese	3E-03	6E-06	7E-01
Mercury	1E-02	2E-05	6E-03
Uranium	7E-01	1E-03	NTD
Total hazard indices by pathway and site:	3E+00	1E-01	7E-01

"---" indicates that the COPC transit time to the aquifer exceeds 10,000 years or that the COPC is not considered a volatile for this pathway.
NTD indicates that toxicity data is not available.