Operable Unit E Risk Assessment Report

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Executive Summary

Overview

This report presents the results of a Human Health Risk Assessment (HHRA) and a Baseline Ecological Risk Assessment (BERA) performed for Operable Unit E (OUE) at the U.S. Department of the Army (Army) Fort Richardson facility near Anchorage, Alaska. The overall objective of these risk assessments is to define the existing risks to human and ecological receptors (i.e., to determine if chemicals released by activities on the site are causing adverse effects to potential receptors) using all relevant available data for OUE.

Fort Richardson is located on 62,000 acres of land northeast of the Municipality of Anchorage and Elmendorf Air Force Base (AFB). Within Fort Richardson, OUE is made up of two main areas: the Building 35-752 Area (which also includes the area around Building 35-750) and the Armored Vehicle Maintenance Area (AVMA). The Building 35-752 Area encompasses Buildings 35-752 and 35-750 and the surrounding areas (Figure 2-2). Building 35-752 was used as a generator building for the adjacent high-frequency transmitter site building (Building 35-750). Five distinct sub-areas within this site include the polychlorinated biphenyl (PCB) oil burning site, the transformer oil draining location, the transformer mounting area, the peripheral road around Building 35-750, and the footprint of the former PCB-contaminated soil stockpile. The AVMA was used as a gravel source in 1950, during construction of the railroad. Later, in the 1950s and 1960s, it served as a military vehicle wash area. Since 1973, the area has been used as a training area and obstacle course. While most structures have been removed, two buildings and several foundation pads remain (Astley *et al*., 2001). Each site is described in more detail within each assessment.

Human Health Risk Assessment

This baseline HHRA was performed for OUE using analytical data from surface soil (0 to 0.5 foot below ground surface [bgs]), subsurface soil (0 to 10 feet bgs), and groundwater for the purpose of site characterization at the Building 35-752 and Armored Vehicle Maintenance Area (AVMA) sites. The purpose of the HHRA is to determine the potential for risk to human health under current and reasonably anticipated future land and water uses. This HHRA is considered "baseline" because it provides an assessment of the potential impacts of past releases to soil and groundwater on human populations under the assumption that no additional remediation will occur at the site.

For the Building 35-752 area, surface and subsurface soil samples collected in 1990, 1994, 1996, 2001, and 2002 were partitioned into the following exposure areas:

- Building 35-752
- Burn Pit Area
- Cooling Pond Area

- Former Drum Accumulation
- Former Tank Location
- Periphery Road
- Soil Stockpile Area
- Transformer Mounting
- Entire site (all eight areas)

For the AVMA site, surface and subsurface soil samples collected in 2001 and 2002 were used to evaluate the entire area as a single exposure area.

Groundwater analytical data include samples from 7 wells at the Building 35-752 site and 34 wells at the AVMA site. All the data used for the groundwater analyses were collected during multiple sampling events from 2002 through 2003. Risks for groundwater were evaluated on a well-specific basis.

Potentially Complete Human Exposure Pathways

Based on current understanding of land and groundwater beneficial use conditions at or near OUE, the most plausible exposure settings considered for characterizing human health risks are as follows:

- **Current Site-Specific Worker Scenario**–Under current site conditions, site-specific workers could potentially be exposed to soil during maintenance and military activities at the site. At the current time, the average rotation of job tenure at these sites is 3 years (Prieksat, 2003). Potential routes of exposure to surface soil (0 to 0.5 feet bgs) for the current site-specific worker include incidental soil ingestion, dermal contact with soil, and inhalation of ambient vapors or dust generated by wind.

- **Future Onsite Industrial Worker Scenario**–Under future site conditions, onsite industrial workers could potentially be exposed to soil during maintenance and military activities at the site. Potential routes of exposure to surface soil (0 to 0.5 feet bgs) for the onsite industrial worker include incidental soil ingestion, dermal contact with soil, and inhalation of ambient vapors or dust generated by wind.

- **Onsite Trespasser Scenario**–Although access to OUE is restricted, a trespasser scenario was evaluated assuming unauthorized access is gained to the areas surrounding Building 35-752 or the AVMA. A trespasser who infrequently gains unauthorized access to OUE could potentially become exposed to surface soils at the site. Potential routes of exposure to surface soil (0 to 0.5 feet bgs) for the onsite trespasser include incidental soil ingestion, dermal contact with soil, and inhalation of ambient vapors or dust generated by wind.

- **Hypothetical Future Residential Scenario**–No residents are expected to live at OUE in the future; however, because of the proximity of post housing approximately 0.5 miles east of OUE, it is plausible that residents could gain unauthorized access to the site in the future. Therefore, as a conservative estimate for site decisionmaking, a hypothetical future residential scenario is considered in this HHRA. The results from evaluation of this scenario will provide a frame of reference to indicate the potential significance of future land-use changes, if any. For soil, the plausible exposure routes for the

hypothetical future onsite resident include incidental soil ingestion, dermal contact with soil, and inhalation of ambient vapors or dust generated by wind. For groundwater, the plausible exposure routes for the hypothetical future onsite resident include ingestion, dermal contact during showering, and inhalation of volatile organic compounds during showering or other household uses.

- **Onsite Excavation Worker Scenario**–Under future site conditions, onsite excavation workers could potentially be exposed to subsurface soil during infrequent excavation activities at or near the site. These activities could include placement or repair of utilities or other construction activities involving digging. Potential routes of exposure to subsurface soil (0 to 10 feet bgs) for the onsite excavation worker include incidental soil ingestion, dermal contact with soil, and inhalation of ambient vapors or dust generated by wind or during excavation activities.

Summary of Risk Estimates for the Building 35-752 Area

Soil

The noncancer hazard index (HI) and excess lifetime cancer risk (ELCR) estimates for soils in the eight exposure areas, as well as for the entire Building 35-752 Area, are summarized in Table ES-1 for each of the identified exposure scenarios. The ranges of ELCR estimates for all exposure areas, and for each exposure scenario, were as follows:

- Current site-specific worker: $3x10^{-9}$ to $3.3x10^{-6}$
- Onsite industrial worker: $3x10^{-8}$ to $1x10^{-5}$
- Onsite trespasser: $2x10^{-9}$ to $7x10^{-7}$
- Hypothetical future resident: $9x10^{-8}$ to $4x10^{-5}$
- Onsite excavation worker: $3x10^{-8}$ to $4x10^{-6}$

These are all within or below the regulatory target risk range of $1x10^{-6}$ to $1x10^{-4}$. Therefore, no COPCs are identified in soil for the Building 35-752 Area.

Groundwater

Seven wells were evaluated at the Building 35-752 site (AP-2982, AP-2983, AP-2987, AP-3231, AP-3232, AP-3458, and AP-3503) (Figure 2-2). The noncancer HI and ELCR estimates for these wells are summarized in Table ES-2, along with the primary risk contributors for each well. For a hypothetical future residential groundwater scenario, the cumulative ELCR estimates for seven wells located at the Building 35-752 area ranged from $6x10^{-7}$ to $5x10^{-5}$, all within or below the regulatory target risk range of $1x10^{-6}$ to $1x10^{-4}$.

The HIs for the seven wells located at Building 35-752 ranged from 0.03 to 13. The HIs at two of these wells (AP-2982 and AP-2987) exceed the regulatory threshold value of 1.0. The primary contributors to the noncancer HI (chemicals with HQ greater than 1.0) include the following COPCs in groundwater for the Building 35-752 Area:

- 1,2,4-trimethylbenzene (wells AP-2982 and AP-2987)
- 1,3,5-trimethylbenzene (well AP-2982)
- Naphthalene (well AP-2982)

Table ES-4
Summary of Risk Estimates for Groundwater at AVMA
Hypothetical Future Residential Scenario
OUE, Fort Richardson, Alaska

		Residential Scenario			
Groundwater Well	**Exposure Route**	**ELCR**	**HI**	**Primary Contributor to Total ELCR[a]**	**Primary Contributors to Total HI[a]**
All AVMA Groundwater	Ingestion	5.1E-04	213	Arsenic ELCR=4.8E-04 (85%)	Iron HQ=139 (64%)
	Dermal	1.8E-05	4.4	Tetrachloroethylene (PCE) ELCR=6.1E-05 (11%)	Manganese HQ=33 (15%)
	Inhalation	3.1E-05	0.48		Aluminum HQ=21 (10%)
	Total	5.6E-04	218		
AP-2980	Ingestion	--	0.020	--	Chloroform HQ=1.1 (100%)
	Dermal	--	0.00027		
	Inhalation	--	1.1		
	Total	--	1.2		
AP-3441	Ingestion	6.7E-07	0.0081	Methlyene Chloride ELCR=1.4E-06 (100%)	--
	Dermal	4.8E-09	0.000092		
	Inhalation	7.3E-07	0.26		
	Total	1.4E-06	0.27		
AP-3467	Ingestion	5.4E-07	0.0086	--	--
	Dermal	2.4E-08	0.00030		
	Inhalation	9.4E-08	0.012		
	Total	6.6E-07	0.021		
AP-3468	Ingestion	6.6E-05	8.8	Tetrachloroethylene (PCE) ELCR=1.3E-04 (98%)	Chromium HQ=9.3 (88%)
	Inhalation	4.4E-06	1.3	Carbon Tetrachloride ELCR=3.0E-06 (2%)	
	Dermal	6.4E-05	0.36		
	Total	1.3E-04	11		
AP-3483	Ingestion	7.1E-06	0.0019	Dibenz(a,h)anthracene ELCR=2.5E-05 (92%)	--
	Dermal	1.9E-05	0.000014	Benzo(b)fluoranthene ELCR=1.5E-06 (5%)	
	Inhalation	4.0E-07	0.00067		
	Total	2.7E-05	0.0026		
AP-3532	Ingestion	4.5E-06	0.11	Carbon Tetrachloride ELCR=1.3E-05 (96%)	--
	Dermal	1.4E-07	0.0036		
	Inhalation	9.0E-06	0.60		
	Total	1.4E-05	0.71		
AP-3534	Ingestion	3.0E-05	0.12	Tetrachloroethylene (PCE) ELCR=5.2E-05 (77%)	--
	Dermal	1.3E-05	0.008	Dibenz(a,h)anthracene ELCR=1.4E-05 (21%)	
	Inhalation	2.5E-05	0.034	Indeno(1,2,3-c,d)pyrene ELCR=1.4E-06 (2%)	
	Total	6.7E-05	0.16		
AP-3650	Ingestion	7.3E-07	0.02	Carbon Tetrachloride ELCR=2.1E-06 (95%)	--
	Dermal	2.2E-08	0.001		
	Inhalation	1.4E-06	0.21		
	Total	2.2E-06	0.23		
AP-3772	Ingestion	8.8E-07	0.0028	Chloromethane ELCR=1.2E-06 (51%)	--
	Dermal	6.1E-09	0.000020	Methylene Chloride ELCR=1.1E-06 (49%)	
	Inhalation	1.4E-06	0.0046		
	Total	2.3E-06	0.0074		
AP-3774	Ingestion	5.5E-07	0.012	Carbon Tetrachloride ELCR=1.1E-06 (72%)	--
	Dermal	2.5E-08	0.00042		
	Inhalation	9.0E-07	0.13		
	Total	1.5E-06	0.14		

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Hypothetical Future Residential Scenario

OUE, Fort Richardson, Alaska

		Residential Scenario			
Groundwater Well	**Exposure Route**	**ELCR**	**HI**	**Primary Contributor to Total ELCR[a]**	**Primary Contributors to Total HI[a]**
AP-3775	Ingestion	7.3E-07	0.0035	--	--
	Dermal	3.3E-08	0.00016		
	Inhalation	7.3E-07	0.0016		
	Total	1.5E-06	0.0053		
AP-3776	Ingestion	1.2E-06	1.0	Carbon Tetrachloride ELCR=2.1E-06 (66%)	Chromium HQ=1.1 (88%)
	Dermal	5.7E-08	0.16	Tetrachloroethylene (PCE) ELCR=1.1E-06 (34%)	
	Inhalation	1.9E-06	0.13		
	Total	3.1E-06	1.3		
AP-3789	Ingestion	6.4E-06	0.03	Tetrachloroethylene (PCE) ELCR=1.3E-05 (100%)	--
	Dermal	4.3E-07	0.002		
	Inhalation	6.2E-06	0.0088		
	Total	1.3E-05	0.04		
AP-3790	Ingestion	--	0.0056	--	--
	Dermal	--	0.00011		
	Inhalation	--	0.26		
	Total	--	0.27		
AP-3870	Ingestion	4.8E-07	0.015	Carbon Tetrachloride ELCR=1.5E-06 (100%)	--
	Dermal	1.6E-08	0.00049		
	Inhalation	9.8E-07	0.14		
	Total	1.5E-06	0.15		
AP-3871	Ingestion	1.6E-06	1.4	Carbon Tetrachloride ELCR=3.3E-06 (83%)	Antimony HQ=1.6 (63%)
	Dermal	5.7E-08	0.19		
	Inhalation	2.4E-06	0.87		
	Total	4.0E-06	2.5		
AP-3872	Ingestion	5.0E-07	0.01	--	--
	Dermal	2.4E-08	0.0005		
	Inhalation	4.7E-08	0.30		
	Total	5.7E-07	0.32		
AP-3893	Ingestion	4.9E-05	0.0002	Dibenz(a,h)anthracene ELCR=1.1E-04 (64%)	--
	Dermal	1.1E-04	0.00001	Benzo(a)pyrene ELCR=4.5E-05 (27%)	
	Inhalation	--	0.00062	Indeno(1,2,3-c,d)pyrene ELCR=7.2E-06 (4%)	
	Total	1.6E-04	0.001	Benzo(b)fluoranthene ELCR=5.8E-06 (4%)	
AP-3894	Ingestion	1.2E-06	0.002	Chloromethane ELCR=3.0E-06 (81%)	--
	Dermal	8.1E-09	0.00002		
	Inhalation	2.5E-06	0.038		
	Total	3.7E-06	0.04		
AP-3895	Ingestion	7.2E-07	0.001	Chloromethane ELCR=1.6E-06 (75%)	--
	Dermal	4.9E-09	0.00001		
	Inhalation	1.4E-06	0.0055		
	Total	2.1E-06	0.007		
AP-3896	Ingestion	8.7E-04	4.5	Arsenic ELCR=8.7E-04 (100%)	Arsenic HQ=4.5 (100%)
	Dermal	1.8E-06	0.009		
	Inhalation	--	0.00049		
	Total	8.7E-04	4.5		
AP-4154	Ingestion	1.1E-07	0.001	--	--
	Dermal	8.0E-10	0.0001		
	Inhalation	1.7E-07	0.00090		
	Total	2.9E-07	0.002		

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Hypothetical Future Residential Scenario

OUE, Fort Richardson, Alaska

		Residential Scenario			
Groundwater Well	**Exposure Route**	**ELCR**	**HI**	**Primary Contributor to Total ELCR[a]**	**Primary Contributors to Total HI[a]**
AP-4155	Ingestion	1.4E-07	0.49	--	--
	Dermal	9.9E-10	0.079		
	Inhalation	1.9E-07	0.0014		
	Total	3.3E-07	0.57		
AP-4336	Ingestion	4.9E-04	24	Arsenic ELCR=4.9E-04 (99%)	Iron HQ=14 (53%)
	Dermal	1.0E-06	0.46	Bromodichloromethane ELCR=2.3E-06 (<1%)	Aluminum HQ=3.8 (15%)
	Inhalation	2.5E-06	1.4		Arsenic HQ=2.6 (10%)
	Total	5.0E-04	26		Chromium HQ=2.6 (10%)
AP-4337	Ingestion	4.5E-04	3.3	Arsenic ELCR=4.5E-04 (98%)	Arsenic HQ=2.3 (60%)
	Dermal	1.0E-06	0.13	Carbon Tetrachloride ELCR=7.1E-06 (2%)	
	Inhalation	4.7E-06	0.47		
	Total	4.6E-04	3.9		
AP-4338	Ingestion	2.9E-03	243	Arsenic ELCR=2.9E-03 (100%)	Iron HQ=139 (56%)
	Dermal	5.9E-06	6.2		Manganese HQ=33 (13%)
	Inhalation	6.6E-07	0.65		Chromium HQ=23 (9%)
	Total	2.9E-03	249		Aluminum HQ=21 (8%)
					Arsenic HQ=15 (6%)
AP-4339	Ingestion	4.5E-07	7.3	--	Chromium HQ=7.4 (87%)
	Dermal	1.3E-08	1.0		
	Inhalation	9.3E-07	0.18		
	Total	1.4E-06	8.5		
AP-4341	Ingestion	2.2E-06	0.1	Tetrachloroethylene (PCE) ELCR=2.8E-06 (54%)	--
	Dermal	1.2E-07	0.003	Carbon Tetrachloride ELCR=2.2E-06 (43%)	
	Inhalation	2.9E-06	0.11		
	Total	5.2E-06	0.2		
AP-4342 (using total metals)	Ingestion	5.7E-05	19	Tetrachloroethylene (PCE) ELCR=1.1E-04 (95%)	Iron HQ=14 (68%)
	Dermal	3.7E-06	0.39	Carbon Tetrachloride ELCR=5.8E-06 (5%)	Aluminum HQ=2.5 (12%)
	Inhalation	5.6E-05	0.38		Chromium HQ=2.4 (12%)
	Total	1.2E-04	20		
AP-4342 (using dissolved metals)	Ingestion	5.7E-05	0.46	Tetrachloroethylene (PCE) ELCR=1.1E-04 (95%)	--
	Dermal	3.7E-06	0.025	Carbon Tetrachloride ELCR=5.8E-06 (5%)	
	Inhalation	5.6E-05	0.38		
	Total	1.2E-04	0.86		
AP-4411	Ingestion	1.2E-05	0.066	Tetrachloroethylene (PCE) ELCR=2.2E-05 (92%)	--
	Dermal	7.6E-07	0.0038	Carbon Tetrachloride ELCR=1.9E-06 (8%)	
	Inhalation	1.2E-05	0.10		
	Total	2.4E-05	0.17		
AP-4413	Ingestion	8.1E-05	0.44	Tetrachloroethylene (PCE) ELCR=1.6E-04 (94%)	--
	Dermal	5.3E-06	0.026	Carbon Tetrachloride ELCR=1.1E-05 (6%)	
	Inhalation	8.1E-05	0.64		
	Total	1.7E-04	1.1		
AP-4414	Ingestion	7.7E-08	0.00015	--	--
	Dermal	5.2E-10	0.000015		
	Inhalation	1.9E-07	0.019		
	Total	2.7E-07	0.019		

Table ES-4

Summary of Risk Estimates for Groundwater at AVMA

Hypothetical Future Residential Scenario

OUE, Fort Richardson, Alaska

		Residential Scenario			
Groundwater Well	**Exposure Route**	**ELCR**	**HI**	**Primary Contributor to Total ELCR[a]**	**Primary Contributors to Total HI[a]**
AP-4415	Ingestion	3.1E-07	0.0016	--	--
	Dermal	2.1E-08	0.00010		
	Inhalation	3.0E-07	0.0077		
	Total	6.3E-07	0.0094		
AP-4416	Ingestion	3.1E-07	0.0034	Benzene ELCR=1.1E-06 (100%)	--
	Dermal	9.5E-09	0.00010		
	Inhalation	8.2E-07	0.012		
	Total	1.1E-06	0.015		

[a] Primary contributors for groundwater are listed for constituents with ELCR > 10-6 or HQ > 1.0 . The five primary contributors are listed, if more than five. See individual tables for all constituents.

contributors to the noncancer HI (chemicals with HQ more than 1.0) at these 11 wells include the following:

- Aluminum (wells AP-4336, AP-4338, and AP-4342)
- Antimony (well AP-3871)
- Arsenic (wells AP-3896, AP-4336, AP-4337, and AP-4338)
- Chloroform (well AP-2980)
- Chromium (wells AP-3468, AP-3776, AP-4336, AP-4338, AP-4339, and AP-4342)
- Iron (wells AP-4336, AP-4338, and AP-4342)
- Manganese (well AP-4338)

A majority of the AVMA wells in the shallow, unconfined aquifer could not be developed using standard approaches due to the high silt load observed in water in the wells. Some were developed using a bailer because available pumps were not capable of carrying the high silt loads from the depths to water in the wells. Generally, the wells installed in the shallow, unconfined aquifer were turbid, contained little standing water, and yielded little water. Due to the presence of groundwater sample turbidity that could bias groundwater concentrations, the measured levels of metals in groundwater are believed to be unrelated to site releases.

The COPCs identified that are believed to be potentially site-related releases include the following:

- Carcinogenic PAHs (well AP-3893)
- Chloroform (well AP-2980)
- Bromodichloromethane (well AP-4336)
- Carbon tetrachloride (wells AP-3468, AP-4337, AP-4342, and AP-4413)
- PCE (wells AP-3468, AP-4342, and AP-4413)

Baseline Ecological Risk Assessment

This BERA was performed for OUE using analytical data from surface soil (0 to 1 foot bgs) and subsurface soil (0 to 6 feet bgs) for the purpose of site characterization at the Building 35-752 and AVMA sites. The overall objective of this BERA is to define the existing risks to ecological receptors (i.e., to determine if chemicals released by activities on the site are causing adverse effects to ecological receptors at or adjacent to the site) using all relevant available data for OUE.

For both the AVMA site and the Building 35-752 Area, surface and subsurface soil samples were used to evaluate each area as a single exposure area.

Potentially Complete Ecological Exposure Pathways

The focus of this OUE BERA is on direct or indirect exposure of ecological receptors to chemicals of potential ecological concern (COPECs) found in site soils. Potential exposure pathways for ecological receptors at Building 35-752 and the AVMA are summarized below:

- Direct uptake and dermal contact by terrestrial plants
- Ingestion and dermal contact by terrestrial invertebrates

- Incidental ingestion of soil by terrestrial vertebrates (birds and mammals)
- Food-chain transfer to terrestrial vertebrates via ingestion of contaminated plants, invertebrates, and wildlife

Except in the case of burrow-dwelling animals (such as pocket gophers), a receptor's exposure to contaminants by inhalation and dermal contact usually contributes little to its overall exposure. Receptors being evaluated in this assessment do not include burrow-dwelling animals, because other receptors were determined to be more representative of receptors on-site and no evidence of burrowing animals was observed at the site during the site visit. Therefore, dermal and inhalation exposures were considered negligible, and the emphasis of the OUE BERA was placed on exposure of ecological receptors through direct contact (terrestrial invertebrates), ingestion/uptake directly from contaminated soil (terrestrial plants, terrestrial invertebrates, and birds and mammals), or uptake of COPECs through the food chain (birds and mammals).

Ecological Management Goals, Assessment Endpoints, and Measures

The following ecological management goals were developed for OUE:

- Protection of communities of terrestrial plants and invertebrate animals that are characteristic of local habitats
- Protection of populations of vertebrate animals (birds and mammals) that are characteristic of local habitats

The assessment endpoint entities for OUE were selected based on the following principal criteria:

- Ecological relevance
- Political and societal relevance
- Susceptibility to known or potential stressors
- Consistency with ecological management goals. The maximum acceptable adverse effect level generally selected for the assessment endpoints is a 20% reduction in the measured attribute. Terrestrial plants and invertebrates were evaluated at the community level while birds and mammals were evaluated at the population level. Measures of effect were identified for each group, as follows:
  - Community-Level Measures
    - Effects on growth, reproduction, or survival that may affect terrestrial plant community composition, density, species diversity, or community structure
    - Effects on growth, reproduction, or survival that may affect terrestrial invertebrate community composition, density, species diversity, or community structure

- Population-Level Measures
  - Effects on growth, reproduction, or survival that may affect abundance of bird species
  - Effects on growth, reproduction, or survival that may affect abundance of mammalian species

Representative Species

Wildlife receptors for OUE include the American robin as an avian omnivore and the bald eagle as an avian carnivore, the red-backed vole and the moose as mammalian herbivores, and the masked shrew and the coyote as mammalian omnivores. While the Fort Richardson Operable Unit D (OUD) Ecological Risk Assessment (ENSR, 1998a) used red fox as the mammalian omnivore, the coyote was selected for this evaluation because a coyote den was identified on the AVMA site and coyotes were considered more likely receptors.

Exposure Assessment

Terrestrial plants experience exposure primarily through the soil where they live. Although other exposure pathways, such as water, may contribute to total exposure for this receptor group, exposure through the soil predominates. Consequently, estimates of exposure for terrestrial plants may be represented as the concentration of COPECs in the soil. Because plants are not mobile, their exposure is best represented by maximum COPEC concentrations in the soil. For the purposes of this assessment, plants were evaluated for COPECs in soils from 0 to 6 feet bgs.

Terrestrial invertebrates experience exposure primarily through the soil in which they reside. Although other exposure pathways may contribute to total exposure for this receptor group, exposure through soil predominates. Consequently, estimates of exposure for terrestrial invertebrates may be represented as the concentration of COPECs in the soil. Because mobility of invertebrates is limited or absent, their exposure is best represented by maximum COPEC concentrations in the soil. For the purposes of this assessment, invertebrates were evaluated for COPECs in soils from 0 to 6 feet bgs.

Birds and mammals experience exposure through multiple pathways, including ingestion of abiotic media (soil and surface water) and biotic media (food), as well as inhalation and dermal contact. To address this multiple pathway exposure, modeling is required. The necessary input parameters to the exposure model are presented in Section 3.1.3 of the BERA. Exposure estimates for bird and mammal receptors were generated based on model assumptions, life history parameters, and estimated concentrations in exposure media (soil) and food sources.

Ecological Effects Assessment

The ecological effects assessment consists of an evaluation of available toxicity or other effects information that can be used to relate the exposures to COPECs and adverse effects in ecological receptors. Data that can be used to evaluate ecological risks resulting from exposure to contaminants include literature-derived or site-specific single-chemical toxicity data, site-specific ambient-media toxicity tests, and site-specific field surveys (Suter *et al.*,

2000). For this assessment, only single-chemical toxicity data from literature sources were available.

Summary of Risk Estimates

Both quantitative and qualitative evaluations were considered when developing risk conclusions for each receptor. Quantitative evaluations consisted of the hazard quotient (HQ = exposure measure/effects measure) approach. The qualitative evaluation considered factors such as magnitude of HQ, frequency of detection, incremental risk, and bioavailability of COPECs. Conclusions for each exposure area are presented in Table ES-5 and described briefly below.

Building 35-752 Area

Risk at the Building 35-752 Area is considered insignificant for most receptors. While some quantitative evaluations indicate risk, qualitative review suggests that risks are unlikely or insignificant.

Risk to masked shrews associated with exposure to lead and total tetrachlorodibenzodioxin (TCDD) toxicity equivalent quotients (TEQs) at Building 35-752 cannot be eliminated. However, this risk is considered low given the results of the qualitative evaluation (e.g., bioavailability of lead, low magnitude of exceedance of the lowest observed adverse effect level [LOAEL]-based toxicity reference values [TRVs]).

Armored Vehicle Maintenance Area

Risks to receptors at the AVMA are considered insignificant or unlikely for the terrestrial invertebrates, coyote, moose, and bald eagle. While some quantitative evaluations indicate risk, qualitative review suggests that risks are unlikely or insignificant for these receptors.

Risk to the terrestrial plant community from exposure to vanadium and selenium cannot be excluded, but the qualitative evaluation suggests that risk from selenium and vanadium is low.

Although risk to American robins from exposure to selenium, DDT, and di-n-butyl phthalate cannot be excluded, the qualitative evaluation (e.g., low magnitude of TRV exceedance, absence from the site during about half of the year, and non-contiguous areas of contamination that decrease the potential for exposure of robins foraging at the site to COPECs) indicates that this risk is low.

Risk to the masked shrew from selenium and vanadium cannot be excluded, but qualitative evaluation (i.e., limited bioavailability, low magnitude of TRV exceedances) indicates that this risk is low.

Although aluminum was eliminated as a COPEC at the AVMA, risk to red-backed voles from exposure to selenium could not be excluded. However, this risk is expected to be low due to the limited bioavailability of selenium, the low magnitude of TRV exceedance, and the patchy distribution of contamination at the site.

TABLE ES-5
Summary Table of Analytes and Receptors with LOAEL-based HQs Greater than One
Baseline Ecological Risk Assessment, Operable Unit E, Fort Richardson, Alaska

Receptor	Analyte	HQ[a]	Qualitative Review	Overall Conclusion
Building 35-752 Area				
Terrestrial Plants	Chromium, total	64.0	Few samples greater than background, low confidence in toxicity value, unlikely to be 100% bioavailable	No significant risk
	Lead	4.00	Only 4 of the 49 samples (8%) exceeded the plant benchmark (50 mg/kg), HQ of 4 for the maximum lead concentration at the site is considered low in magnitude	No significant risk
	Zinc	1.72	Only 1 of 9 samples (11%) exceeded background, low HQ	No significant risk
	PCB-1260 (Aroclor 1260)	2.50	Only 1% of samples exceeded benchmark, low HQ	No significant risk
Terrestrial Invertebrates	Barium	2.59	Just 18% of samples greater than background, low HQ	No significant risk
	Chromium, total	160	Low proportion of samples exceeding background and low confidence in the benchmark	No significant risk
	PCB-1260 (Aroclor 1260)	1.09	Low percentage of samples exceeding the benchmark (only 1 of 111 samples or less than 1%), low HQ	No significant risk
American Robin	Lead	1.88	Unlikely to be 100% bioavailable, low HQ, spend only about 50% of the year in area	No significant risk
	2,3,7,8-tetrachlorodibenzofuran	1.65	Low HQ, spend only about 50% of the year in area	No significant risk
	p,p'-DDD	3.00	Low HQ, spend only about 50% of the year in area	No significant risk
	p,p'-DDT	2.49	Low HQ, spend only about 50% of the year in area	No significant risk
Masked Shrew	Lead	1.20	Low bioavailability in mammals, low HQ	Low risk
	Total TCDD-mammal	2.24	Low HQ	Low risk
Armored Vehicle Maintenance Area				
Terrestrial Plants	Aluminum	522	Soluble aluminum is not expected to occur in AVMA soils	No significant risk
	Arsenic	1.10	Only 1 of the 16 detects (6%) was above background, low HQ	No significant risk
	Chromium, total	51.0	Only 2 samples (11%) were greater than background, low confidence in benchmark	No significant risk
	Manganese	1.70	Only 1 of 17 samples (6%) exceeded background, low HQ	No significant risk
	Nickel	2.07	Only 1 sample (6%) exceeded background,	No significant risk

TABLE ES-5
Summary Table of Analytes and Receptors with LOAEL-based HQs Greater than One
Baseline Ecological Risk Assessment, Operable Unit E, Fort Richardson, Alaska

Receptor	Analyte	HQ[a]	Qualitative Review	Overall Conclusion
			low HQ	
	Selenium	11.0	All but one of the detected concentrations were estimated, unlikely to be 100% bioavailable	Low risk
	Vanadium	43.5	Toxicity benchmark is overly conservative (background exceeded benchmark)	Low risk
	Zinc	2.80	Only 2 samples (12%) exceeded the background value, low HQ	No significant risk
	Benzo(a)pyrene	1.55	Detected in just 30% (6) of the 20 samples, and just 1 of 6 samples (17%) exceeded the plant benchmark, low HQ	No significant risk
Terrestrial Invertebrates	Barium	1.41	Toxicity value is less than background, low HQ	No significant risk
	Chromium, total	128	Low proportion of samples exceeding background and low confidence in the benchmark	No significant risk
American Robin	Selenium	1.12	Low HQ, spend only about 50% of the year in area	Low risk
	p,p'-DDT	1.94	Low HQ, spend only about 50% of the year in area	Low risk
	Di-n-butyl phthalate	1.14	Low HQ, spend only about 50% of the year in area	Low risk
Masked Shrew	Aluminum	48.6	Soluble aluminum is not expected to occur in AVMA soils	No significant risk
	Selenium	3.17	Unlikely to be 100% bioavailable, low HQ	Low risk
	Vanadium	1.27	Unlikely to be 100% bioavailable, low HQ	Low risk
Coyote	Aluminum	1.44	Soluble aluminum is not expected to occur in AVMA soils	No significant risk
Moose	Aluminum	1.54	Soluble aluminum is not expected to occur in AVMA soils	No significant risk
Red-backed Vole	Aluminum	5.20	Soluble aluminum is not expected to occur in AVMA soils	No significant risk
	Selenium	2.17	Unlikely to be 100% bioavailable, low HQ	Low risk

[a] HQ = hazard quotient; LOAEL-based HQs were presented only if the LOAEL TRV was exceeded.
LOAEL = Lowest Observed Adverse Effects Level
mg/kg = milligrams per kilogram
TCDD = tetrachlorodibenzo-p-dioxin
TRV = toxicity reference value

Report

Baseline Human Health Risk Assessment

Operable Unit E
Fort Richardson, Alaska

Prepared for

U.S. Army Corps of Engineers

April 2004

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ANC/033430067

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Abbreviations

AFB	Air Force Base
AVMA	Armored Vehicle Maintenance Area
bgs	below ground surface
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
cm^2	square centimeter
COPC	chemical of potential concern
COE	U.S. Army Corps of Engineers
CSM	conceptual site model
ELCR	excess lifetime cancer risk
EPA	U.S. Environmental Protection Agency
EPC	exposure point concentration
FS	feasibility study
HEAST	Health Effects Assessment Summary Table
HHRA	Human Health Risk Assessment
HI	hazard index
HQ	hazard quotient
IRIS	Integrated Risk Information System
kg	kilogram
L	liter
m^3	cubic meter
mg	milligram
mg/kg-day	milligrams per kilogram per day
mg/L	milligrams per liter
OUE	Operable Unit E
OUD	Operable Unit D
PCB	polychlorinated biphenyl
PRG	preliminary remediation goal

QA	quality assurance
QC	quality control
RI	remedial investigation
RfD	reference dose
RME	reasonable maximum exposure
SF	slope factor
TCE	trichloroethene
TCDD	tetrachlorodibenzodioxin
TEQ	toxicity equivalent quotient
TPH	total petroleum hydrocarbons
UCL	upper confidence limit
VOC	volatile organic compound

SECTION 1

Introduction

This document provides the results of the baseline human health risk assessment (HHRA) for the Operable Unit E (OUE) remedial investigation (RI) project at Fort Richardson, Alaska (Figure 1-1). The purpose of the HHRA is to determine the potential for risk to human health under current and reasonably anticipated future land and water uses. This HHRA is considered "baseline" because it provides an assessment of the potential impacts of past releases to soil and groundwater on human populations under the assumption that no additional remediation will occur at the site. This baseline assumption is required under Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) to provide justification for future remedies at OUE.

1.1 Organization of the Risk Assessment

This baseline HHRA includes the following components:

- **Section 1: Introduction.** Describes the purpose of the HHRA, organization of this report, and the human health risk assessment guidance used to characterize risk for OUE.
- **Section 2: Selection of Chemicals of Potential Concern.** Identifies the constituents considered to be most important to the human health risk quantification processes.
- **Section 3: Exposure Assessment.** Identifies the pathways by which potential human exposures could occur, describes how they are evaluated, and evaluates the magnitude, frequency, and duration of these exposures.
- **Section 4: Toxicity Assessment.** Summarizes the toxicity of the selected chemicals and the relationship between magnitude of exposure and the occurrence of adverse health effects.
- **Section 5: Human Health Risk Characterization.** Integrates information from the exposure and toxicity assessments to characterize the risks to human health from potential exposure to chemicals in environmental media.
- **Section 6: Identification of Major Uncertainties and Assumptions.** Summarizes the basic assumptions used in the HHRA, as well as limitations of data and methodology.
- **Section 7: References.** Lists the references used in writing this HHRA.

1.2 Human Health Risk Assessment Guidance

The procedures used for the HHRA are consistent with those described in the following U.S. Environmental Protection Agency (EPA) guidance documents:

- *Risk Assessment Guidance for Superfund (RAGS)–Volume I: Human Health Evaluation Manual, Part A (Interim Final)* (1989)

- *Human Health Evaluation Manual, Supplemental Guidance: Standard Default Exposure Factors,* OSWER Directive 9285.6-03 (1991a)
- *Risk Assessment Guidance for Superfund–Volume 1: Human Health Evaluation Manual, Part B (Development of Risk-Based Preliminary Remediation Goals*), EPA/540/R-92/003, Publication 9285.7-01B (1991b)
- *Soil Screening Guidance: User's Guide.* EPA/540/R-96/018 (1996)
- *Exposure Factors Handbook Volume I General Factors,* EPA/600/P-95/002Fa (1997a)
- *Risk Assessment Guidance for Superfund–Volume I: Human Health Evaluation Manual, Part E (Supplemental Guidance for Dermal Risk Assessment Interim)* (2001)

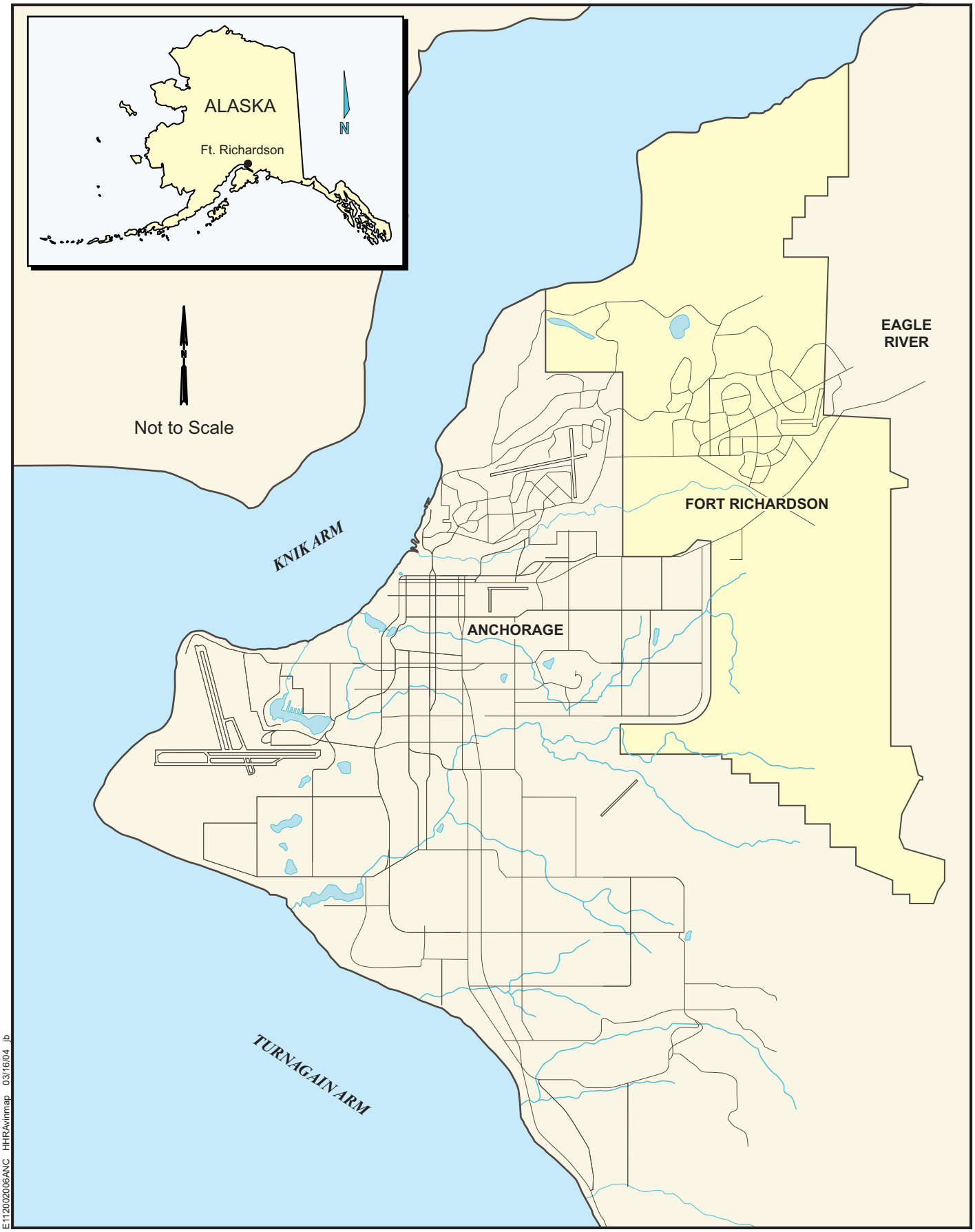

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Figure 1-1
Location of Fort Richardson
Operable Unit E Human Health Risk Assessment
Fort Richardson, Alaska

SECTION 2

Selection of Chemicals of Potential Concern

Chemicals of potential concern (COPCs) are those chemicals that should be carried through the human risk quantification process. This section summarizes those chemicals detected in environmental media at the site and identifies the COPCs for environmental media that are accessible for human exposures. During the course of the HHRA, the COPCs are evaluated to identify and prioritize those chemicals that are estimated to pose an unacceptable risk and that should be addressed by the feasibility study (FS).

2.1 Data Used in the Risk Assessment

Analytical data for this HHRA include those from surface soil (0 to 0.5 feet below ground surface [bgs]), subsurface soil (0 to 10 feet bgs), and groundwater samples collected for the purpose of site characterization. (Samples that include the 10-foot horizon as part of the sample interval are included in the risk assessment.) The following rules were used to identify data to be used in the HHRA:

- Estimated values flagged with a "J" qualifier (compound is present, but concentration is uncertain) were treated as detected concentrations.
- Data qualified as rejected (flagged "R") were not used in the risk assessment.

For duplicate samples, the following procedure was applied:

- If there were two detections, the average of the two concentrations was used.
- If there was one detection and one nondetection, the detected value was used.
- If there were two nondetects, the lowest detection limit was used.

A summary of the analytical data used in the risk assessment for soil and groundwater is provided in the subsections below.

2.1.1 Surface and Subsurface Soil

Site maps showing all sampling locations are provided in Figures 2-1 through 2-3. For the purposes of this HHRA, surface soil is defined as those soil samples collected between 0 and 0.5 feet bgs, and subsurface soil is defined as those soil samples collected between 0 and 10 feet bgs. For the purpose of assessing risk, the surface and subsurface soil samples were partitioned as follows:

2.1.1.1 Building 35-752

A total of 57 surface soil and 169 subsurface soil samples were collected during investigations in 1990, 1994, 1996, 2001, and 2002. A summary of all the surface and subsurface soil samples included in this HHRA is provided by exposure area, station

identification, sample identification, depth interval, and date of collection in Appendix A, Tables A-1 and A-2. These data were partitioned into the following eight exposure areas:

- **Building 35-752–**This exposure area includes 6 surface and 30 subsurface soil samples (Figure 2-2).
- **Burn Pit–**This exposure area includes 4 surface and 15 subsurface soil samples (Figure 2-2).
- **Cooling Pond–**This exposure area includes 14 surface and 24 subsurface soil samples (Figure 2-2).
- **Former Drum Accumulation–**This exposure area includes 8 surface and 24 subsurface soil samples (Figure 2-2).
- **Former Tank Location–**This exposure area includes 1 surface and 13 subsurface soil samples (Figure 2-2).
- **Periphery Road–**This exposure area includes 12 surface and 43 subsurface soil samples (Figure 2-2).
- **Soil Stockpile–**This exposure area includes 8 surface and 11 subsurface soil samples (Figure 2-2).
- **Transformer Mounting–**This exposure area includes 16 surface and 21 subsurface soil samples (Figure 2-2).

2.1.1.2 Armored Vehicle Maintenance Area

A total of 7 surface soil and 25 subsurface soil samples were collected during investigations in 2001 and 2002. A summary of all the surface and subsurface soil samples included in this HHRA is provided by station identification, sample identification, depth interval, and date of collection in Appendix A, Tables A-4 and A-5. These data were not partitioned into separate smaller exposure areas but were considered a single exposure area.

2.1.2 Groundwater

Site maps showing all groundwater sample locations are provided in Figures 2-2 and 2-3. A summary of all the groundwater samples included in this HHRA is provided by station identification, sample identification, and date of collection in Appendix A, Tables A-3 and A-6.

2.1.2.1 Building 35-752

Groundwater analytical data include samples from seven wells that are located within the boundaries of the Building 35-752 site (Figure 2-2). To provide the most current representation of potential risk at the Building 35-752 site, the data used for the groundwater analyses were collected during multiple sampling events from 2002 through 2003. The data from the latest two sampling rounds occurring in 2002/2003 were used for the HHRA to reflect the most current site conditions.

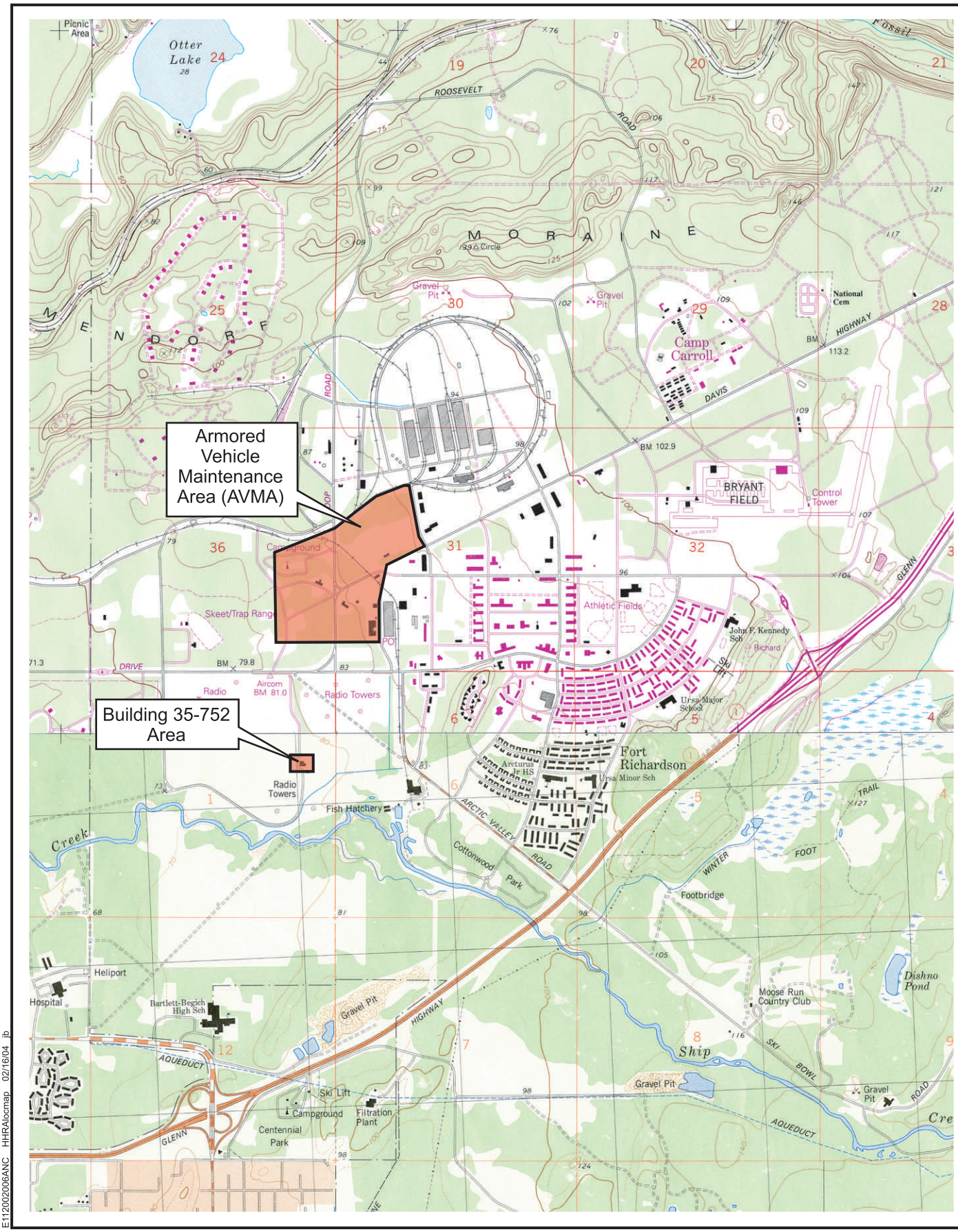

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Figure 2-1
Location of OUE Sites
Operable Unit E Human Health Risk Assessment
Fort Richardson, Alaska

PERIPHERAL ROAD

BUILDING 35-750

TRANSFORMER MOUNTING AREA

TRANSFORMER DISCHARGE AREA

BURN PIT AREA

BUILDING 35-752

FORMER PCB CONTAMINATED SOIL STOCKPILE FOOTPRINT

12.5 0 12.5 25 M

METRIC SCALE

LEGEND

- (AP-3483) EXISTING MONITORING WELL
- (AP-4329) TRANSFORMER OIL BURNING PIT SOIL BORINGS
- (T1) TRANSFORMER MOUNTING AREA SOIL BORINGS
- (S38) FORMER STOCKPILE SOIL BORINGS
- (P1) PERIPHERAL ROAD SOIL BORINGS

PRELIMINARY

Figure 2-2
Building 35-752 Sample Locations
Human Health Risk Assessment, OUE

Fort Richardson, Alaska

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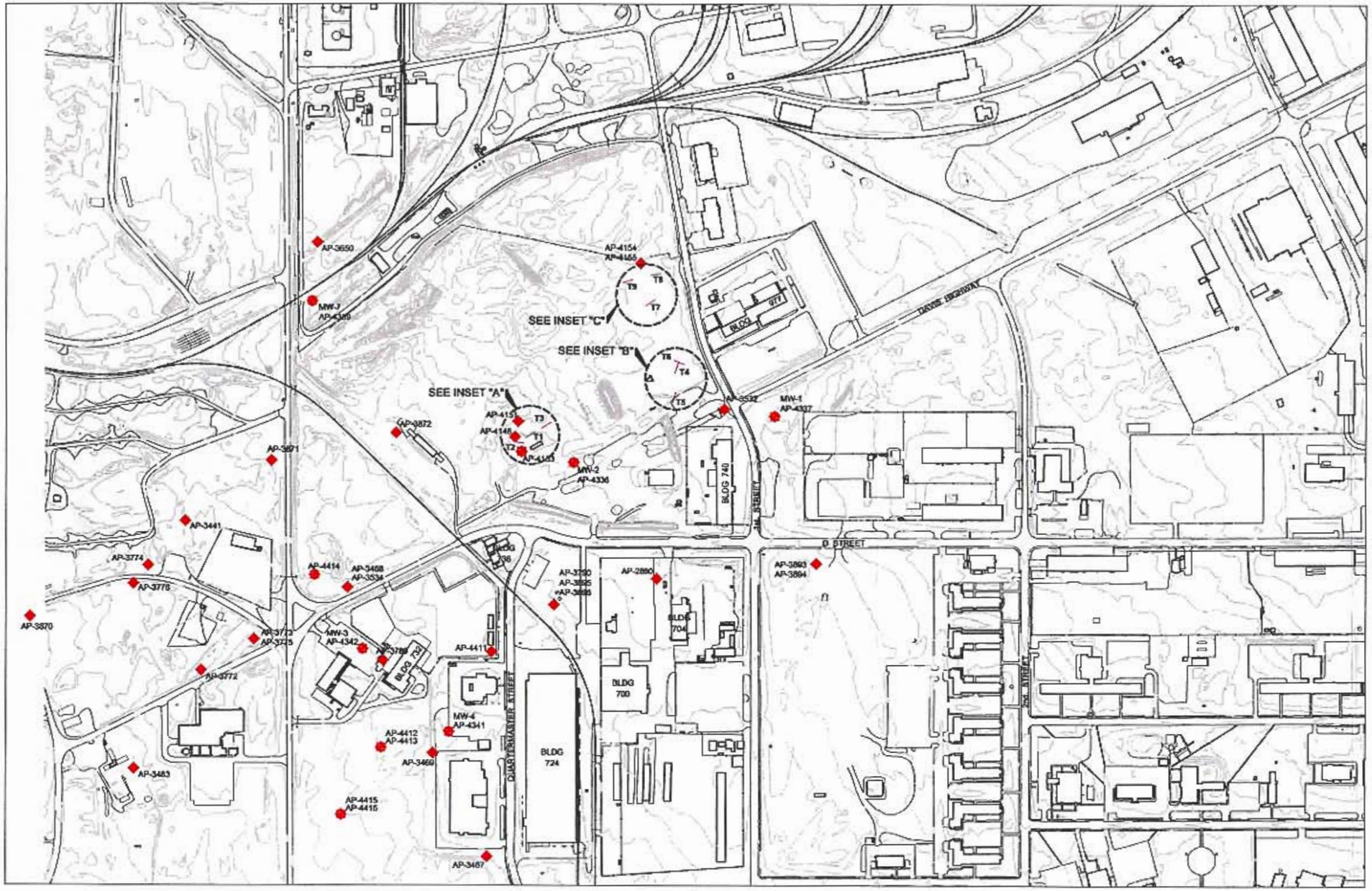

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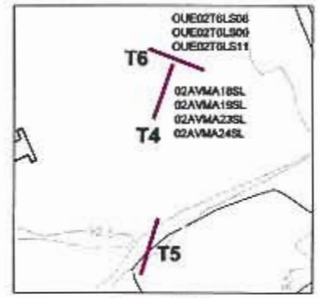

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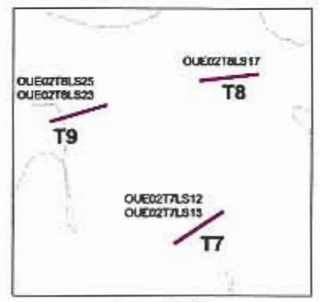

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0 50 100 200 M

METRIC SCALE

LEGEND

(AP-3483) EXISTING MONITORING WELL

(MW-1) NEW MONITORING WELL

(TP-1) TEST PIT TRENCHING

PRELIMINARY

Figure 2-3
Armed Vehicle Maintenance Area (AVMA) Sample Locations
Operable Unit E
Human Health Risk Assessment, OUE
Fort Richardson, Alaska

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2.1.2.2 Armored Vehicle Maintenance Area

Groundwater analytical data include samples from 34 wells that are located within the boundaries of the Armored Vehicle Maintenance Area (AVMA) site (Figure 2-3). To provide the most current representation of potential risk at AVMA, the data used for the groundwater analyses were collected during multiple sampling events from 2002 through 2003. The data from the latest two sampling rounds occurring in 2002/2003 were used for the HHRA to reflect the most current site conditions.

2.2 Criteria for Selection of Chemicals of Potential Concern

In accordance with EPA guidance (EPA, 1989), factors considered in identifying COPCs at the Building 35-752 site and AVMA site are as follows:

- Frequency of detection
- Identification of essential nutrients
- Availability of toxicity factors
- Chemical concentration exceeding naturally occurring levels

COPCs were identified separately for surface soil, subsurface soil, and groundwater from each of the exposure areas described in Sections 2.1.1 and 2.1.2. Evaluation of the HHRA data using these criteria is discussed in the following subsections.

Summary statistics for all chemicals detected at least once in surface soil, subsurface soil, and groundwater samples in each defined exposure area are provided in Appendix A, Tables A-7 through A-28.

2.2.1 Frequency of Detection

Constituents detected in surface soil, subsurface soil, or groundwater at a frequency of 5 percent or greater were carried forward into the next step of the screening process. Any constituents detected at a frequency of less than 5 percent were considered of limited prevalence and eliminated from further consideration as COPCs.

2.2.1.1 Surface and Subsurface Soil

A summary of the constituents detected at a frequency of less than 5 percent is as follows:

- **Building 35-752 Site Soil**. The following constituents were detected at a frequency of less than 5 percent in surface soil (Table A-7):
  - Benzo(a)pyrene
  - Benzyl butyl phthalate
  - Indeno(1,2,3-c,d)pyrene
  - Phenanthrene
  - 1,1,1-trichloroethane
  - 1,2,4-trimethylbenzene
  - 1,3,5-trimethylbenzene
  - Acetone

  - p-cymene
  - Trichloroethylene

- The following constituents were detected at a frequency of less than 5 percent in subsurface soil (Table A-16):

  - beta-BHC
  - Benzo(a)pyrene
  - Benzyl butyl phthalate
  - Indeno(1,2,3-c,d)pyrene
  - Phenanthrene
  - 1,1,1-trichloroethane
  - 1,2,4-Trichlorobenzene
  - 1,2,4-trimethylbenzene
  - 1,3,5-trimethylbenzene
  - 1,4-dichlorobenzene
  - Ethylbenzene
  - p-cymene
  - Tetrachloroethylene
  - trans-1,2-dichloroethylene

- Of the eight defined subareas at the Building 35-752 site, only the Former Drum Accumulation Area had constituents present at a frequency less than 5 percent (Table A-20). The following constituents were detected at a frequency of less than 5 percent in subsurface soil at this subarea:

  - Dieldrin
  - p,p'-DDD
  - p,p'-DDE
  - Indeno(1,2,3-c,d)pyrene
  - 1,2,4-trimethylbenzene
  - Ethylbenzene

- **AVMA Site Soil**. The following constituents were detected at a frequency of less than 5 percent in subsurface soil (Tables A-26 and A-27):

  - Delta-BHC
  - 2,4-dimethylphenol
  - 2-methylphenol (o-cresol)
  - 4-chloro-3-methylphenol
  - Thallium
  - Acenaphthylene
  - Dibenzo(a,h)anthracene
  - di-n-octylphthalate
  - Phenol
  - 1,2,3-trichlorobenzene
  - Carbon disulfide
  - Iodomethane

- n-butylbenzene
- Styrene
- tert-butyl methyl ether

2.2.1.2 Groundwater

Because risks were identified on a well-specific basis and data were not aggregated spatially, the 5 percent frequency criterion does not apply. Data from the latest two sampling rounds occurring in 2002/2003 were used for the HHRA. Any chemical that was detected at least once during this time interval was identified as a COPC.

2.2.2 Identification of Essential Nutrients

Essential nutrients are those chemicals considered essential for human nutrition and generally considered to be of low toxicity. Recommended daily allowances are developed for essential nutrients to estimate safe and adequate daily dietary intakes (Institute of Medicine, 2001; National Academy of Sciences, 1989; EPA, 1989). Because calcium, magnesium, potassium, and sodium are considered to be essential nutrients and generally recognized as being of low toxicity, they were excluded from further consideration as COPCs. Other essential nutrients such as chromium, copper, iron, and zinc were included as COPCs because these can be toxic if levels are very high.

2.2.3 Availability of Toxicity Factors

If a toxicity value was not available from EPA's Integrated Risk Information System (IRIS), (EPA, 2003), Health Effects Assessment Summary Table (HEAST) (EPA, 1997b), or Region IX as a provision reference dose, then a surrogate toxicity factor for a structurally similar chemical was used (Section 4.1). Toxicity values or surrogate toxicity values were available for all COPCs, with the exception of total petroleum hydrocarbons (TPH) (including diesel-range and gasoline-range organic compounds and triphenylene). An appropriate surrogate was not identified for the TPH.

Although TPH was not carried forward into the risk assessment, constituents (such as polycyclic aromatic hydrocarbons, benzene, toluene, ethylbenzene, and xylenes) that represent the greatest risk to human health were analyzed for and included in the quantitative risk assessment. Although the risks associated with TPH are not quantifiable, TPH could contribute to the total site risk if it is in fact toxic and present in toxic amounts.

2.2.4 Summary of Chemicals of Potential Concern

Tables 2-1 and 2-2 provide a summary of the COPCs selected for each of the identified surface and subsurface soil exposure areas and in individual wells in the vicinity of the Building 35-752 and AVMA sites.

2.2.5 Comparison to Naturally-Occurring Background Levels

A primary criterion for identifying a chemical as one of potential concern in soil or groundwater was its presence at a concentration higher than naturally-occurring levels. This criterion only applied to metals. For the purposes of this risk assessment, if the concentration identified for a metal was less than the background concentration, that constituent was not

selected as a COPC. Tables 2-3 through 2-4 summarize the metals background concentrations for soil and groundwater at OUE.

TABLE 2-1

Summary of COPCs Selected for Building 35-752 Exposure Areas

Building 35-752

Ft. Richardson

Chemical Class	Chemical Name	Entire Area			Building 35-752		Burn Pit		Cooling Pond		Former Drum		Former Tank		Periphery Road		Soil Stockpile		Transformer Mounting	
		Surface Soil	Subsurface Soil	Groundwater	Surface Soil	Subsurface Soil	Surface Soil	Subsurface Soil	Surface Soil	Subsurface Soil	Surface Soil	Subsurface Soil	Surface Soil	Subsurface Soil	Surface Soil	Subsurface Soil	Surface Soil	Subsurface Soil	Surface Soil	Subsurface Soil
DIOXI	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN	X	X				X	X							X	X	X	X	X	X
DIOXI	1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	X	X				X	X							X	X	X	X	X	X
DIOXI	1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	X	X				X	X							X	X	X	X	X	X
DIOXI	1,2,3,4,7,8-HEXACHLORODIBENZO-p-DIOXIN	X	X					X							X	X			X	X
DIOXI	1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	X	X				X	X							X	X	X	X	X	X
DIOXI	1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	X	X					X							X	X		X	X	X
DIOXI	1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	X	X				X	X							X	X	X	X	X	X
DIOXI	1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	X	X					X							X	X			X	X
DIOXI	1,2,3,7,8,9-HEXACHLORODIBENZOFURAN		X					X												
DIOXI	1,2,3,7,8-PENTACHLORODIBENZO-p-DIOXIN	X	X					X											X	X
DIOXI	1,2,3,7,8-PENTACHLORODIBENZOFURAN	X	X					X											X	X
DIOXI	2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	X	X					X							X	X		X	X	X
DIOXI	2,3,4,7,8-PENTACHLORODIBENZOFURAN	X	X					X							X	X		X	X	X
DIOXI	2,3,7,8-TETRACHLORODIBENZO-p-DIOXIN	X	X													X			X	X
DIOXI	2,3,7,8-TETRACHLORODIBENZOFURAN	X	X					X							X	X	X	X	X	X
DIOXI	OCTACHLORODIBENZO-p-DIOXIN	X	X				X	X							X	X	X	X	X	X
DIOXI	OCTACHLORODIBENZOFURAN	X	X				X	X							X	X	X	X	X	X
DIOXI	Total TCDD-Mammal	X	X				X	X							X	X	X	X	X	X
METAL	BARIUM	X				X			X	X	X	X		X						
METAL	IRON	X	X								X	X								
METAL	LEAD	X	X			X			X	X	X	X		X						
PEST/	BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	X							X											
PEST/	DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)																			
PEST/	DIELDRIN	X	X		X	X			X	X		X	X	X						
PEST/	p,p'-DDD	X	X			X			X	X		X								
PEST/	p,p'-DDE	X	X		X	X			X	X		X	X	X						
PEST/	p,p'-DDT	X	X			X			X	X	X	X	X	X						
PEST/	PCB-1260 (aroclor 1260)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
SVOC	2-METHYLNAPHTHALENE			X										X						
SVOC	ACENAPHTHENE			X																
SVOC	ACENAPHTHYLENE			X																
SVOC	BENZO(a)PYRENE										X	X								
SVOC	BENZO(b)FLUORANTHENE	X	X						X	X	X	X								
SVOC	BENZO(k)FLUORANTHENE	X	X						X	X	X	X								
SVOC	BENZYL BUTYL PHTHALATE						X	X												
SVOC	bis(2-ETHYLHEXYL) PHTHALATE	X	X	X			X	X	X	X		X	X	X						
SVOC	CHRYSENE	X	X		X	X			X	X	X	X								
SVOC	DI-n-BUTYL PHTHALATE	X	X	X			X	X												
SVOC	DI-n-OCTYLPHTHALATE		X					X				X		X						
SVOC	FLUORANTHENE	X	X		X	X			X	X	X	X								
SVOC	FLUORENE			X																
SVOC	INDENO(1,2,3-c,d)PYRENE										X	X								
SVOC	PHENANTHRENE			X					X	X										
SVOC	PYRENE	X	X		X	X		X	X	X	X	X								
VOC	1,1,1-TRICHLOROETHANE			X	X	X		X												
VOC	1,1-DICHLOROETHANE			X																
VOC	1,2,4-TRICHLOROBENZENE							X												
VOC	1,2,4-TRIMETHYLBENZENE			X		X			X	X		X		X						
VOC	1,2-DICHLOROBENZENE					X														
VOC	1,3,5-TRIMETHYLBENZENE (MESITYLENE)			X					X	X				X						
VOC	1,3-DICHLOROBENZENE					X														
VOC	1,4-DICHLOROBENZENE									X										
VOC	ACETONE		X	X		X		X	X	X				X						
VOC	BENZENE			X																
VOC	CHLOROETHANE			X																
VOC	CHLOROBENZENE					X														
VOC	CHLOROFORM			X																
VOC	CHLOROMETHANE			X																
VOC	cis-1,2-DICHLOROETHYLENE		X	X				X												
VOC	ETHYLBENZENE			X		X						X		X						
VOC	ISOPROPYLBENZENE (CUMENE)			X																
VOC	M-XYLENE (1,3-DIMETHYLBENZENE)					X														
VOC	METHYL ETHYL KETONE (2-BUTANONE)	X	X			X	X	X	X	X										
VOC	METHYLENE CHLORIDE	X	X	X		X	X	X												
VOC	n-BUTYLBENZENE			X																
VOC	n-PROPYLBENZENE			X																
VOC	NAPHTHALENE			X																
VOC	O-XYLENE (1,2-DIMETHYLBENZENE)			X																
VOC	P-CYMENE (p-ISOPROPYLTOLUENE)			X			X	X												
VOC	SEC-BUTYLBENZENE			X																
VOC	STYRENE			X																
VOC	TETRACHLOROETHYLENE(PCE)			X																
VOC	TOLUENE	X	X	X		X		X			X	X								
VOC	trans-1,2-DICHLOROETHENE							X												
VOC	TRICHLOROETHYLENE (TCE)		X	X		X	X	X		X		X		X						
VOC	VINYL ACETATE			X																
VOC	VINYL CHLORIDE			X																
VOC	XYLENES, m & p	X	X	X			X	X												
VOC	XYLENES, o & p					X														
VOC	XYLENES, TOTAL	X	X	X		X					X	X		X						

Notes:

PCB - polychlorinated biphenyl
PEST - pesticide
VOC = volatile organic compound
SVOC = semivolatile organic compound

x = chemical of potential concern for the area and medium specified

TABLE 2-2

Summary of COPCs Selected for AVMA

AVMA

Ft. Richardson

Chemical Class	Chemical Name	AVMA		
		Surface Soil	Subsurface Soil	Groundwater
METAL	ALUMINUM	X	X	X
METAL	ANTIMONY			X
METAL	ARSENIC			X
METAL	BARIUM	X		X
METAL	BERYLLIUM	X		
METAL	CADMIUM			X
METAL	CHROMIUM			X
METAL	COBALT	X		X
METAL	COPPER			X
METAL	IRON	X	X	X
METAL	LEAD	X	X	X
METAL	MANGANESE	X	X	X
METAL	MERCURY			X
METAL	NICKEL	X	X	X
METAL	SELENIUM	X	X	X
METAL	SILVER			X
METAL	VANADIUM	X	X	
METAL	ZINC			X
PEST/	ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	X	X	
PEST/	ALPHA-CHLORDANE	X	X	
PEST/	BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	X	X	X
PEST/	DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	X		
PEST/	DIELDRIN	X	X	
PEST/	ENDOSULFAN SULFATE	X	X	
PEST/	ENDRIN	X	X	
PEST/	ENDRIN ALDEHYDE	X	X	X
PEST/	ENDRIN KETONE	X	X	
PEST/	GAMMA-CHLORDANE		X	
PEST/	HEPTACHLOR	X	X	X
PEST/	HEPTACHLOR EPOXIDE	X	X	
PEST/	METHOXYCHLOR	X	X	
PEST/	p,p'-DDD	X	X	
PEST/	p,p'-DDE	X	X	
PEST/	p,p'-DDT	X	X	
SVOC	2-METHYLNAPHTHALENE	X	X	X
SVOC	ACENAPHTHENE	X	X	X
SVOC	ANTHRACENE	X	X	
SVOC	BENZO(a)ANTHRACENE	X	X	
SVOC	BENZO(a)PYRENE	X	X	X
SVOC	BENZO(b)FLUORANTHENE	X	X	X
SVOC	BENZO(g,h,i)PERYLENE	X	X	X
SVOC	BENZO(k)FLUORANTHENE	X	X	X

TABLE 2-2

Summary of COPCs Selected for AVMA

AVMA

Ft. Richardson

Chemical Class	Chemical Name	AVMA		
		Surface Soil	Subsurface Soil	Groundwater
SVOC	BENZYL ALCOHOL			X
SVOC	bis(2-ETHYLHEXYL) PHTHALATE	X	X	X
SVOC	CHRYSENE	X	X	
SVOC	DI-n-BUTYL PHTHALATE	X	X	X
SVOC	DI-n-OCTYLPHTHALATE	X		X
SVOC	DIBENZ(a,h)ANTHRACENE	X		X
SVOC	DIBENZOFURAN	X	X	
SVOC	DIETHYL PHTHALATE			X
SVOC	FLUORANTHENE	X	X	
SVOC	FLUORENE	X	X	X
SVOC	INDENO(1,2,3-c,d)PYRENE	X	X	X
SVOC	PHENANTHRENE	X	X	X
SVOC	PHENOL			X
SVOC	PYRENE	X	X	
VOC	1,1,1-TRICHLOROETHANE			X
VOC	1,2,4-TRIMETHYLBENZENE	X	X	
VOC	1,2-DICHLOROBENZENE			X
VOC	1,3,5-TRIMETHYLBENZENE (MESITYLENE)	X	X	
VOC	1,3-DICHLOROBENZENE			X
VOC	1,4-DICHLOROBENZENE			X
VOC	ACETONE	X	X	X
VOC	BENZENE		X	X
VOC	BROMODICHLOROMETHANE			X
VOC	CARBON DISULFIDE			X
VOC	CARBON TETRACHLORIDE			X
VOC	CHLOROFORM			X
VOC	CHLOROMETHANE			X
VOC	ETHYLBENZENE	X	X	
VOC	HEXACHLOROBUTADIENE	X	X	
VOC	ISOPROPYLBENZENE (CUMENE)	X	X	
VOC	METHYL ETHYL KETONE (2-BUTANONE)	X	X	
VOC	METHYL ISOBUTYL KETONE			X
VOC	METHYLENE CHLORIDE	X	X	X
VOC	NAPHTHALENE	X	X	X
VOC	O-XYLENE (1,2-DIMETHYLBENZENE)	X	X	
VOC	P-CYMENE (p-ISOPROPYLTOLUENE)	X	X	X
VOC	tert-BUTYL METHYL ETHER			X
VOC	TETRACHLOROETHYLENE(PCE)		X	X
VOC	TOLUENE	X	X	X
VOC	TRICHLOROETHYLENE (TCE)		X	X
VOC	XYLENES, m & p	X	X	
VOC	XYLENES, TOTAL			X

Notes:

PCB - polychlorinated biphenyl

PEST - pesticide

VOC = volatile organic compound

SVOC = semivolatile organic compound

x = chemical of potential concern for the area and medium specified

TABLE 2-3
Metals Background Screening for Soil Samples
Operable Unit E, Fort Richardson, Alaska

	Surface Soils (depths 0 to 1 foot bgs)		Subsurface Soils (depths 0 to ~6 feet bgs)	
Analytes	**Background 95% UTL [a]**	**Background from Postwide [b]**	**Background 95% UTL [g]**	**Background from Postwide [b]**
ALUMINUM		19000		19000
ANTIMONY		34.8		34.8
ARSENIC	9.91		8.84	
BARIUM	104.69		95.19	
BERYLLIUM		0.52		0.52
CADMIUM	2.2 [c]		2.2	
CALCIUM		nutrient[e]		nutrient[e]
CHROMIUM	43.84 [c]		43.84	
COBALT		17		17
COPPER	51.89 [c]		51.89	
IRON		nutrient[e]		nutrient[e]
LEAD	21.74		14.25	
MAGNESIUM		nutrient[e]		nutrient[e]
MANGANESE		770		770
MERCURY	0.6 [c,d]		0.6 [f]	
NICKEL	48.73		50.64	
POTASSIUM		nutrient[e]		nutrient[e]
SELENIUM	2.5 [c,d]		2.5 [f]	
SILVER	4.2 [c,d]		4.2 [f]	
SODIUM		nutrient[e]		nutrient[e]
THALLIUM		0.68		0.68
VANADIUM		64		64
ZINC	80.79 [c]		80.79	

Notes:

Values for this background comparison were taken from the Baseline Ecological Risk Assessment, Operable Unit E, Fort Richardson, Alaska

[a] Background values represented by the 95% Upper Tolerance Limit (UTL) for the "Surface" soil depth (0 to 0.5 foot bgs) are from the *Background Data Analysis Report, Fort Richardson, Alaska* (E&E, 1996).

[b] In the absence of a background value from E&E (1996), values developed for the 1998 Postwide Ecological Risk Assessment at Fort Richardson (ENSR, 1998b) were used.

[c] No value for the "Surface" soil depth was calculated. The only value reported was for the "All" soil depth; therefore, this value was used for screening purposes.

[d] No 95% UTL was calculated; therefore, the maximum reported concentration was used for screening purposes.

[e] Essential macronutrients were not retained for further evaluation.

[f] Non-detected analytes were not retained for further evaluation.

[g] Background values represented by the 95% Upper Tolerance Limit (UTL) for the "All" soil depth are from the *Background Data Analysis Report, Fort Richardson, Alaska* (E&E, 1996).

TABLE 2-4

Metals Background Screening for Groundwater Samples[a]

Operable Unit E, Fort Richardson, Alaska

ChemGroup	Parameter	Units	Number of Detects	Number of Samples	Frequency of Detection	Minimum Nondetect Value	Maximum Nondetect Value	Minimum Detected Value	Maximum Detected Value	Arithmetic Mean	Geometric Mean	Median	Standard Deviation	Coefficient of Variation	Upper 95% Confidence Limit
METALS	ALUMINUM	mg/L	4	5	80%	0.030	0.030	17	59	27	6.7	29	22	0.80	48
METALS	ANTIMONY	mg/L	21	47	45%	0.0010	0.010	0.0010	0.014	0.0035	0.0025	0.0040	0.0025	0.71	0.0041
METALS	ARSENIC	mg/L	31	93	33%	0.010	0.010	0.0010	0.13	0.013	0.0072	0.010	0.022	1.7	0.017
METALS	BARIUM	mg/L	2	67	3%	0.20	0.20	0.056	0.12	0.100	0.099	0.20	0.0059	0.060	0.10
METALS	BERYLLIUM	mg/L	--	32	0%	0.010	0.010	--	--	0.0050	0.0050	0.010	--	--	--
METALS	CADMIUM	mg/L	3	94	3%	0.0010	0.010	0.0010	0.011	0.0039	0.0028	0.010	0.0021	0.54	0.0042
METALS	CALCIUM	mg/L	2	2	100%	--	--	80	120	100	98	100	28	0.28	226
METALS	CHROMIUM	mg/L	30	99	30%	0.0010	0.050	0.0010	0.35	0.030	0.021	0.050	0.044	1.5	0.037
METALS	CHROMIUM VI	mg/L	--	31	0%	0.050	0.050	--	--	0.025	0.025	0.050	--	--	--
METALS	COBALT	mg/L	3	4	75%	0.050	0.050	0.19	0.46	0.22	0.14	0.19	0.18	0.83	0.43
METALS	COPPER	mg/L	52	96	54%	0.020	0.020	0.0010	1.1	0.070	0.021	0.020	0.16	2.3	0.097
METALS	CYANIDE	mg/L	9	9	100%	--	--	0.010	0.020	0.016	0.015	0.020	0.0053	0.34	0.019
METALS	IRON	mg/L	78	97	80%	0.10	0.10	0.10	500	26	1.1	0.55	71	2.7	38
METALS	LEAD	mg/L	35	118	30%	0.0010	0.020	0.0010	0.30	0.022	0.0097	0.020	0.045	2.0	0.029
METALS	MAGNESIUM	mg/L	43	43	100%	--	--	1.8	38	8.1	7.0	7.4	5.7	0.70	9.6
METALS	MANGANESE	mg/L	56	99	57%	5.00E-05	0.050	0.0050	64	2.5	0.12	0.056	9.1	3.7	4.0
METALS	MERCURY	mg/L	50	122	41%	1.00E-04	0.0010	1.00E-04	0.060	0.0014	4.72E-04	0.0010	0.0057	4.2	0.0022
METALS	MOLYBDENUM	mg/L	1	5	20%	0.050	0.10	0.048	0.048	0.040	0.038	0.050	0.013	0.34	0.052
METALS	NICKEL	mg/L	30	51	59%	0.0010	0.050	0.0010	1.0	0.086	0.028	0.050	0.17	2.0	0.13
METALS	SELENIUM	mg/L	--	74	0%	0.0010	0.010	--	--	0.0045	0.0038	0.010	0.0015	0.33	0.0047
METALS	SILVER	mg/L	2	74	3%	0.0010	0.014	0.0010	0.036	0.0049	0.0039	0.010	0.0040	0.81	0.0057
METALS	THALLIUM	mg/L	--	28	0%	0.0010	0.010	--	--	0.0036	0.0024	0.010	0.0021	0.60	0.0042
METALS	TITANIUM	mg/L	--	4	0%	0.060	0.10	--	--	0.045	0.044	0.10	0.010	0.22	0.057
METALS	VANADIUM	mg/L	1	1	100%	--	--	17	17	17	17	17	--	--	--
METALS	ZINC	mg/L	62	97	64%	0.010	0.050	0.010	4.1	0.34	0.086	0.060	0.78	2.3	0.47

[a] Data used for this background summary are from CH2M HILL, 1993. Basewide Background Sampling Report, Volume 1. Environmental Restoration Program, United States Air Force Base, Elmendorf Air Force Base, Alask

SECTION 3

Exposure Assessment

This section includes presentation of the conceptual site model, identification of exposure assumptions for the identified exposure scenarios, calculation of exposure point concentrations, and calculation of chemical intake.

3.1 Conceptual Site Model

This section provides the conceptual site model (CSM) for plausible human pathways of exposure to site-related contaminants at OUE. This CSM was submitted to the U.S. Army Corps of Engineers (COE), EPA, and Alaska Department of Environmental Conservation for review and has obtained final approval (CH2M HILL, 2003).

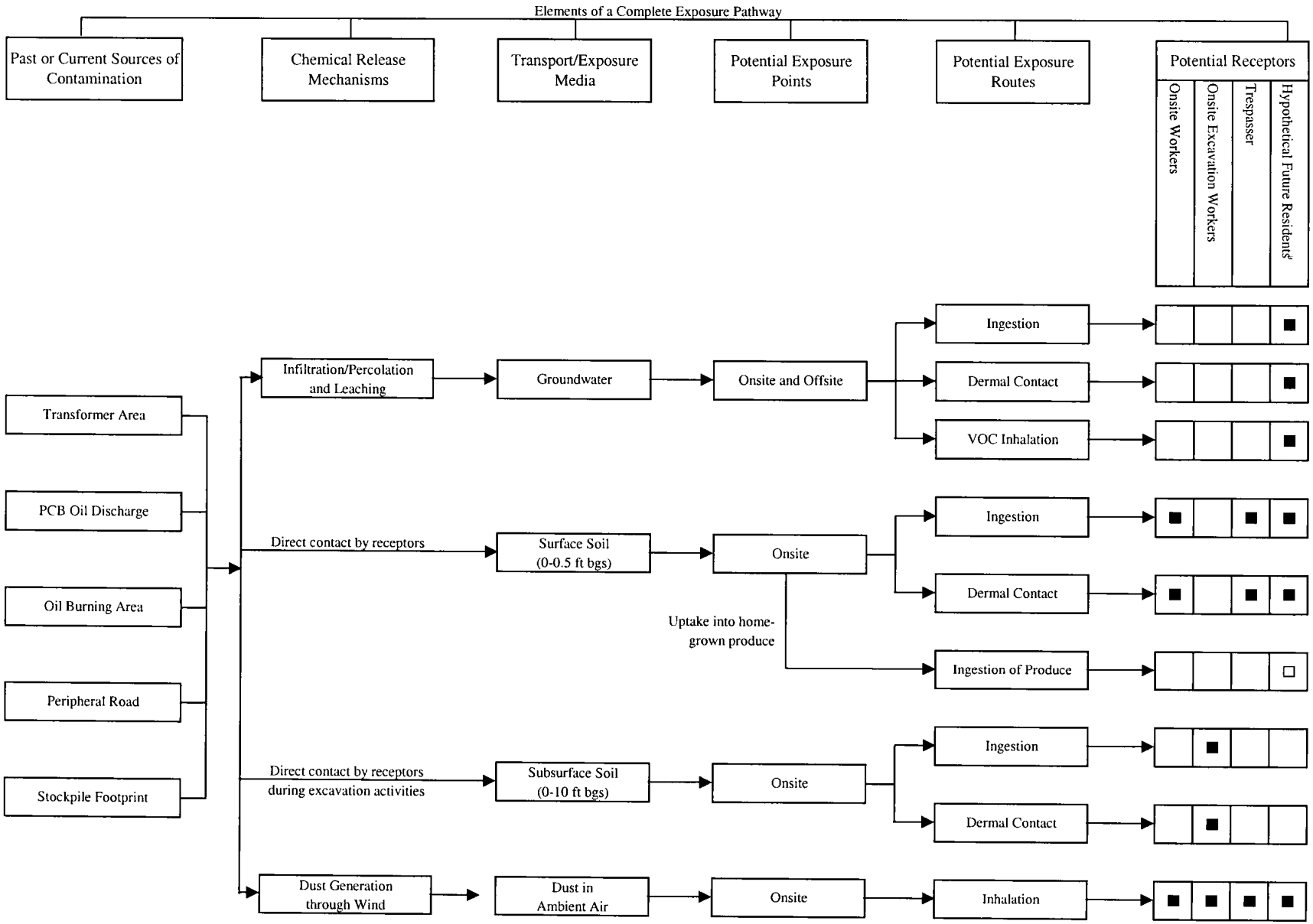
The two locations of interest at OUE are the Building 35-752 site and AVMA (Figures 3-1 and 3-2). This CSM provides a current understanding of the sources of contamination, physical setting, current and future land use, and groundwater beneficial use and identifies potentially complete human exposure pathways for the OUE site. Information reported in the final RI/FS for Operable Unit D (OUD), Fort Richardson (ENSR, 1998), the Management Plan for OUE (ENSR, 2002), and the CSM for OUE (CH2M HILL, 2003) has been incorporated into this CSM to identify potential exposure scenarios. The site description and descriptions of the current and reasonably anticipated future land uses and groundwater beneficial use are provided in Section 3 of the OUE management plan (ENSR, 2002) and in Section 2 of the final RI/FS for OUD (ENSR, 1998).

3.1.1 Characterization of Land Use

Information on current and future land use in the vicinity of Fort Richardson is provided in the RI/FS for OUD (ENSR, 1998). Fort Richardson is bordered by Elmendorf Air Force Base (AFB) to the west, the city of Anchorage to the southwest, the city of Eagle River to the northeast, and Chugach State Park along the remaining southern and eastern boundaries. Anchorage and Eagle River are the two main population centers within 10 miles of Fort Richardson, with a combined population of approximately 225,000. Eagle River serves as a suburban community for Fort Richardson and for Anchorage.

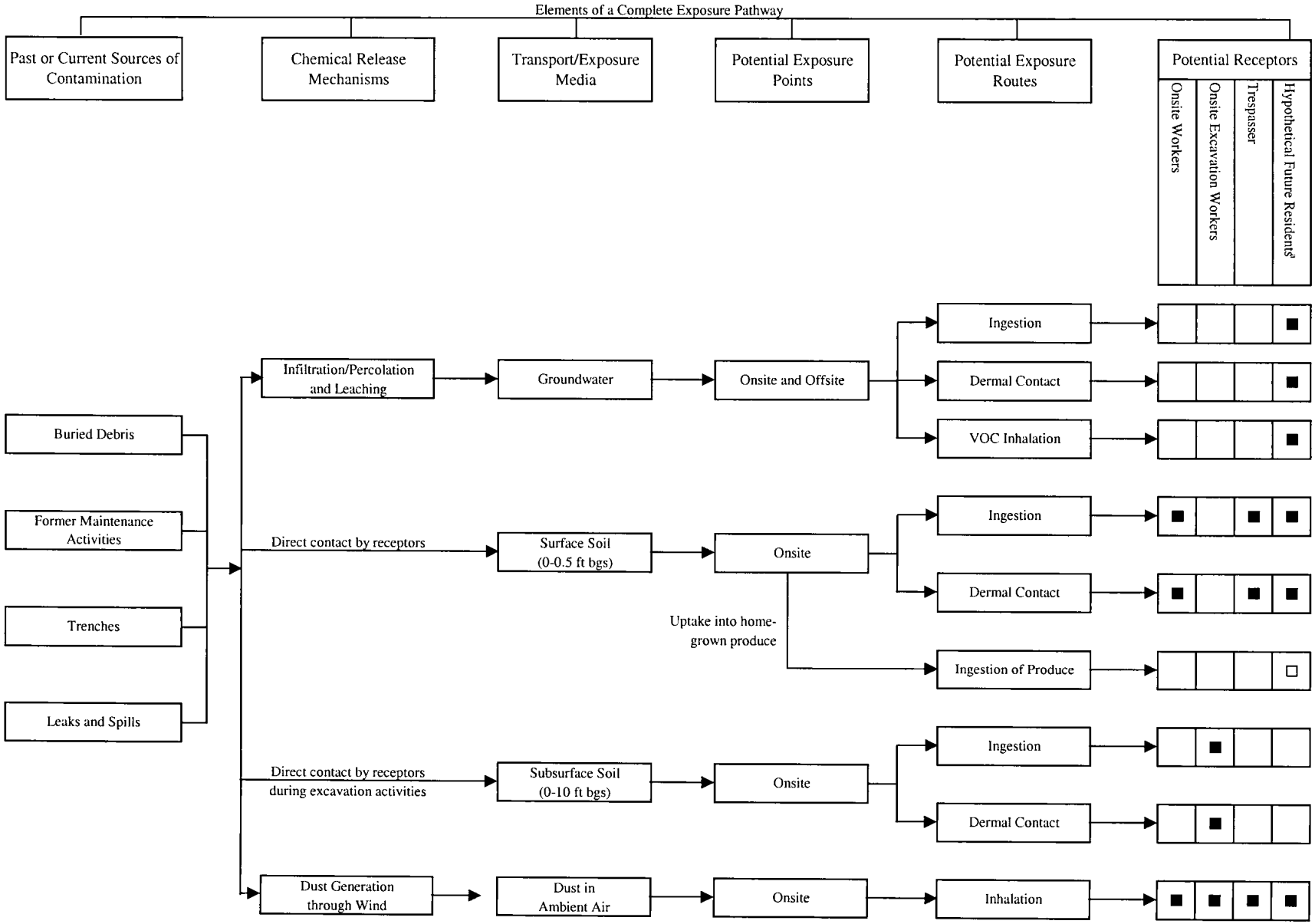
Currently, the land at OUE is used for military/industrial purposes. Future land-use considerations include the potential closure of Fort Richardson with the land being taken over by Elmendorf AFB or deeded to the Municipality of Anchorage. The area has been deemed unsuitable for agricultural use (WCC, 1994).. There is a remote possibility that the area could be used for residential purposes in the future (ENSR, 1998).

Figure 3-1
Conceptual Site Model for Potential Human Exposures
Building 35-752, Fort Richardson, Alaska



a. Residents will not likely exist at Building 35-752 in the future. This hypothetical scenario is added to provide an indication of the potential significance of future land use changes.
■ = Potentially complete pathway
□ = Pathway considered insignificant (to be addressed qualitatively)
Blank = Incomplete pathway

Figure 3-2
Conceptual Site Model for Potential Human Exposures
Armored Vehicle Maintenance Area Fort Richardson, Alaska



a. Residents will not likely exist at the AVMA in the future. This hypothetical scenario is added to provide an indication of the potential significance of future land use changes.
■ = Potentially complete pathway
□ = Pathway considered insignificant (to be addressed qualitatively)

Blank = Incomplete pathway

A detailed discussion of the OUE site description, background, and history is provided in Section 3 of the OUE Management Plan (ENSR, 2002). A brief description of land use for each area of interest is as follows:

- **Building 35-752** is the former generator building for the adjacent high-frequency transmitter site building (35-750) and is currently vacant. This site includes both buildings 35-752 and 35-750 and the surrounding area. Building 35-752 lies in a relatively undeveloped area of Fort Richardson that includes high-frequency transmitter antennas. Warning signs have been installed at the entrance to the area to limit access to facility personnel.
- **The AVMA** is located in the western portion of Fort Richardson at the intersection of Loop Road and the Former Davis Highway, spanning both sites of both roads. As a result of the RI findings, the AVMA has been expanded to include a larger area than previously defined. The AVMA is mostly open fields and woods covering approximately 140 acres.

3.1.2 Groundwater and Surface Water Beneficial Use

A description of the regional and local hydrogeology at the OUE site is provided in Section 3 of the OUE Management Plan (ENSR, 2002) and in Section 2 of the RI/FS for OUD (ENSR, 1998). A brief description of the groundwater beneficial use is provided below.

Surface water from Ship Creek is the main source of drinking water for Fort Richardson. Ship Creek is located upgradient 1/3 mile from Building 35-752 and about 1 mile from AVMA. Ship Creek is a losing stream in that portion of Fort Richardson. A diversion dam, where water is taken from the creek, is located approximately 10.5 miles upstream from the creek's mouth. The Municipality of Anchorage, Elmendorf AFB, and Fort Richardson pump water from a deep aquifer for drinking water when there is low stream flow (ENSR, 2002). Figure 2-1 of the OUE management plan (ENSR, 2002) shows water supply wells that have been drilled on or near Fort Richardson.

Two main groundwater systems exist in the Fort Richardson area, a shallow system and a deep system. Groundwater in the shallow system occurs under unconfined conditions in the Anchorage Plain deposits and in unconfined to semiconfined conditions in the till of the Elmendorf Moraine (ENSR, 1998). Shallow perched groundwater of limited volume and extent exists in localized areas within the Elmendorf Moraine's till deposits. Groundwater in the Anchorage Plain deposits occurs between 10 and 20 feet bgs, and flow tends to be westerly towards Ship Creek. The deep system occurs under artesian (confined) conditions beneath areas where the Bootlegger Cove Formation is present. Groundwater in the deep system has been encountered at a minimum depth of 130 feet in the northern area of Fort Richardson and flows westerly to northwesterly towards Knik Arm (ENSR, 1998). A brief description of groundwater beneficial use is as follows:

- **Building 35-752–**Groundwater in the immediate area of Building 35-752 is at a depth ranging from 5 to 20 feet bgs, and groundwater flow is northwesterly (ENSR, 2002). Currently, there are no wells serving as sources of potable water within the vicinity of Building 35-752.

- **AVMA–**Most groundwater in the vicinity of the AVMA lies approximately 100 feet bgs in an unconfined aquifer. The general flow direction in this aquifer is to the northwest; however, groundwater flow trends more to the west during the summer. A confining layer has been identified in the southern portion of the area at a depth of about 120 feet that separates the unconfined (perched) aquifer with a deeper confined aquifer. A shallow perched aquifer has been encountered in the vicinity of the laundry area, at about 60 to 70 feet bgs. The nearest potable supply well in the area of the AVMA is Supply Well 1, located approximately 1.25 miles south of the site. This well is completed in the confined aquifer at a depth of 162 feet bgs. Another nearby supply well, Otter Lake well, is located approximately 2.5 miles north-northwest of the site.

Shallow groundwater at OUE is unlikely to be used for drinking water purposes. The turbidity levels seen in this zone during the RI sampling were very high (greater than 100 nephelometric turbidity units), making this water nonpotable. However, because of the potential interconnection with the deeper drinking aquifer and to provide a perspective for site decisionmaking, a hypothetical future residential scenario was considered for shallow groundwater.

3.1.3 Conceptual Exposure Model for Human Health

This section describes the potential exposure pathways resulting from site contaminants, based on currently available site information. The conceptual exposure model is formulated according to EPA guidance, with the use of professional judgment and information on contaminant sources, release mechanisms, routes of migration, potential exposure points, potential routes of exposure, and potential receptor groups associated with the site.

An exposure pathway can be described as the physical course that a COPC takes from the point of release to a receptor. Chemical intake or route of exposure is the means by which a COPC enters a receptor. For an exposure pathway to be complete, all of the following components must be present:

- A source
- A mechanism of chemical release and transport
- An environmental transport media
- An exposure point
- An exposure route
- A receptor or exposed population

In the absence of any one of these components, an exposure pathway is considered incomplete and, therefore, creates no risk or hazard. Figures 3-1 and 3-2 present the conceptual exposure model schematics for the Building 35-752 and the AVMA sites. The conceptual site models separate individual pathways according to mechanism of release; therefore, dust generation through wind is listed separately from direct contact pathways associated with surface soil. Dust inhalation exposure was considered for both surface soil (surface receptors) and subsurface soil (excavation workers).

3.1.3.1 Contaminant Sources

Contamination at Building 35-752–primarily polychlorinated biphenyls (PCBs)–is a result of transformer maintenance and operation, PCB oil burning and inadvertent discharge, and the peripheral road and stockpiled soils.

Contamination at the AVMA potentially includes metals, organochlorine pesticides, volatile organic compounds (VOCs), and semivolatile organic compounds. Data collected during the RI indicated that the original AVMA was not a source area for the contaminated groundwater plume in the vicinity of the site. At the current time, a source of groundwater contamination has not been directly identified.

3.1.3.2 Release Mechanisms and Environmental Transport Media

It is possible that both known and unknown contaminant sources may have discharged constituents into surrounding soils, where they may have leached into soil and groundwater or been transported offsite in runoff or groundwater by various release mechanisms (CH2M HILL, 2003).

The primary release mechanisms transporting the COPCs from the source, via environmental media, to potential receptors include the following:

- Infiltration, percolation, and leaching of contaminants from each exposure area to groundwater
- Direct contact with groundwater containing COPCs
- Direct contact with soil containing COPCs (receptor contact with onsite surface or subsurface soil in place of release and transport)
- Generation of dust emanating from surface or subsurface soil to ambient air from wind or during maintenance or construction activities at the site
- Volatilization of chemicals emanating from subsurface soil to ambient air at the site
- Volatilization of chemicals in groundwater from showering or other household activities

Since buildings in this region are generally constructed without basements, an indoor air pathway for VOCs emanating from shallow groundwater is not anticipated. In addition, the low levels of VOCs seen in groundwater were not high enough to represent a significant potential for indoor air exposure.

3.1.3.3 Potentially Complete Human Exposure Pathways and Receptors

Based on current understanding of land and groundwater beneficial use conditions at or near OUE, the most plausible exposure settings that are considered for characterizing human health risks are as follows:

- **Current Site-Specific Worker Scenario**–Under current site conditions, site-specific workers could potentially be exposed to soil during maintenance and military activities at the site. At the current time, the average rotation of job tenure at these sites is 3 years (Prieksat, 2003). Potential routes of exposure to surface soil (0 to 0.5 feet bgs) for the

current site-specific worker include incidental soil ingestion, dermal contact with soil, and inhalation of ambient vapors or dust generated from wind.

- **Future Onsite Industrial Worker Scenario**–Under future site conditions, onsite industrial workers could potentially be exposed to soil during maintenance and military activities at the site. Potential routes of exposure to surface soil (0 to 0.5 feet bgs) for the onsite industrial worker include incidental soil ingestion, dermal contact with soil, and inhalation of ambient vapors or dust generated by wind. Significant exposure to accumulated groundwater in trenches is not expected since water would be pumped from a trench in accordance with standard practices at Fort Richardson. In addition, unauthorized excavation activities are not anticipated to be reasonably likely.

- **Onsite Trespasser Scenario**–Although access to OUE is restricted, a trespasser scenario is evaluated assuming unauthorized access is gained to the areas surrounding Building 35-752 or the AVMA. A trespasser who infrequently gains unauthorized access to OUE could potentially become exposed to surface soils at the site. Potential routes of exposure to surface soil (0 to 0.5 feet bgs) for the onsite trespasser include incidental soil ingestion, dermal contact with soil, and inhalation of ambient vapors or dust generated by wind. (Current residents 0.5 mile from OUE who gain unauthorized access the site would be considered trespassers. These receptors are addressed in the trespasser scenario, not as future hypothetical residents.)

- **Hypothetical Future Residential Scenario**–Given the current understanding of current and reasonably anticipated future land uses at Fort Richardson, it is unlikely that residents will live at OUE in the future. Continued military use of the radio towers near OUE would preclude or limit expansion of post housing into the area; however, due to the proximity of post housing approximately 0.5 mile east of OUE, residents could possibly gain unauthorized access to the site in the future. Therefore, as a conservative estimate for site decisionmaking, a hypothetical future residential scenario is considered in the HHRA. The results from evaluation of this scenario will provide a frame of reference to indicate the potential significance of future land-use changes, if any. For soil, the plausible exposure routes for the hypothetical future onsite resident include incidental soil ingestion, dermal contact with soil, and inhalation of ambient vapors or dust generated by wind. For groundwater, the plausible exposure routes for the hypothetical future onsite resident include ingestion, dermal contact during showering, and inhalation of VOC vapors emanated during showering or other household uses.

- **Onsite Excavation Worker Scenario**–Under future site conditions, onsite excavation workers could potentially be exposed to subsurface soil during infrequent excavation activities at or near the site. These activities could include placement or repair of utilities or other construction activities involving digging. Potential routes of exposure to subsurface soil (0 to 10 feet bgs) for the onsite excavation worker include incidental soil ingestion, dermal contact with soil, and inhalation of ambient vapors or dust generated by wind or during excavation activities.

3.2 Human Exposure Assumptions

The estimation of exposure requires numerous assumptions to describe potential exposure situations. Upperbound exposure assumptions are used to estimate reasonable maximum exposure (RME) conditions to provide a bounding estimate on exposure. Tables 3-1 and 3-2 list the exposure parameters used for generating RME risk estimates for soil and groundwater under both current and future land-use conditions.

Exposure assumptions for the current site-specific worker, onsite industrial worker, onsite trespasser, hypothetical future residential, and onsite excavation worker scenarios were developed using EPA guidance documents (Section 1). The site-specific scenarios evaluated were selected based on the conceptual exposure model (Section 3.1.3) and are consistent with the current and reasonably anticipated future land uses.

3.2.1 Current Site-Specific Worker

Exposure estimates for current site-specific workers are based on the assumption that a 70-kilogram (kg) adult would be exposed to surface soil 150 days per year over a duration of 3 years. An incidental soil ingestion rate of 100 milligrams (mg) per day, an inhalation rate of 20 cubic meters (m^3) per day, and a skin surface area of 3,300 square centimeters (cm^2) (including face, hands, and forearms) were assumed (EPA, 1989; 1991b; 2001).

3.2.2 Future Onsite Industrial Worker

Exposure estimates for onsite workers are based on the assumption that a 70-kg adult would be exposed to surface soil 150 days per year over a duration of 25 years. An incidental soil ingestion rate of 100 mg/day, an inhalation rate of 20 m^3/day, and a skin surface area of 3,300 cm^2 (including face, hands, and forearms) were assumed (EPA, 1989; 1991b; 2001).

3.2.3 Onsite Trespasser

Exposure estimates for onsite trespassers are based on the assumption that a 70-kg adult would contact surface soil for 28 days per year over a duration of 9 years. Estimates assume an incidental soil ingestion rate of 100 mg/day, an inhalation rate of 20 m^3/day, and a skin surface area of 5,700 cm^2 (EPA, 1989; 1997a; 2001).

3.2.4 Hypothetical Onsite Future Resident

Although future residents are not expected to live at the site, hypothetical adult and child residents were assumed (for screening purposes) to potentially be exposed to site-related constituents in soil through incidental ingestion, dermal contact, and inhalation of dust or vapors in ambient air. An incidental ingestion rate of 100 mg/day for adults and 200 mg/day for children, an inhalation rate of 20 m^3/day for adults and 10 m^3/day for children, and a skin surface area of 5,700 cm^2 for adults and 2,800 cm^2 for children were assumed (EPA 1989; 1991a; 1991b; 2001).

Hypothetical adult and child residents were also assumed (for screening purposes) to potentially be exposed to site-related constituents in groundwater through ingestion, dermal contact, and inhalation of volatiles during showering or other household activities. A groundwater ingestion rate of 2 liters per day for adults and 1 liter per day for children,

TABLE 3-1
Summary of Exposure Assumptions for Soil Risk Estimates
Human Health Risk Assessment
OUE, Fort Richardson, Alaska

Parameter	Symbol	Units	Hypothetical Onsite Future Resident	Source	Onsite Worker	Source	Current Site-Specific Worker	Source	Excavation Worker	Source	Onsite Trespasser	Source
Body Weight - adult	BW_a	kg	70	a	70	a	70	a	70	a	70	a
Body Weight - child	BW_c	kg	15	b	--	--	--	--	--	--	--	--
Carcinogenic Averaging Time	ATC	yrs	70	a	70	a	70	a	70	a	70	a
Noncarcinogenic Averaging Time	ATN	yrs	30	b	25	b	3	m	6.6	c	9	d
Exposure Frequency	EF	day/yr	200	e	150	e	150	e	20	f	28	d
Exposure Duration - Adult	ED_a	yrs	24	b	25	b	3	m	6.6	c	9	--
Exposure Duration - Child	ED_c	yrs	6	b	--	--	--	--	--	--	--	d
Incidental Soil Ingestion Rate - Ad	IRS_a	mg/day	100	b	100	b	100	b	330	g	100	b
Incidental Soil Ingestion Rate - Ch	IRS_c	mg/day	200	b	--	--	--	--	--	--	--	--
Age-Adjusted Soil Ingestion Rate	IFSadj	mg-yr/kg-day	114	h	--	--	--	--	--	--	--	--
Skin Surface Area - Adult	SA_a	cm^2/day	5,700	i	3,300	i	3,300	i	3,300	i	5,700	i
Skin Surface Area - Child	SA_c	cm^2/day	2,800	i	--	--	--	--	--	--	--	--
Dermal Absorption Factor	ABSd	unitless	Chemical-specific	j	Chemical-specific	j	Chemical-specific	j	Chemical-specific	j	Chemical-specific	j
Dermal Adherence Factor - Adult	AF_a	mg/cm^2	0.07	i	0.2	i	0.2	i	0.2	i	0.07	i
Dermal Adherence Factor - Child	AF_c	mg/cm^2	0.2	i	--	--	--	--	--	--	--	--
Age-Adjusted Dermal Factor	SFSadj	cm^2-yr/kg-day	360.8	k	--	--	--	--	--	--	--	--
Inhalation rate - Adult	INH_a	m^3/day	20	b	20	b	20	b	20	b	20	b
Inhalation rate - Child	INH_c	m^3/day	10	c	--	--	--	--	--	--	--	--
Age-Adjusted Inhalation Factor	InhFadj	m^3-yr/kg-day	10.86	h	--	--	--	--	--	--	--	--
Particulate Emission Factor	PEF	m^3/kg	1.32E+09	l	1.32E+09	l	1.32E+09	l	1.32E+09	l	1.32E+09	l
Volatilization Factor	VF	m^3/kg	Chemical-specific	l	Chemical-specific	l	Chemical-specific	l	Chemical-specific	l	Chemical-specific	l

Source:

a. Risk Assessment Guidance for Superfund, Volume 1, Human Health Evaluation Manual, Part A, Interim Final. Office of Emergency and Remedial Response. EPA/540/1-89/002 (EPA, 1989).
b. *Human Health Evaluation Manual, Supplemental Guidance: Standard Default Exposure Factor*s. OSWER Directive 9285.6-03. (EPA, 1991).
c. Exposure Factors Handbook Volume I General Factors. EPA/600/P-95/002Fa. August 1997.
d. Based on professional judgement; assumes receptor is exposed 1 day per week, 7 months per year, over a 9 year duration (from OUD risk assessment).
e. Based on professional judgement; assumes ground is frozen and/or snow covered for 5 months per year (from OUD risk assessment).
f. Based on professional judgement; assumes receptor is on site during excavation activities for 5 days per week, four weeks per year, over a 6.6 year duration.
g. Represents an upper bound case for certain outdoor activities with high soil contact (e.g., construction or landscaping)(EPA Region 10, 2001).
h. Risk Assessment Guidance for Superfund, Volume 1, Human Health Evaluation Manual, (Part B, Development of Risk-Based Preliminary Remediation Goals). EPA/540/R-92/003. Publication 9285.7-01B. (EPA 1991).
i. Exhibit 3-5 of Risk Assessment Guidance for Superfund Volume I: Human Health Evaluation Manula (Part E, Supplemental Guidance for Dermal Risk Assessment) Interim. EPA/540/R/99/005. OSWER 9285.7-02EP (EPA, 2001).
j. Exhibit 3-4 of Risk Assessment Guidance for Superfund Volume I: Human Health Evaluation Manula (Part E, Supplemental Guidance for Dermal Risk Assessment) Interim. EPA/540/R/99/005. OSWER 9285.7-02EP (EPA, 2001).
k. Equation 3.21 of Risk Assessment Guidance for Superfund Volume I: Human Health Evaluation Manula (Part E, Supplemental Guidance for Dermal Risk Assessment) Interim. EPA/540/R/99/005. OSWER 9285.7-02EP (EPA, 2001).
l. Soil Screening Guidance: Users Guide. EPA/540/R-96/018. Office of Emergency and Remedial Response, Washington, D.C. PB96-963505.
m. Based on professional judgement; assumes receptor is employed onsite for 3 years.

TABLE 3-2
Summary of Exposure Assumptions for Groundwater Risk Estimates
Human Health Risk Assessment
OUE, Fort Richardson, Alaska

Parameter	Symbol	Units	Hypothetical Future Onsite Resident	Source
Body Weight - adult	BW_a	kg	70	a
Body Weight - child	BW_c	kg	15	b
Carcinogenic Averaging Time	ATC	yrs	70	a
Noncarcinogenic Averaging Time	ATN	yrs	30	b
Exposure Time	ET	hr/day	0.25	c
Exposure Frequency	EF	day/yr	350	b
Exposure Duration - Adult	ED_a	yrs	24	b
Exposure Duration - Child	ED_c	yrs	6	b
Groundwater Ingestion Rate - Adult	IRW_a	L/day	2.0	a
Groundwater Ingestion Rate - Child	IRW_c	L/day	1.0	d
Age-Adjusted Groundwater Ingestion R	IFWadj	L-yr/kg-day	1.09	e
Skin Surface Area - Adult	SA_a	cm^2/day	18,000	f
Skin Surface Area - Child	SA_c	cm^2/day	6,600	f
Dermal permeability coefficient	Kp	cm/hour	Chemical-specific	f
Correction factor	CF	L/cm^3	0.001	--
Age-Adjusted Dermal Factor	SFWadj	cm^2-yr/kg-day	8,811	g
Inhalation rate - Adult	INH_a	m^3/day	20	b
Inhalation rate - Child	INH_c	m^3/day	10	d
Age-Adjusted Inhalation Factor	InhFadj	m^3-yr/kg-day	11	e
Volatilization Factor	VF	L/m^3	0.5	e

Source:

Source:

a. Risk Assessment Guidance for Superfund, Volume 1, Human Health Evaluation Manual, Part A, Interim Final. Office of Emergency and Remedial Response. EPA/540/1-89/002 (EPA, 1989).
b. *Human Health Evaluation Manual, Supplemental Guidance: Standard Default Exposure Factors*. OSWER Directive 9285.6-03. (EPA, 1991).
c. Dermal Exposure Assessment: Principles and Applications. EPA/600/8-91/011B. Office of Health and Environmental Assessment, Washington, D.C. (EPA, 1992).
d. Exposure Factors Handbook Volume I General Factors. EPA/600/P-95/002Fa. August 1997.
e. Risk Assessment Guidance for Superfund, Volume 1, Human Health Evaluation Manual, (Part B, Development of Risk-Based Preliminary Remediation Goals). EPA/540/R-92/003. Publication 9285.7-01B. (EPA 1991).
f. Exhibit 3-2 of Risk Assessment Guidance for Superfund Volume I: Human Health Evaluation Manula (Part E, Supplemental Guidance for Dermal Risk Assessment) Interim. EPA/540/R/99/005. OSWER 9285.7-02EP (EPA, 2001).
g. Equation 3.21 of Risk Assessment Guidance for Superfund Volume I: Human Health Evaluation Manula (Part E, Supplemental Guidance for Dermal Risk Assessment) Interim. EPA/540/R/99/005. OSWER 9285.7-02EP (EPA, 2001).

an inhalation rate of 20 m^3/day for adults and 10 m^3/day for children, and a skin surface area of 18,000 cm^2 for adults and 6,600 cm^2 for children were assumed (EPA 1989; 1991a; 1991b; 1992; 2001).

The soil exposure frequency is assumed to be 200 days per year, and exposure to groundwater assumes an exposure frequency of 350 days per year. Both are applied over the assumed 30-year exposure duration (6 years for a child plus 24 years for an adult) for the hypothetical onsite residential exposure scenarios.

3.2.5 Onsite Excavation Worker

Exposure estimates for onsite excavation workers are based on the assumption that a 70-kg adult would contact subsurface soil for 20 days per year over a duration of 6.6 years (EPA, 1997a). Estimates assume an incidental soil ingestion rate of 330 mg/day, an inhalation rate of 20 m^3/day, and a skin surface area of 3,300 cm^2 (including face, hands, and forearms) (EPA, 1989; 1997a; 2001).

3.3 Calculation of Exposure Point Concentrations

Exposure point concentrations (EPCs) are estimated chemical concentrations that a receptor may contact and are specific to each exposure medium. For the incidental ingestion and dermal routes of exposure, EPCs are represented by concentrations directly measured in soil and groundwater. For the inhalation route, modeling estimated constituent concentrations in air from particulate or vapor emissions from soil, or from groundwater during a showering scenario.

The following subsections describe the methods used to estimate EPCs for soil and groundwater.

3.3.1 Estimation of Soil Exposure Point Concentrations

The EPCs for soil at OUE were calculated using the best statistical estimate of an upper bound on the average exposure concentrations, in accordance with EPA guidance for statistical analysis of monitoring data (EPA, 1989 and 1992). The 95 percent upper confidence limit (UCL) on the mean is considered by this guidance as a conservative upperbound estimate that is not likely to underestimate the mean concentration. The maximum detected concentration was used in place of the 95 percent UCL when the calculated 95 percent UCL was greater than the maximum detected value.

Appendix A provides a summary of EPCs for onsite surface soil and subsurface soil (Tables A-7 through A-24 for Building 35-752 and A-26 and A-27 for AVMA). Appendix B describes the procedure to identify the statistical distribution type of each data set (normal or lognormal) and subsequent calculation of the EPC.

3.3.2 Estimation of Well-Specific Groundwater Exposure Point Concentrations

A well-specific methodology was used to determine present well-specific risks at the site. The purpose of using a well-specific methodology is to identify which of the COPCs present in individual well samples exist at concentrations that could feasibly pose risk at relevant exposure points (where drinking wells could reasonably be placed in the future). EPCs for

individual monitoring wells were estimated using the average concentration of the latest two sampling rounds occurring in 2002 and/or 2003. Any chemical that was detected at least once during this time interval was identified as a COPC. (If only detected once during the last two rounds, a detected value was used as the EPC.) EPCs derived using this method estimate the most current exposure conditions.

Because only one groundwater sampling round was conducted in 2002 for certain monitoring wells, these results were used to evaluate risk for these wells. Any chemical that was detected in these individual groundwater samples at least once was identified as a COPC and carried forward into the HHRA. Although less representative of longer-term temporal conditions (seasonal fluctuations), EPCs derived for these wells are representative of the most current exposure conditions. Tables A-25 and A-28 provide summary statistics for all Building 35-752 and AVMA groundwater, respectively.

3.4 Calculation of Chemical Intake

Chemical intake is estimated, where possible, from direct chemical measurements in soil or groundwater collected from OUE. For each area of interest, exposure point concentrations for COPCs in soil and groundwater are calculated by using the best statistical estimate of an upper bound on the average exposure concentrations, in accordance with EPA guidance (EPA, 1992 and 2002a). The 95 percent upper confidence limit on the mean concentration is considered by these guidance documents as a conservative upperbound estimate that is not likely to underestimate, and most likely overestimates, the mean concentration. The procedure for identifying the statistical distribution type of each area of interest (normal, lognormal, or nonparametric) was conducted in accordance with *Calculating Upper Confidence Limits for Exposure Point Concentrations at Hazardous Waste Sites* (EPA, 2002a) (Appendix B, Figure B-1). Summary statistics for each medium were calculated for each area of interest.

3.4.1 Direct Contact Exposure Equations

This section describes the equations that were used to calculate direct contact exposures to contaminants in groundwater and soil. Tables 3-1 and 3-2 present the human exposure assumptions for calculating intake for the soil and groundwater pathways evaluated in the HHRA.

3.4.2 Intake Equations for Incidental Ingestion of Soil

The following equation was used to calculate the intake (expressed as milligrams per kilogram per day [mg/kg-day]) associated with the incidental ingestion of contaminants in soil under the current site-specific worker, onsite industrial worker, onsite excavation worker, and onsite trespasser exposure scenarios:

$$Intake = \frac{C_s \times IRS_a \times 10^{-6}\, kg/mg \times EF \times ED_a}{BW_a \times AT \times 365\, days/year}$$

The following equation was used to calculate the intake associated with the incidental ingestion of carcinogenic and noncarcinogenic contaminants in soil under the hypothetical residential exposure scenario:

$$Intake = \frac{C_s \times IFS_{adj} \times EF \times 10^{-6}\, kg/mg}{AT}$$

where:

$$IFS_{adj} = \frac{ED_c \times IRS_c}{BW_c} + \frac{ED_a \times IRS_a}{BW_a}$$

where:

C_s = chemical concentration in soil (mg/kg)
IFS_{adj} = age-adjusted soil ingestion factor [(mg-year)/(kg-day)]
IRS_a = adult soil ingestion rate (mg/day)
IRS_c = child soil ingestion rate (mg/day)
EF = exposure frequency (days/year)
ED_a = adult exposure duration (years)
ED_c = child exposure duration (years)
BW_a = adult body weight (kg)
BW_c = child body weight (kg)
AT = averaging time (days)

Table 3-1 presents the exposure assumptions for estimating chemical intake from the ingestion of contaminants in soil.

3.4.3 Intake Equations for Ingestion of Groundwater

The following equation was used to calculate the intake of carcinogenic and noncarcinogenic constituents associated with the ingestion of groundwater under the hypothetical residential exposure scenario:

$$Intake = \frac{C_w \times IFW_{adj} \times EF}{AT}$$

where:

$$IFW_{adj} = \frac{ED_c \times IRW_c}{BW_c} + \frac{ED_a \times IRW_a}{BW_a}$$

where:

C_W = chemical concentration in groundwater milligrams per liter (mg/L)
IFW_{adj} = age-adjusted water ingestion factor [(liter [L]-year)/(kg-day)]
IRW_a = adult groundwater ingestion rate (L/day)
IRW_c = child groundwater ingestion rate (L/day)
EF = exposure frequency (days/year)
ED_a = adult exposure duration (years)

ED_c = child exposure duration (years)
BW_a = adult body weight (kg)
BW_c = child body weight (kg)
AT = averaging time (days)

Table 3-2 presents the exposure assumptions for estimating chemical intake from the ingestion of groundwater.

3.4.4 Intake Equations for Dermal Contact with Soil

The following equation was used to calculate the intake from dermal contact with carcinogenic and noncarcinogenic contaminants in soil under the current site-specific worker, onsite industrial worker, onsite excavation worker, and onsite trespasser exposure scenarios:

$$Intake = \frac{C_S \times ABS \times SA_a \times AF_a \times EF \times ED_a \times 10^{-6}\, kg/mg}{BW_a \times AT}$$

The following equation was used to calculate the intake from dermal contact with carcinogenic and noncarcinogenic contaminants in soil under the hypothetical residential exposure scenario:

$$Intake = \frac{C_S \times SFS_{adj} \times ABS \times EF \times 10^{-6}\, kg/mg}{AT}$$

where:

$$SFS_{adj} = \frac{ED_c \times AF_c \times SA_c}{BW_c} + \frac{ED_a \times AF_a \times SA_a}{BW_a}$$

where:

C_s = chemical concentration in soil (mg/kg)
ABS = dermal absorption factor (unitless)
SFS_{adj} = age-adjusted dermal contact factor [(mg-year)/(kg-day)]
SA_a = adult exposed skin surface area (cm^2)
SA_c = child exposed skin surface area (cm^2)
AF_a = adult soil-to-skin adherence factor (mg/cm^2)
AF_c = child soil-to-skin adherence factor (mg/cm^2)
EF = exposure frequency (days/year)
ED_a = adult exposure duration (years)
ED_c = child exposure duration (years)
BW_a = adult body weight (kg)
BW_c = child body weight (kg)
AT = averaging time (days)

Table 3-1 presents the exposure assumptions for estimating exposure from dermal contact with soil. Dermal absorption factor values were obtained from the dermal assessment guidance (EPA, 2001).

3.4.5 Intake Equations for Dermal Contact with Groundwater

The following equation was used to calculate the intake associated with dermal contact with carcinogenic and noncarcinogenic constituents in groundwater under the hypothetical residential exposure scenario:

$$Intake = \frac{C_w \times SFW_{adj} \times Kp \times EF \times ET \times CF}{AT}$$

where:

$$SFW_{adj} = \frac{ED_c \times SA_c}{BW_c} + \frac{ED_a \times SA_a}{BW_a}$$

where:

C_W = chemical concentration in groundwater (mg/L)
SFW_{adj} = age-adjusted water dermal contact factor [(cm^2-year)/kg]
Kp = dermal permeability coefficient (centimeters/hour)
EF = exposure frequency (days/year)
ET = exposure time (hour)
CF = Conversion Factor (0.001 L/cubic centimeter)
ED_a = adult exposure duration (years)
ED_c = child exposure duration (years)
SA_a = adult exposed skin surface area (cm^2)
SA_c = child exposed skin surface area (cm^2)
BW_a = adult body weight (kg)
BW_c = child body weight (kg)
AT = averaging time (days)

Table 3-2 presents the exposure assumptions that were used to estimate exposure from dermal contact with groundwater. Chemical-specific dermal permeability coefficients (Kp) were obtained from the dermal assessment guidance (EPA, 2001).

3.4.6 Intake Equation for Inhalation of Dust or Vapors in Soil

The following equation was used to calculate the intake of carcinogenic and noncarcinogenic contaminants associated with inhalation of vapor or dust emissions from soil under current site-specific worker, the onsite industrial worker, onsite excavation worker, and onsite trespasser exposure scenarios:

$$Intake = \frac{C_s \times INH_a \times \left(\frac{1}{PEF} + \frac{1}{VF}\right) \times EF \times ED_a}{BW_a \times AT}$$

The following equation was used to calculate the intake of carcinogenic and noncarcinogenic contaminants associated with inhalation of vapor or dust emissions from soil under the hypothetical residential exposure scenario:

$$Intake = \frac{C_s \times INHF_{adj} \times \left(\frac{1}{PEF} + \frac{1}{VF} \right) \times EF}{AT}$$

where:

$$INHF_{adj} = \frac{ED_c \times INH_c}{BW_c} + \frac{ED_a \times INH_a}{BW_a}$$

where:

C_s = chemical concentration in soil (mg/kg)
$INHF_{adj}$ = age-adjusted inhalation factor (m^3-year)/(kg-day)
INH_a = adult inhalation rate (m^3/day)
INH_c = child inhalation rate (m^3/day)
EF = exposure frequency (days/year)
ED_a = adult exposure duration (years)
ED_c = child exposure duration (years)
BW_a = adult body weight (kg)
BW_c = child body weight (kg)
PEF = particulate emission factor (m^3/kg)
VF = volatilization factor (m^3/kg)
AT = averaging time (days)

The volatilization factors (VFs) for VOCs identified as COPCs in soil were calculated using the Jury Model presented in the soil screening guidance (EPA, 1996). Table 3-1 presents the exposure assumptions used to estimate exposure from inhalation of dust and vapors in ambient air.

3.4.7 Intake Equations for Inhalation of Vapors in Groundwater

The following equation was used to calculate the intake of carcinogenic and noncarcinogenic contaminants associated with inhalation of vapors from showering or other household activities under the hypothetical residential exposure scenario:

$$Intake = \frac{C_w \times INHF_{adj} \times VF \times EF}{AT}$$

where:

$$INHF_{adj} = \frac{ED_c \times INH_c}{BW_c} + \frac{ED_a \times INH_a}{BW_a}$$

where:

C_w = chemical concentration in water (mg/L)
$INHF_{adj}$ = age-adjusted inhalation factor [(m^3-year)/L-day)]
INH_a = adult inhalation rate (m^3/day)
INH_c = child inhalation rate (m^3/day)
EF = exposure frequency (days/year)

ED_a = adult exposure duration (years)
ED_c = child exposure duration (years)
BW_a = adult body weight (kg)
BW_c = child body weight (kg)
VF = volatilization factor (L/m^3)
AT = averaging time (days)

Table 3-2 presents the exposure assumptions that were used to estimate exposure from inhalation of volatile constituents.

Volatile constituents considered for the inhalation pathway are operationally defined as those COPCs with a Henry's Law constant greater than 10^{-5} atm-m^3/mole and a molecular weight less than 200 grams per mole (EPA, 1991b).

SECTION 4

Toxicity Assessment

4.1 Toxicity Assessment

The toxicity assessment evaluates the relationship between the magnitude of exposure to a chemical at OUE and the likelihood of adverse health effects to potentially exposed human populations. This assessment will provide, where possible, a numerical estimate of the increased likelihood of adverse effects associated with chemical exposure (EPA, 1989).

Toxicity values (cancer slope factors and reference doses [RfDs]) used in the risk assessment are obtained from the following sources:

- The 2003 IRIS, an electronic database available through the EPA's National Center for Environmental Assessment in Cincinnati, Ohio. The IRIS database, prepared and maintained by the EPA, contains health risk and EPA regulatory information on specific chemicals (EPA, 2003).
- The HEAST, provided by the EPA Office of Solid Waste and Emergency Response, is a compilation of toxicity values published in health effects documents issued by the EPA and is intended for use in Superfund and Resource Conservation and Recovery Act programs (EPA, 1997b).
- The EPA Region IX Preliminary Remediation Goals Table (EPA, 2002b).

The primary source of toxicity values is the IRIS database. If a toxicity value is not available from IRIS, then the latest available values from HEAST were used. When a toxicity value is not available from either IRIS or HEAST, provisional toxicity values were obtained from the EPA Region IX Preliminary Remediation Goals toxicity factor tables (EPA, 2002b). In some cases, surrogate toxicity values might be used in this risk assessment to evaluate chemicals without toxicity values. Surrogate compounds are based upon chemical structure and similar toxicological properties or metabolism.

The surrogate toxicity values used for this HHRA are as follows(s):

- Alpha-BHC was used as a surrogate for delta-BHC.
- 1,3-dichloropropene as used as a surrogate for 1,1-dichloropropene, cis-1,3-dichloropropene, and trans-1,3-dichloropropene.
- 1,2,4-trichlorobenzene was used as a surrogate for 1,2,3-trichlorobenzene.
- 1,2-dichloropropane was used as a surrogate for 1,3-dichloropropane.
- 2-chlorotoluene was used as a surrogate for 4-chlorotoluene.
- Cumene (isopropylbenzene) was used as a surrogate for p-cymene (p-isopropyltoluene).
- Endrin was used as a surrogate for endrin aldehyde and endrin ketone.

- Acenaphthene was used as a surrogate for acenaphthylene.
- Anthracene was used as a surrogate for phenanthrene.
- 3-methylphenol was used as a surrogate for 4-chloro-3-methylphenol.
- Pyrene was used as a surrogate for benzo(g,h,i)perylene.
- Endosulfan was used as a surrogate for endosulfan sulfate.

Toxicity values or surrogate toxicity values were available for all COPCs, with the exception of TPH (including diesel-range and gasoline-range organic compounds and triphenylene). An appropriate surrogate was not identified for TPH.

Although TPH was not carried forward into the risk assessment, constituents (such as polycyclic aromatic hydrocarbons, benzene, toluene, ethylbenzene, and xylenes) that represent the greatest risk to human health were analyzed for and included in the quantitative risk assessment. Although the risks associated with TPH are not quantifiable, TPH could contribute to the total site risk if it is in fact toxic and present in toxic amounts.

The uncertainty assessment (Section 6) presents the potential impact on the risk assessment from use of surrogate toxicity factors.

4.1.1 Hazard Characterization

Hazard characterization identifies the types of toxic effects a chemical can exert. For the toxicity assessment, chemicals can be divided into two broad groups on the basis of their effects on human health: noncarcinogens and carcinogens. This classification has been selected because health risks are calculated quite differently for carcinogenic and noncarcinogenic effects, and separate toxicity values have been developed for them.

Carcinogens are those chemicals suspected of causing cancer following exposure; noncarcinogenic compounds are associated with a wide variety of systemic effects, such as liver toxicity or developmental effects. Some chemicals (such as arsenic) are capable of eliciting both carcinogenic and noncarcinogenic responses; therefore, these carcinogens are also evaluated for systemic (noncarcinogenic) effects.

For cancer effects, EPA has developed a weight-of-evidence classification system, which considers the available data for a chemical in order to evaluate the likelihood that the chemical is a potential human carcinogen. Information considered in developing the classification includes human studies of the association between cancer incidence and exposure, as well as long-term animal studies under controlled laboratory conditions. Other supporting evidence considered includes short-term tests for genotoxicity, metabolic and pharmacokinetics properties, toxicological effects other than cancer, structure-activity relationships, and physical and chemical properties of the chemical.

The evidence is characterized separately for studies in humans and studies in laboratory animals as sufficient, limited, inadequate, no data, or evidence of noncarcinogenicity. EPA recommends that cancer risk estimates should always be accompanied by a weight-of-evidence classification to indicate the strength of evidence that a chemical is a human carcinogen (EPA, 1996). Table 4-1 presents the EPA weight-of-evidence classifications.

TABLE 4-1
U.S. Environmental Protection Agency Weight-of-Evidence Classification System for Carcinogenicity

Group	Description
A	Human carcinogen, based on evidence from epidemiological studies
B1 or B2	Probable human carcinogen B1 indicates that limited human data are available. B2 indicates sufficient evidence in animals and inadequate or no evidence in humans.
C	Possible human carcinogen, based on limited evidence in animals
D	Not classifiable as to human carcinogenicity
E	Evidence of noncarcinogenicity for humans

Source: U.S. Environmental Protection Agency, April 1996, *Proposed Guidelines for Carcinogen Risk Assessment*, EPA/600/P-92/003C

For noncancer effects, toxicity values are derived on the basis of the critical toxic endpoint (the most sensitive adverse effect following exposure). Table 4-2 lists the COPCs detected at the OUE site that have been identified as having documented systemic effects. Of the chemicals identified in Table 4-2, 74 have been classified by EPA as known (Group A), probable (Groups B1 and B2), or possible (Group C) human carcinogens.

4.1.2 Dose-Response Evaluation

The magnitude of toxicity of a chemical depends on the dose to a receptor. Dose refers to exposure to a chemical concentration over a specified period of time. Human exposures are generally classified as acute (typically less than 2 weeks), subchronic (about 2 weeks to 7 years), or chronic (7 years to a lifetime). This HHRA specifically addresses chronic exposure. Acute exposures and risks are evaluated only when chronic exposure estimates pose a high risk. A dose-response curve describes the relationship between the degree of exposure (the dose) and the incidence of the adverse effects (the response) in the exposed population. EPA uses this dose-response information to establish toxicity values for particular chemicals, as described in the following sections.

4.1.3 Reference Doses for Noncancer Effects

The toxicity value describing the dose-response relationship for noncancer effects is the RfD value. For noncarcinogenic effects, the body's protective mechanisms must be overcome before an adverse effect is manifested. If exposure is high enough and these protective mechanisms (or thresholds) are exceeded, adverse health effects can occur. EPA attempts to identify the upper bound of this tolerance range in the development of noncancer toxicity values. EPA uses the apparent toxic threshold value, in conjunction with uncertainty factors based on the strength of the toxicological evidence, to derive an RfD. EPA defines an RfD as follows:

> In general, the RfD is an estimate (with uncertainty spanning perhaps an order of magnitude) of a daily exposure to the human population (including sensitive subgroups) that is likely to be without an appreciable risk of deleterious effects during a lifetime. The RfD is generally expressed in units of milligram per kilogram of body weight each day (mg/kg-day). (EPA, 1989)

This HHRA uses available chronic RfDs for the oral and inhalation exposure routes. Because EPA has derived no toxicity values specific to skin contact, dermal slope factors and RfDs were derived from oral toxicity factors in accordance with the EPA guidance. Table 4-2 summarizes the RfDs for the COPCs identified at the OUE site.

4.1.4 Slope Factors for Cancer Effects

The dose-response relationship for cancer effects is expressed as a cancer slope factor that converts estimated intake directly to excess lifetime cancer risk (ELCR). Slope factors are expressed in units of risk per level of exposure (or intake). The data used for estimating the dose-response relationship are taken from lifetime animal studies or human occupational or epidemiological studies in which excess cancer risk has been associated with exposure to the chemical. However, because risk at low intake levels cannot be directly measured in animal or human epidemiological studies, a number of mathematical models and procedures have been developed to extrapolate from the high doses used in the studies to the low doses typically associated with environmental exposures. The model choice leads to uncertainty. EPA assumes linearity at low doses and uses the linearized multistage procedure when uncertainty exists about the mechanism of action of a carcinogen and when information suggesting nonlinearity is absent.

> If a cancer response occurs at the dose levels used in the study, then there is assumed probability that a response will occur at all lower exposure levels. (A dose-response relationship with no threshold is assumed.) Moreover, the dose-response slope chosen is usually the UCL on the dose-response curve observed in the laboratory studies. As a result, uncertainty and conservatism are built into the EPA risk extrapolation approach. EPA has stated that cancer risks estimated by this method produce estimates that "provide a rough but plausible upper limit of risk" (EPA, 1986). Table 4-2 summarizes the cancer slope factors used in this assessment.

TABLE 4-2

Summary of Toxicity Values Used in the Human Health Risk Assessment

Ft. Richardson

Chemical Class	Chemical Name	WOE	SFo (kg-day/mg)	Source	RfDo (mg/kg-day)	Source	SFi (kg-day/mg)	Source	RfDi (mg/kg-day)	Source	ABSd[1]	ABSgi[2]	VF[3]	Kp (cm/hour)	Source
DIOXIN	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN	B2	1500	w	--	--	1500	w	--	--	0.03	1	--	--	--
DIOXIN	1,2,3,4,7,8-HEXACHLORODIBENZO-p-DIOXIN	B2	15000	w	--	--	15000	w	--	--	0.03	1	--	--	--
DIOXIN	1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	B2	15000	w	--	--	15000	w	--	--	0.03	1	--	--	--
DIOXIN	1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	B2	15000	w	--	--	15000	w	--	--	0.03	1	--	--	--
DIOXIN	1,2,3,7,8-PENTACHLORODIBENZO-p-DIOXIN	B2	150000	w	--	--	150000	w	--	--	0.03	1	--	--	--
DIOXIN	2,3,7,8-TETRACHLORODIBENZO-p-DIOXIN	B2	150000	h	--	--	150000	h	--	--	0.03	1	--	--	--
DIOXIN	OCTACHLORODIBENZO-p-DIOXIN	B2	15	w	--	--	15	w	--	--	0.03	1	--	--	--
DIOXIN	Total TCDD-Mammal	--	150000	h	--	--	150000	h	--	--	0.03	1	--	--	--
FURAN	1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	B2	1500	w	--	--	1500	w	--	--	0.03	1	--	--	--
FURAN	1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	B2	1500	w	--	--	1500	w	--	--	0.03	1	--	--	--
FURAN	1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	B2	15000	w	--	--	15000	w	--	--	0.03	1	--	--	--
FURAN	1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	B2	15000	w	--	--	15000	w	--	--	0.03	1	--	--	--
FURAN	1,2,3,7,8,9-HEXACHLORODIBENZOFURAN	B2	15000	w	--	--	15000	w	--	--	0.03	1	--	--	--
FURAN	1,2,3,7,8-PENTACHLORODIBENZOFURAN	B2	7500	w	--	--	7500	w	--	--	0.03	1	--	--	--
FURAN	2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	B2	15000	w	--	--	15000	w	--	--	0.03	1	--	--	--
FURAN	2,3,4,7,8-PENTACHLORODIBENZOFURAN	B2	75000	w	--	--	75000	w	--	--	0.03	1	--	--	--
FURAN	2,3,7,8-TETRACHLORODIBENZOFURAN	B2	15000	w	--	--	15000	w	--	--	0.03	1	--	--	--
FURAN	OCTACHLORODIBENZOFURAN	B2	15	w	--	--	15	--	--	--	0.03	1	--	--	--
METAL	ALUMINUM	--	--	--	1	n	--	--	0.0014	n	0	1	--	0.001	2
METAL	ANTIMONY	--	--	--	0.0004	i	--	--	--	--	0	0.015	--	0.001	2
METAL	ARSENIC	A	1.5	i	0.0003	i	15.05	i	--	--	0.03	1	--	0.001	2
METAL	BARIUM	D	--	--	0.07	i	--	--	0.00014	h	0	0.07	--	0.001	2
METAL	BERYLLIUM	B1	--	--	0.002	i	8.4	i	0.0000057	i	0	0.007	--	0.001	2
METAL	CADMIUM	B1	--	--	0.0005	i	6.3	i	--	--	0.001	0.025	--	0.001	2
METAL	CHROMIUM	A	--	--	0.003	i	294	i	0.0000022	i	0	0.025	--	0.002	2
METAL	COBALT	--	--	--	0.02	n	9.8	n	0.0000057	n	0	1	--	0.001	2
METAL	COPPER	D	--	--	0.04	h	--	--	--	--	0	1	--	0.001	2
METAL	IRON	--	--	--	0.3	n	--	--	--	--	0	1	--	0.001	2
METAL	LEAD	--	--	--	--	--	--	--	--	--	0	1	--	0.001	2
METAL	MANGANESE	D	--	--	0.024	i	--	--	0.000014	i	0	0.04	--	0.001	2
METAL	MERCURY	C	--	--	0.0003	i	--	--	--	--	0	0.07	--	0.001	2
METAL	NICKEL	D	--	--	0.02	i	--	--	--	--	0	0.04	--	0.0002	2
METAL	SELENIUM	D	--	--	0.005	i	--	--	--	--	0	1	--	0.001	2
METAL	SILVER	D	--	--	0.005	i	--	--	--	--	0	0.04	--	0.0006	2
METAL	VANADIUM	--	--	--	0.007	h	--	--	--	--	0	0.026	--	0.001	2
METAL	ZINC	D	--	--	0.3	i	--	--	--	--	0	1	--	0.0006	2
PCB	PCB-1016 (Aroclor 1016)	B2	0.07	i	0.00007	i	0.07	i	--	--	0.14	1	--	0.5	4
PCB	PCB-1221 (Aroclor 1221)	B2	2	i	--	--	2	i	--	--	0.14	1	--	0.22	4
PCB	PCB-1232 (Aroclor 1232)	B2	2	i	--	--	2	i	--	--	0.14	1	--	0.22	4
PCB	PCB-1242 (Aroclor 1242)	B2	2	i	--	--	2	i	--	--	0.14	1	--	0.92	4
PCB	PCB-1248 (Aroclor 1248)	B2	2	i	--	--	2	i	--	--	0.14	1	--	0.92	4
PCB	PCB-1254 (Aroclor 1254)	B2	2	i	0.00002	i	2	i	--	--	0.14	1	--	1.3	4
PCB	PCB-1260 (Aroclor 1260)	B2	2	i	--	--	2	i	--	--	0.14	1	--	5.5	4
PEST	ALDRIN	B2	17	i	0.00003	i	17.15	i	--	--	0.1	1	--	0.0014	2
PEST	ALPHA BHC	B2	6.3	i	0.0005	n	6.3	i	--	--	0.04	1	--	0.028	4
PEST	ALPHA CHLORDANE	B2	0.35	i	0.0005	i	0.35	i	0.0002	i	0.04	1	--	--	--
PEST	BETA BHC	C	1.8	i	0.0002	n	1.8	i	--	--	0.04	1	--	0.0279	4
PEST	DELTA BHC	--	6.3	6	0.0005	6	6.3	6	--	--	0.04	1	--	0.028	4
PEST	DIELDRIN	B2	16	i	0.00005	i	16.1	i	--	--	0.1	1	--	0.012	2
PEST	ENDOSULFAN SULFATE	--	--	--	0.006	17	--	--	--	--	0.1	1	--	--	--
PEST	ENDRIN	D	--	--	0.0003	i	--	--	--	--	0.1	1	--	--	--

TABLE 4-2

Summary of Toxicity Values Used in the Human Health Risk Assessment

Ft. Richardson

Chemical Class	Chemical Name	WOE	SFo (kg-day/mg)	Source	RfDo (mg/kg-day)	Source	SFi (kg-day/mg)	Source	RfDi (mg/kg-day)	Source	ABSd[1]	ABSgi[2]	VF[3]	Kp (cm/hour)	Source
PEST	ENDRIN ALDEHYDE	D	--	--	0.0003	12	--	--	--	--	0.1	1	--	0.012	12
PEST	ENDRIN KETONE	--	--	--	0.0003	12	--	--	--	--	0.1	1	--	--	--
PEST	GAMMA BHC (LINDANE)	B2-C	1.3	h	0.0003	i	--	--	--	--	0.04	1	--	0.011	2
PEST	GAMMA CHLORDANE	B2	0.35	i	0.0005	i	0.35	i	0.0002	i	0.04	1	--	--	--
PEST	HEPTACHLOR	B2	4.5	i	0.0005	i	4.55	i	--	--	0.1	1	--	0.0086	2
PEST	HEPTACHLOR EPOXIDE	B2	9.1	i	0.000013	i	9.1	i	--	--	0.1	1	--	0.028	4
PEST	METHOXYCHLOR	D	--	--	0.005	i	--	--	--	--	0.1	1	--	--	--
PEST	p,p'-DDD	B2	0.24	i	--	--	--	--	--	--	0.03	1	--	--	--
PEST	p,p'-DDE	B2	0.34	i	--	--	--	--	--	--	0.03	1	--	--	--
PEST	p,p'-DDT	B2	0.34	i	0.0005	i	0.34	i	--	--	0.03	1	--	--	--
SVOC	2,4-DIMETHYLPHENOL	--	--	--	0.02	i	--	--	--	--	0.1	1	--	0.011	2
SVOC	2-METHYLNAPHTHALENE	--	--	--	0.009	n	--	--	--	--	0.13	1	--	0.0142	4
SVOC	2-METHYLPHENOL (o-CRESOL)	C	--	--	0.05	i	--	--	--	--	0.1	1	--	0.0077	2
SVOC	3&4-METHYLPHENOL	C	--	--	0.005	h	--	--	--	--	0.1	1	--	0.077	2
SVOC	4-CHLORO-3-METHYLPHENOL	C	--	--	0.005	15	--	--	--	--	0.1	1	--	--	--
SVOC	4-METHYLPHENOL (p-CRESOL)	C	--	--	0.005	h	--	--	--	--	0.1	1	--	0.0077	2
SVOC	ACENAPHTHENE	D	--	--	0.06	i	--	--	--	--	0.13	1	--	0.13	4
SVOC	ACENAPHTHYLENE	--	--	--	0.06	13	--	--	--	--	0.13	1	--	0.14	4
SVOC	ANTHRACENE	D	--	--	0.3	i	--	--	--	--	0.13	1	--	--	--
SVOC	BENZO(a)ANTHRACENE	B2	0.73	n	--	--	--	--	--	--	0.13	1	--	--	--
SVOC	BENZO(a)PYRENE	B2	7.3	i	--	--	--	--	--	--	0.13	1	--	0.7	2
SVOC	BENZO(b)FLUORANTHENE	B2	0.73	n	--	--	--	--	--	--	0.13	1	--	0.7	2
SVOC	BENZO(g,h,i)PERYLENE	--	--	--	--	0.03	16	--	--	--	0.13	1	--	2	4
SVOC	BENZO(k)FLUORANTHENE	B2	0.073	n	--	--	--	--	--	--	0.13	1	--	1.2	4
SVOC	BENZYL ALCOHOL	--	--	--	0.3	h	--	--	--	--	0.1	1	--	0.0025	4
SVOC	BENZYL BUTYL PHTHALATE	C	--	--	0.2	i	--	--	--	--	0.1	1	--	--	--
SVOC	bis(2-ETHYLHEXYL) PHTHALATE	--	0.014	i	0.02	i	--	--	--	--	0.1	1	--	0.025	2
SVOC	CHRYSENE	B2	0.0073	n	--	--	--	--	--	--	0.13	1	--	--	--
SVOC	DIBENZ(a,h)ANTHRACENE	B2	7.3	n	--		--	--	--	--	0.13	1	--	1.5	2
SVOC	DIBENZOFURAN	D	--	--	0.004	n	--	--	--	--	0	1	--	--	--
SVOC	DIETHYL PHTHALATE	D	--	--	0.8	i	--	--	--	--	0.1	1	--	0.0039	2
SVOC	DI-n-BUTYL PHTHALATE	D	--	--	0.1	i	--	--	--	--	0.1	1	--	0.024	2
SVOC	DI-n-OCTYLPHTHALATE	D	--	--	0.04	h	--	--	--	--	0.1	1	--	4.45	4
SVOC	FLUORANTHENE	D	--	--	0.04	i	--	--	--	--	0.13	1	--	--	--
SVOC	FLUORENE	D	--	--	0.04	i	--	--	--	--	0.13	1	--	0.17	4
SVOC	INDENO(1,2,3-c,d)PYRENE	B2	0.73	n	--	--	--	--	--	--	0.13	1	--	1	2
SVOC	PHENANTHRENE	D	--	--	0.3	14	--	--	--	--	0.13	1	--	0.14	2
SVOC	PHENOL	--	--	--	0.6	i	--	--	--	--	0.1	1	--	0.0043	2
SVOC	PYRENE	D	--	--	0.03	i	--	--	--	--	0.13	1	--	--	--
VOC	1,1,1,2-TETRACHLOROETHANE	C	0.026	i	0.03	i	0.026	i	0.03	r	0	1	1.41E+04	0.022	4
VOC	1,1,1-TRICHLOROETHANE	D	--	--	0.28	n	--	--	0.63	n	0	1	2.21E+03	0.013	2
VOC	1,1,2,2-TETRACHLOROETHANE	C	0.2	i	0.06	n	0.2	i	0.06	r	0	1	1.41E+04	0.0069	2
VOC	1,1,2-TRICHLOROETHANE	C	0.057	i	0.004	i	0.056	i	0.004	r	0	1	6.49E+03	0.0064	2
VOC	1,1-DICHLOROETHANE	C	--	--	0.1	h	--	--	0.14	h	0	1	2.42E+03	0.0067	2
VOC	1,1-DICHLOROPROPENE	B2	0.1	7	0.03	7	0.014	7	0.0057	7	0	1	1.80E-03	0.0043	7
VOC	1,2,3-TRICHLOROBENZENE	D	--	--	0.01	8	--	--	0.057	8	0	1	4.32E+04	0.066	8
VOC	1,2,4-TRICHLOROBENZENE	D	--	--	0.01	i	--	--	0.057	h	0	1	4.32E+04	0.066	2
VOC	1,2,4-TRIMETHYLBENZENE	--	--	--	0.05	n	--	--	0.0017	n	0	1	1.97E+04	0.13	4
VOC	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	B2	85	i	0.000057	r	0.77	i	0.000057	h	0	1	9.22E+03	0.0028	2
VOC	1,2-DICHLOROBENZENE	--	--	--	0.09	--	--	--	0.057	h	0	1	1.46E+04	0.041	2
VOC	1,2-DICHLOROETHANE	B2	0.091	i	0.03	n	0.091	i	0.0014	n	0	1	3.91E+03	0.0042	2

TABLE 4-2

Summary of Toxicity Values Used in the Human Health Risk Assessment

Ft. Richardson

Chemical Class	Chemical Name	WOE	SFo (kg-day/mg)	Source	RfDo (mg/kg-day)	Source	SFi (kg-day/mg)	Source	RfDi (mg/kg-day)	Source	ABSd[1]	ABSgi[2]	VF[3]	Kp (cm/hour)	Source
VOC	1,2-DICHLOROPROPANE	--	0.068	h	0.0011	r	0.068	r	0.0011	i	0	1	3.59E+03	0.0078	2
VOC	1,3,5-TRIMETHYLBENZENE (MESITYLENE)	--	--	--	0.05	n	--	--	0.0017	n	0	1	8.04E+03	0.094	4
VOC	1,3-DICHLOROBENZENE	D	--	--	0.0009	n	--	--	0.0009	r	0	1	1.46E+04	0.058	2
VOC	1,3-DICHLOROPROPANE	--	0.068	9	0.0011	9	0.068	9	0.0011	9	0	--	3.91E+03	0.010	4
VOC	1,4-DICHLOROBENZENE	--	0.024	h	0.03	n	0.022	n	0.23	i	0	1	1.29E+04	0.042	2
VOC	2-CHLOROTOLUENE	D	--	--	0.02	i	--	--	0.02	r	0	1	5.63E+03	0.086	4
VOC	4-CHLOROTOLUENE	D	--	--	0.02	10	--	--	0.02	10	0	1	5.63E+03	0.086	10
VOC	ACETONE	D	--	--	0.1	i	--	--	0.1	r	0	1	1.26E+04	0.00057	4
VOC	BENZENE	A	0.055	i	0.004	i	0.029	i	0.0086	i	0	1	2.73E+03	0.015	2
VOC	BROMODICHLOROMETHANE	B2	0.062	i	0.02	i	0.062	r	0.02	r	0	1	8.26E+03	0.0046	2
VOC	CARBON DISULFIDE	--	--	--	0.1	i	--	--	0.2	i	0	1	1.19E+03	0.017	2
VOC	CARBON TETRACHLORIDE	B2	0.13	i	0.0007	i	0.053	i	0.0007	r	0	1	2.07E+03	0.016	2
VOC	CHLOROBENZENE	D	--	--	0.02	i	--	--	0.017	n	0	1	6.27E+03	0.028	2
VOC	CHLOROETHANE	--	0.0029	n	0.4	n	0.0029	r	2.9	i	0	1	1.32E+03	0.0061	2
VOC	CHLOROFORM	B2	--	--	0.01	i	--	--	0.00086	n	0	1	2.66E+03	0.0068	2
VOC	CHLOROMETHANE	--	0.013	h	--	--	0.0063	h	0.086	n	0	1	1.18E+03	0.0033	2
VOC	cis-1,2-DICHLOROETHYLENE	D	--	--	0.01	h	--	--	0.01	r	0	1	2.90E+03	0.015	4
VOC	cis-1,3-DICHLOROPROPENE	B2	0.1	7	0.03	7	0.014	7	0.0057	7	0	1	1.80E+03	0.0043	7
VOC	DIBROMOCHLOROMETHANE	C	0.084	i	0.02	i	0.084	r	0.02	r	0	1	1.62E+04	0.0035	4
VOC	ETHYLBENZENE	D	--	--	0.1	i	--	--	0.29	i	0	1	5.40E+03	0.049	2
VOC	HEXACHLOROBUTADIENE	C	0.078	i	0.0003	n	0.078	i	0.0003	r	0.1	1	--	0.081	2
VOC	IODOMETHANE (METHYL IODIDE)	--	--	--	--	--	--	--	--	--	0	1	--	--	--
VOC	ISOPROPYLBENZENE (CUMENE)	D	--	--	0.1	i	--	--	0.11	i	0	1	3.59E+03	0.14	4
VOC	METHYL ETHYL KETONE (2-BUTANONE)	D	--	--	0.6	i	--	--	0.29	i	0	1	1.94E+04	--	--
VOC	METHYL ISOBUTYL KETONE	--	--	--	0.08	h	--	--	0.02	h	0	1	2.52E+04	0.00397	4
VOC	METHYLENE CHLORIDE	B2	0.0075	i	0.06	i	0.0016	i	0.86	h	0	1	2.49E+03	0.0035	2
VOC	NAPHTHALENE	C	--	--	0.02	i	--	--	0.00086	i	0.13	1	4.33E+04	0.047	2
VOC	n-BUTYLBENZENE	--	--	--	0.04	n	--	--	0.04	r	0	1	1.13E+04	0.12	5
VOC	n-PROPYLBENZENE	--	--	--	0.04	n	--	--	0.04	r	0	1	1.13E+04	0.071	5
VOC	P-CYMENE (p-ISOPROPYLTOLUENE)	D	--	--	0.1	11	--	--	0.11	11	0	1	3.59E+03	0.14	4
VOC	SEC-BUTYLBENZENE	--	--	--	0.04	n	--	--	0.04	r	0	1	8.31E+03	0.11	5
VOC	STYRENE	C	--	--	0.2	i	--	--	0.29	i	0	1	1.34E+04	0.037	2
VOC	t-BUTYLBENZENE	--	--	--	0.04	n	--	--	0.04	r	0	1	1.01E+04	0.11	5
VOC	tert-BUTYL METHYL ETHER	--	0.0033	n	0.857	r	0.00035	n	0.857	i	0	1	4.69E+03	0.0026	4
VOC	TETRACHLOROETHYLENE (PCE)	C-B2	0.052	n	0.01	i	0.01	n	0.17	n	0	1	2.55E+03	0.033	2
VOC	TOLUENE	D	--	--	0.2	i	--	--	0.11	i	0	1	3.98E+03	0.031	2
VOC	trans-1,2-DICHLOROETHENE	--	--	--	0.02	i	--	--	0.02	r	0	1	2.32E+03	0.0077	2
VOC	trans-1,3-DICHLOROPROPENE	B2	0.1	7	0.03	7	0.014	7	0.0057	7	0	1	1.80E+03	0.0043	7
VOC	TRICHLOROETHYLENE (TCE)	B2	0.011	n	0.006	n	0.006	n	0.006	n	0	1	3.26E+03	0.012	2
VOC	VINYL ACETATE	--	--	--	1	h	--	--	0.057	i	0	1	4.79E+03	0.0019	4
VOC	VINYL CHLORIDE (adult)	A	0.75	i	0.003	i	0.016	i	0.029	i	0	1	1.04E+03	0.0056	2
VOC	VINYL CHLORIDE (child/adult)	--	1.5	i	0.003	i	0.031	i	0.029	i	0	1	1.04E+03	0.0056	2
VOC	XYLENES, TOTAL	D	--	--	0.2	i	--	--	0.029	i	0.1	1	6.10E+03	0.0053	2

Group	Description
A	Human carcinogen, based on evidence from epidemiological studies
B1 or B2	Probable human carcinogen B1 indicates that limited human data are available. B2 indicates sufficient evidence in animals and inadequate or no evidence in humans.

TABLE 4-2
Summary of Toxicity Values Used in the Human Health Risk Assessment
Ft. Richardson

Chemical Class	Chemical Name	WOE	SFo (kg-day/mg)	Source	RfDo (mg/kg-day)	Source	SFi (kg-day/mg)	Source	RfDi (mg/kg-day)	Source	ABSd[1]	ABSgi[2]	VF[3]	Kp (cm/hour)	Source
	Possible human carcinogen, based on limited														
C	evidence in animals														
D	Not classifiable as to human carcinogenicity														
E	Evidence of noncarcinogenicity for humans														

Sources:
h. EPA. Health Effects Assessment Summary Tables (HEAST) FY 1997 Update. EPA-540-R-97-036. July 1997.
i. USEPA. The Integrated Risk Information System (IRIS, 2003), a database available through the EPA National Center for Environmental Assessment (NCEA). http://www.epa.gov/iris/
n. USEPA Region IX PRG Tables. October 2002. http://www.epa.gov/docs/region09/waste/
r. Route to route extrapolation
w. WHO. Toxicity equivalency factors (TEFs) were calculated in accordance with Vanden Berg, M., et al., 1998, Environmental Health Perspectives, Vol. 106 pp. 775-792.

[1] All dermal absorption factors are from the USEPA Region IX PRG Tables. October 2002.
[2] USEPA. Risk Assessment Guidance for Suerfund Volume I: Human Helath Evaluation Manual (Part E, Supplemental Guidance for Dermal Risk Assessment) Interim. EPA/540/R/99/005. September 2001.
[3] USEPA. Soil Screening Guidance: Users Guide. EPA/540/R-96/018. April 1996.
[4] ORNL, 2003. Chemical Specific Factors: Dermal Permability Coefficients. Oak Ridge National Laboratory Internet Site. http://risk.lsd.ornl.gov/cgi-bin/tox/TOX_select?select=csf
[5] Kp values were calculated using USEPA. Risk Assessment Guidance for Suerfund Volume I: Human Helath Evaluation Manual (Part E, Supplemental Guidance for Dermal Risk Assessment) Interim. EPA/540/R/99/005. September 2001. Equation 3.8.

[6] The toxicity values for Alpha-BHC were used as a surrogate for Delta-BHC.
[7] The toxicity values for 1,3-dichloropropene were used as a surrogate for 1,1-dichloropropene, cis-1,3-dichloropropene, and trans-1,3-dichloropropene.
[8] The toxicity values for 1,2,4-trichlorobenzene were used as a surrogate for 1,2,3-trichlorobenzene.
[9] The toxicity values for 1,2-dichloropropane were used as a surrogate for 1,3-dichloropropane.
[10] The toxicity values for 2-chlorotoluene were used as a surrogate for 4-chlorotoluene.
[11] The toxicity values for cumene (isopropylbenzene) were used as a surrogate for p-cymene (p-isopropyltoluene).
[12] The toxicity values for endrin were used as a surrogate for endrin aldehyde and endrin ketone.
[13] The toxicity values for acenaphthene were used as a surrogate for acenaphthylene.
[14] The toxicity values for anthracene were used as a surrogate for phenanthrene.

SECTION 5

Human Health Risk Characterization

5.1 Risk Quantification Methodology

This section summarizes the methods for calculating human health risk. Risk is quantified by combining the results of the exposure assessment (estimated chemical intakes) with the results of the toxicity assessment (toxicity values) to provide numerical estimates of potential health effects. The quantification approach will differ for potential noncancer and cancer effects, as described in the following subsections.

Although this baseline HHRA produces numerical estimates of risk, these numbers might not predict actual health outcomes because they are based largely on hypothetical and health-conservative assumptions. Their purpose is to provide a frame of reference for risk management decisionmaking. Interpretation of the risk estimates provided should consider the nature and weight of evidence supporting these estimates as well as the magnitude of uncertainty surrounding them. Uncertainty is addressed in detail in Section 6.

For the purposes of this evaluation, the potential for unacceptable human health risk is identified using the following risk thresholds:

- Excess lifetime cancer risk values are compared to the "point of departure" range of 10^{-6} to 10^{-4} that is generally used by regulatory agencies. Excess lifetime cancer risk values within or exceeding this EPA target risk range require a risk management decision that includes evaluating site-specific characteristics and exposure scenario factors to assess whether remedial action is warranted. (EPA 1991c)
- A ratio of chemical intake to the RfD for all constituents (hazard index [HI]) greater than 1 indicates that potential exists for adverse noncancer health effects associated with exposure to the contaminants of concern (EPA, 1991c).

5.1.1 Cancer Risk Estimation Method

Individual cancer risk is calculated as the product of exposure to a chemical (in mg/kg-day) and the slope factor (SF) for that chemical (in mg/kg-day)$^{-1}$, as follows:

$$Risk = Intake \times SF$$

Cancer risk from exposure to multiple carcinogens and multiple pathways is assumed to be additive, based on the guidelines for carcinogen risk assessment (EPA, 1996).

Each SF is accompanied by a weight-of-evidence classification, which considers the available data for a chemical in order to evaluate the likelihood that the chemical is a potential human carcinogen (Table 4-2).

The human health risk posed by each exposure area is calculated using the following process:

- Calculate risk–either ELCR or hazard quotient (HQ)–from the exposure point concentrations for each contaminant.
- Sum the risk estimates from all contaminants to estimate the total ELCR or HI for each exposure area.

The potential for cancer effects is evaluated by estimating the ELCR. This risk is the incremental increase in the probability of developing cancer during one's lifetime in addition to the background probability of developing cancer (if no exposure to site chemicals occurs). For example, a $2x10^{-6}$ ELCR means that, for every 1 million people exposed to the carcinogen throughout their lifetimes, the average incidence of cancer may increase by two cases of cancer. In the U.S., the background probability of developing cancer for men is a little less than one in two, and for women a little more than one in three (American Cancer Society, 2003). As previously mentioned, cancer SFs developed by the EPA represent upperbound estimates, so any cancer risks generated in this assessment should be regarded as upper bound on the potential cancer risks rather than accurate representations of true cancer risk. (EPA is currently undergoing a reevaluation of the methodology for assessing risks from exposure to trichloroethene [TCE] and dioxins/ furans.) The true cancer risk is likely to be less than that predicted (EPA, 1989). For OUE, excess lifetime cancer risks were estimated by using the following formula:

$$Risk = I \times SF$$

where:

Risk = excess lifetime cancer risk (unitless probability)
I = chronic daily intake averaged over a lifetime (mg/kg-day)
SF = cancer slope factor $(mg/kg\text{-}day)^{-1}$

Although synergistic or antagonistic interactions might occur between cancer-causing chemicals and other chemicals, information is generally lacking in the toxicological literature to predict quantitatively the effects of these potential interactions. Therefore, cancer risks are treated as additive within an exposure route in this assessment. This is consistent with the EPA guidelines on chemical mixtures (EPA, 1986). For estimating the cancer risks from exposure to multiple carcinogens from a single exposure route, the following equation is used:

$$Risk_T = \sum_{1}^{N} Risk_i$$

where:

$Risk_T$ = total cancer risk from route of exposure
$Risk_I$ = cancer risk for the i^{th} chemical
N = number of chemicals

5.1.2 Noncancer Risk Estimation

Potential health risk associated with exposure to noncarcinogenic compounds is evaluated by calculating HQ. The potential HQ was calculated as the ratio of the intake to the RfD as follows:

$$HQ = \frac{Intake}{RfD}$$

If the estimated daily intake for any single chemical is greater than its RfD, the HQ will exceed 1. An HQ that exceeds 1 indicates that there is a potential for adverse health effects associated with exposure to that chemical.

An HI is calculated to assess the potential for noncancer effects posed by more than one chemical. The HI approach assumes that simultaneous subthreshold exposures to several chemicals could result in an adverse health effect. It also assumes that the magnitude of the adverse effect will be proportional to the sum of the ratios of the subthreshold exposures to the acceptable exposure (the RfD). The HI is equal to the sum of the HQs and is calculated as follows:

$$HI = \frac{I_1}{RfD_1} + \frac{I_2}{RfD_2} + \cdots \frac{I_i}{RfD_i}$$

where:

I_i = intake for the i^{th} chemical
RfD_i = reference dose for the i^{th} chemical

I and RfD are expressed in the same units (mg/kg-day) and represent the same exposure period (chronic).

5.1.3 Risk Estimation Method for Lead

For direct contact pathways, the EPCs for lead in sediment were compared to both the EPA Region IX industrial soil preliminary remediation goal (PRG) of 750 mg/kg and the residential soil PRG of 400 mg/kg, and the EPCs for lead in groundwater were compared to the EPA drinking water action level of 0.015 mg/L.

5.2 Summary of Risk Estimates for the Building 35-752 Area

This section summarizes the risk estimates for the exposure scenarios considered for the Building 35-752 area. Risks for soil include evaluation of the eight subgroups previously defined in Section 2, as well as estimates for the entire area. Surface soil samples were evaluated for the current site-specific worker, the future industrial worker, the onsite trespasser, and the hypothetical future resident exposure scenarios. Subsurface soil samples were evaluated for the onsite excavation worker scenario. Risks for groundwater were evaluated on a well-specific basis for the hypothetical future residential scenario. The risk estimates for all of these scenarios are representative of current and future site-use conditions and are summarized in the following subsections for the Building 35-752 area.

The COPCs identified for the Building 35-752 area are described in Section 2 and listed in Tables 2-1 and 2-2. Risk estimates for each exposure scenario considered are provided for the incidental ingestion, dermal, and inhalation routes, as well as cumulative risks across all exposure routes. Appendix C provides the risk calculation data sheets used to develop the risk summary tables for each of the soil exposure scenarios described in the subsections below.

5.2.1 Soil Risk Estimates for Building 35-752 Area

Tables 5-1 through 5-5 summarize the noncancer and ELCR estimates for the surface and subsurface soil exposure scenarios. Appendix C provides the risk calculation data tables for each exposure scenario (Tables C-1 through C-90). A comparison of lead concentrations to the Region IX PRGs indicated that none exceeded the Region IX industrial PRG of 750 mg/kg or the residential PRG of 400 mg/kg. The maximum detected lead concentration in soil at the Building 35-752 area was 94 mg/kg.

5.2.1.1 Current Site-Specific Worker

Building 35-752. The HI for noncancer effects is 0.002, which is below the regulatory threshold value of 1.0. The cumulative ELCR from all carcinogenic COPCs is $1x10^{-6}$, which is within the regulatory target risk range of $1x10^{-6}$ to $1x10^{-4}$. No individual constituents were reported with an ELCR greater than $1x10^{-6}$ (Tables C-3 and C-4).

Burn Pit Area. The HI for noncancer effects is 0.00002, which is below the regulatory threshold value of 1.0. The cumulative ELCR from all carcinogenic COPCs is $2x10^{-8}$, which is below the regulatory target risk range of $1x10^{-6}$ to $1x10^{-4}$. No individual constituents were reported with an ELCR greater than $1x10^{-6}$ (Tables C-5 and C-6).

Cooling Pond Area. The HI for noncancer effects is 0.004, which is below the regulatory threshold value of 1.0. The cumulative ELCR from all carcinogenic COPCs is $7x10^{-7}$, which is below the regulatory target risk range of $1x10^{-6}$ to $1x10^{-4}$. No individual constituents were reported with an ELCR greater than $1x10^{-6}$ (Tables C-7 and C-8).

Former Drum Accumulation Area. The HI for noncancer effects is 0.2, which is below the regulatory threshold value of 1.0. The cumulative ELCR from all carcinogenic COPCs is $3x10^{-6}$, which is within the regulatory target risk range of $1x10^{-6}$ to $1x10^{-4}$. PCB-1260 (Aroclor 1260) is the primary contributor to risk ($3x10^{-6}$; 76 percent contribution) (Tables C-9 and C-10).

Former Tank Location. The HI for noncancer effects is 0.00003, which is below the regulatory threshold value of 1.0. The cumulative ELCR from all carcinogenic COPCs is $3x10^{-9}$, which is below the regulatory target risk range of $1x10^{-6}$ to $1x10^{-4}$. No individual constituents were reported with an ELCR greater than $1x10^{-6}$ (Tables C-11 and C-12).

Periphery Road. The HI for noncancer effects was not calculated because none of the constituents has an associated reference dose. The cumulative ELCR from all carcinogenic COPCs is $2x10^{-7}$, which is below the regulatory target risk range of $1x10^{-6}$ to $1x10^{-4}$. No individual constituents were reported with an ELCR greater than $1x10^{-6}$ (Tables C-13 and C-14).

Table 5-1

Summary of Risk Estimates for Building 35-752 Surface Soil for the Current Site Specific Worker Scenario

Building 35-752

OUE, Fort Richardson, Alaska

Exposure Area	Exposure Route	ELCR	HI	Primary Contributor to Total ELCR[a]
All Surface Soil	Ingestion	3.4E-07	0.06	--
	Dermal	2.8E-07	0.0004	
	Inhalation	1.7E-10	0.0003	
	Total	6.1E-07	0.06	
Building 35-752	Ingestion	5.0E-07	0.001	--
	Dermal	4.5E-07	0.0007	
	Inhalation	7.7E-11	0.00000022	
	Total	9.5E-07	0.0017	
Burn Pit	Ingestion	8.2E-09	0.000011	--
	Dermal	6.8E-09	0.0000052	
	Inhalation	2.4E-10	0.0000069	
	Total	1.5E-08	0.000023	
Cooling Pond	Ingestion	3.8E-07	0.003	
	Dermal	3.3E-07	0.0007	
	Inhalation	4.4E-11	0.0005	
	Total	7.2E-07	0.004	
Former Drum	Ingestion	1.9E-06	0.18	PCB Aroclor-1260 ELCR=2.5E-06 (76%)
	Dermal	1.4E-06	0.0051	
	Inhalation	6.3E-08	0.011	
	Total	3.3E-06	0.20	
Former Tank Location	Ingestion	1.9E-09	0.000018	--
	Dermal	1.6E-09	0.0000082	
	Inhalation	2.8E-13	--	
	Total	3.4E-09	0.000026	
Periphery Road	Ingestion	1.3E-07	--	
	Dermal	8.9E-08	--	
	Inhalation	2.0E-11	--	
	Total	2.2E-07	--	
Soil Stockpile	Ingestion	2.5E-08	--	--
	Dermal	1.9E-08	--	
	Inhalation	3.9E-12	--	
	Total	4.4E-08	--	
Transformer Mounting	Ingestion	5.6E-07	--	--
	Dermal	4.7E-07	--	
	Inhalation	8.6E-11	--	
	Total	1.0E-06	--	

[a] Primary contributors for soil are listed for constituents with ELCR > 10^{-6}

Table 5-2

Summary of Risk Estimates for Building 35-752 Surface Soil for the Onsite Industrial Worker Scenario

Building 35-752

OUE, Fort Richardson, Alaska

Exposure Area	Exposure Route	ELCR	HI	Primary Contributor to Total ELCR[a]
All Surface Soil	Ingestion	2.8E-06	0.06	PCB Aroclor-1260 ELCR=3.6E-06 (71%)
	Dermal	2.3E-06	0.0004	
	Inhalation	1.4E-09	0.0003	
	Total	5.1E-06	0.06	
Building 35-752	Ingestion	4.1E-06	0.0017	PCB Aroclor-1260 ELCR=7.4E-06 (94%)
	Dermal	3.8E-06	0.0011	
	Inhalation	6.4E-10	0.00000037	
	Total	7.9E-06	0.0028	
Burn Pit Area	Ingestion	4.8E-08	0.00001	--
	Dermal	3.3E-08	0.0000046	
	Inhalation	3.2E-09	0.00019	
	Total	7.6E-08	0.00020	
Cooling Pond	Ingestion	1.9E-06	0.002	PCB Aroclor-1260 ELCR=1.7E-06 (47%)
	Dermal	1.7E-06	0.0004	
	Inhalation	2.2E-10	0.0003	
	Total	3.6E-06	0.002	
Drum (former)	Ingestion	7.0E-06	0.06	PCB Aroclor-1260 ELCR=1.3E-05 (94%)
	Dermal	6.4E-06	0.0001	
	Inhalation	1.0E-09	--	
	Total	1.3E-05	0.06	
Former Tank Location	Ingestion	1.5E-08	0.000018	--
	Dermal	1.3E-08	0.000008	
	Inhalation	2.3E-12	--	
	Total	2.9E-08	0.000026	
Periphery Road	Ingestion	1.1E-06	--	PCB Aroclor-1260 ELCR=1.4E-06 (76%)
	Dermal	7.4E-07	--	
	Inhalation	1.7E-10	--	
	Total	1.8E-06	--	
Soil Stockpile Area	Ingestion	2.1E-07	--	--
	Dermal	1.5E-07	--	
	Inhalation	3.2E-11	--	
	Total	3.6E-07	--	
Transformer Mounting	Ingestion	4.6E-06	--	PCB Aroclor-1260 ELCR=7.9E-06 (93%)
	Dermal	3.9E-06	--	
	Inhalation	7.2E-10	--	
	Total	8.6E-06	--	

[a] Primary contributors for soil are listed for constituents with ELCR > 10^{-6}

Table 5-3

Summary of Risk Estimates for Building 35-752 Surface Soil for the Onsite Trespasser Scenario

Building 35-752

OUE, Fort Richardson, Alaska

Exposure Area	Exposure Route	ELCR	HI	Primary Contributor to Total ELCR[a]
All Surface Soil	Ingestion	1.9E-07	0.010	--
	Dermal	9.3E-08	0.00005	
	Inhalation	9.6E-11	--	
	Total	2.8E-07	0.011	
Building 35-752	Ingestion	2.8E-07	0.00019	--
	Dermal	1.5E-07	0.000074	
	Inhalation	4.2E-11	0.000000041	
	Total	4.3E-07	0.00026	
Burn Pit	Ingestion	2.7E-09	0.0000019	--
	Dermal	1.3E-09	0.00000052	
	Inhalation	2.2E-10	0.000035	
	Total	4.3E-09	0.000037	
Cooling Pond	Ingestion	1.3E-07	0.0003	--
	Dermal	6.8E-08	0.00005	
	Inhalation	1.5E-11	0.00005	
	Total	2.0E-07	0.0004	
Former Drum	Ingestion	4.7E-07	0.011	--
	Dermal	2.6E-07	0.00002	
	Inhalation	6.7E-11	--	
	Total	7.3E-07	0.011	
Former Tank Location	Ingestion	1.0E-09	0.0000034	--
	Dermal	5.4E-10	0.00000093	
	Inhalation	1.5E-13	--	
	Total	1.6E-09	0.0000043	
Periphery Road	Ingestion	7.3E-08	--	--
	Dermal	3.0E-08	--	
	Inhalation	1.1E-11	--	
	Total	1.0E-07	--	
Soil Stockpile	Ingestion	1.4E-08	--	--
	Dermal	6.3E-09	--	
	Inhalation	2.1E-12	--	
	Total	2.0E-08	--	
Transformer Mounting	Ingestion	3.1E-07	--	--
	Dermal	1.6E-07	--	
	Inhalation	4.7E-11	--	
	Total	4.7E-07	--	

[a] Primary contributors for soil are listed for constituents with ELCR > 10^{-6}

Table 5-4

Summary of Risk Estimates for Building 35-752 Surface Soil for the Hypothetical Future Residential Scenario

Building 35-752

OUE, Fort Richardson, Alaska

Exposure Area	Exposure Route	ELCR	HI	Primary Contributor to Total ELCR[a]
All Surface Soil	Ingestion	1.2E-05	0.20	PCB Aroclor-1260 ELCR=1.2E-05 (70%)
	Dermal	4.7E-06	0.0007	Benzo(a)Pyrene ELCR=1.6E-06 (10%)
	Inhalation	2.9E-09	--	Total TCDD ELCR=1.4E-06 (8%)
	Total	1.7E-05	0.20	
Building 35-752	Ingestion	1.8E-05	0.0035	PCB Aroclor-1260 ELCR=2.4E-05 (94%)
	Dermal	7.7E-06	0.0011	Dieldrin ELCR=1.6E-06 (6%)
	Inhalation	1.3E-09	0.00000037	
	Total	2.5E-05	0.0047	
Burn Pit	Ingestion	2.9E-07	0.000039	--
	Dermal	1.2E-07	0.0000088	
	Inhalation	6.6E-09	0.00032	
	Total	4.1E-07	0.00037	
Cooling Pond	Ingestion	8.2E-06	0.006	PCB Aroclor-1260 ELCR=5.4E-06 (46%)
	Dermal	3.4E-06	0.0007	Benzo(a)Pyrene ELCR=3.2E-06 (28%)
	Inhalation	4.5E-10	0.0005	Dibenz(a,h)Anthracene ELCR=1.0E-06 (9%)
	Total	1.2E-05	0.007	
Former Drum	Ingestion	3.0E-05	0.20	PCB Aroclor-1260 ELCR=4.0E-05 (94%)
	Dermal	1.3E-05	0.0003	Benzo(a)pyrene ELCR=1.8E-06 (4%)
	Inhalation	2.0E-09	--	
	Total	4.3E-05	0.20	
Former Tank Location	Ingestion	6.6E-08	0.000065	--
	Dermal	2.7E-08	0.000014	
	Inhalation	4.6E-12	--	
	Total	9.3E-08	0.000079	
Periphery Road	Ingestion	4.6E-06	--	PCB Aroclor-1260 ELCR=4.5E-06 (73%)
	Dermal	1.5E-06		Total TCDD Mammal ELCR=1.7E-06 (27%)
	Inhalation	3.3E-10		
	Total	6.2E-06		
Soil Stockpile	Ingestion	8.9E-07	--	--
	Dermal	3.2E-07		
	Inhalation	6.5E-11		
	Total	1.2E-06		
Transformer Mounting	Ingestion	2.0E-05	--	PCB Aroclor-1260 ELCR=2.5E-05 (91%)
	Dermal	8.0E-06		Total TCDD ELCR=2.5E-06 (9%)
	Inhalation	1.4E-09		
	Total	2.8E-05		

[a] Primary contributors for soil are listed for constituents with ELCR > 10^{-6}

Table 5-5

Summary of Risk Estimates for Building 35-752 Subsurface Soil for the Onsite Trench Worker Scenario

Building 35-752

OUE, Fort Richardson, Alaska

Exposure Area	Exposure Route	ELCR	HI	Primary Contributor to Total ELCR[a]
All Subsurface Soil	Ingestion	3.2E-07	0.024	--
	Dermal	8.4E-08	0.00004	
	Inhalation	4.2E-10	0.0005	
	Total	4.1E-07	0.025	
Building 35-752	Ingestion	6.4E-07	0.0003	--
	Dermal	1.8E-07	0.00004	
	Inhalation	1.6E-10	0.00004	
	Total	8.2E-07	0.0003	
Burn Pit	Ingestion	5.2E-08	0.000045	--
	Dermal	1.2E-08	0.0000033	
	Inhalation	2.4E-12	0.00047	
	Total	6.4E-08	0.00052	
Cooling Pond	Ingestion	4.3E-07	0.0004	--
	Dermal	1.2E-07	0.00007	
	Inhalation	5.3E-11	0.00002	
	Total	5.5E-07	0.0005	
Former Drum	Ingestion	3.1E-07	0.024	--
	Dermal	8.6E-08	0.00001	
	Inhalation	1.3E-11	--	
	Total	4.0E-07	0.024	
Former Tank Location	Ingestion	1.3E-07	0.00005	--
	Dermal	3.7E-08	0.00001	
	Inhalation	9.9E-11	0.00003	
	Total	1.7E-07	0.00008	
Periphery Road	Ingestion	7.4E-08	--	--
	Dermal	1.2E-08	--	
	Inhalation	3.5E-12	--	
	Total	8.6E-08	--	
Soil Stockpile	Ingestion	2.5E-08	--	--
	Dermal	5.7E-09	--	
	Inhalation	1.2E-12	--	
	Total	3.1E-08	--	
Transformer Mounting	Ingestion	3.0E-06	--	PCB Aroclor-1260 ELCR=3.8E-06 (99%)
	Dermal	8.4E-07	--	
	Inhalation	1.4E-10	--	
	Total	3.9E-06	--	

[a] Primary contributors for soil are listed for constituents with ELCR > 10^{-6}

Soil Stockpile Area. The HI for noncancer effects was not calculated because none of the constituents has an associated reference dose. The cumulative ELCR from all carcinogenic COPCs is $4x10^{-8}$, which is below the regulatory target risk range of $1x10^{-6}$ to $1x10^{-4}$. No individual constituents were reported with an ELCR greater than $1x10^{-6}$ (Tables C-15 and C-16).

Transformer Mounting Area. The HI for noncancer effects was not calculated because none of the constituents has an associated reference dose. The cumulative ELCR from all carcinogenic COPCs is $1x10^{-6}$, which is within the regulatory target risk range of $1x10^{-6}$ to $1x10^{-4}$. No individual constituents were reported with an ELCR greater than $1x10^{-6}$ (Tables C-17 and C-18).

Entire Area (all eight areas). The HI for noncancer effects is 0.06, which is below the regulatory threshold value of 1.0. The cumulative ELCR from all carcinogenic COPCs is $6x10^{-7}$, which is below the regulatory target risk range of $1x10^{-6}$ to $1x10^{-4}$. No individual constituents were reported with an ELCR greater than $1x10^{-6}$ (Tables C-1 and C-2).

5.2.1.2 Onsite Industrial Worker Scenario

Building 35-752. The HI for noncancer effects is 0.003, which is below the regulatory threshold value of 1.0. The cumulative ELCR from all carcinogenic COPCs is $8x10^{-6}$, which is within the regulatory target risk range of $1x10^{-6}$ to $1x10^{-4}$. The primary contributor to risk is PCB-1260 (Aroclor 1260) ($7x10^{-6}$; 94 percent contribution) (Tables C-21 and C-22).

Burn Pit Area. The HI for noncancer effects is 0.0002, which is below the regulatory threshold value of 1.0. The cumulative ELCR from all carcinogenic COPCs is $8x10^{-8}$, which is below the regulatory target risk range of $1x10^{-6}$ to $1x10^{-4}$. No individual constituents were reported with an ELCR greater than $1x10^{-6}$ (Tables C-23 and C-24).

Cooling Pond Area. The HI for noncancer effects is 0.002, which is below the regulatory threshold value of 1.0. The cumulative ELCR from all carcinogenic COPCs is $4x10^{-6}$, which is within the regulatory target risk range of $1x10^{-6}$ to $1x10^{-4}$. The primary contributor to risk is PCB-1260 (Aroclor 1260) ($2x10^{-6}$; 47 percent contribution) (Tables C-25 and C-26).

Former Drum Accumulation Area. The HI for noncancer effects is 0.06, which is below the regulatory threshold value of 1.0. The cumulative ELCR from all carcinogenic COPCs is $1x10^{-5}$, which is within the regulatory target risk range of $1x10^{-6}$ to $1x10^{-4}$. The primary contributor to risk is PCB-1260 (Aroclor 1260) ($1x10^{-5}$; 94 percent contribution (Tables C-27 and C-28).

Former Tank Location. The HI for noncancer effects is 0.00003, which is below the regulatory threshold value of 1.0. The cumulative ELCR from all carcinogenic COPCs is $3x10^{-8}$, which is below the regulatory target risk range of $1x10^{-6}$ to $1x10^{-4}$. No individual constituents were reported with an ELCR greater than $1x10^{-6}$ (Tables C-29 and C-30).

Periphery Road. The HI for noncancer effects was not calculated because none of the constituents has an associated reference dose. The cumulative ELCR from all carcinogenic COPCs is $2x10^{-6}$, which is within the regulatory target risk range of $1x10^{-6}$ to $1x10^{-4}$. The primary contributor to risk is PCB-1260 (Aroclor 1260) ($1x10^{-6}$; 76 percent contribution) (Tables C-31 and C-32).

Soil Stockpile Area. The HI for noncancer effects was not calculated because none of the constituents has an associated reference dose. The cumulative ELCR from all carcinogenic COPCs is $4x10^{-7}$, which is below the regulatory target risk range of $1x10^{-6}$ to $1x10^{-4}$. No individual constituents were reported with an ELCR greater than $1x10^{-6}$ (Tables C-33 and C-34).

Transformer Mounting Area. The HI for noncancer effects was not calculated because none of the constituents has an associated reference dose. The cumulative ELCR from all carcinogenic COPCs is $9x10^{-6}$, which is within the regulatory target risk range of $1x10^{-6}$ to $1x10^{-4}$. The primary contributor to risk is PCB-1260 (Aroclor 1260) ($8x10^{-6}$; 93 percent contribution) (Tables C-35 and C-36).

Entire Area (all eight areas). The HI for noncancer effects was 0.06, which is below the regulatory threshold value of 1.0. The cumulative ELCR from all carcinogenic COPCs is $5x10^{-6}$, which is within the regulatory target risk range of $1x10^{-6}$ to $1x10^{-4}$. The primary contributor to risk is PCB-1260 (Aroclor 1260) ($4x10^{-6}$; 71 percent contribution (Tables C-19 and C-20).

5.2.1.3 Onsite Trespasser Scenario

Building 35-752. The HI for noncancer effects is 0.0003, which is below the regulatory threshold value of 1.0. The cumulative ELCR from all carcinogenic COPCs is $4x10^{-7}$, which is below the regulatory target risk range of $1x10^{-6}$ to $1x10^{-4}$. No individual constituents were reported with an ELCR greater than $1x10^{-6}$ (Tables C-39 and C-40).

Burn Pit Area. The HI for noncancer effects is 0.00004, which is below the regulatory threshold value of 1.0. The cumulative ELCR from all carcinogenic COPCs is $4x10^{-9}$, which is below the regulatory target risk range of $1x10^{-6}$ to $1x10^{-4}$. No individual constituents were reported with an ELCR greater than $1x10^{-6}$ (Tables C-41 and C-42).

Cooling Pond Area. The HI for noncancer effects is 0.0004, which is below the regulatory threshold value of 1.0. The cumulative ELCR from all carcinogenic COPCs is $2x10^{-7}$, which is below the regulatory target risk range of $1x10^{-6}$ to $1x10^{-4}$. No individual constituents were reported with an ELCR greater than $1x10^{-6}$ (Tables C-43 and C-44).

Former Drum Accumulation Area. The HI for noncancer effects is 0.01, which is below the regulatory threshold value of 1.0. The cumulative ELCR from all carcinogenic COPCs is $7x10^{-7}$, which is below the regulatory target risk range of $1x10^{-6}$ to $1x10^{-4}$. No individual constituents were reported with an ELCR greater than $1x10^{-6}$ (Tables C-45 and C-46).

Former Tank Location. The HI for noncancer effects is 0.000004, which is below the regulatory threshold value of 1.0. The cumulative ELCR from all carcinogenic COPCs is $2x10^{-9}$, which is below the regulatory target risk range of $1x10^{-6}$ to $1x10^{-4}$. No individual constituents were reported with an ELCR greater than $1x10^{-6}$ (Tables C-47 and C-48).

Periphery Road. The HI for noncancer effects was not calculated because none of the constituents have an associated reference dose. The cumulative ELCR from all carcinogenic COPCs is $1x10^{-7}$, which is below the regulatory target risk range of $1x10^{-6}$ to $1x10^{-4}$. No individual constituents were reported with an ELCR greater than $1x10^{-6}$ (Tables C-49 and C-50).

Soil Stockpile Area. The HI for noncancer effects was not calculated because none of the constituents has an associated reference dose. The cumulative ELCR from all carcinogenic COPCs is $2x10^{-8}$, which is below the regulatory target risk range of $1x10^{-6}$ to $1x10^{-4}$. No individual constituents were reported with an ELCR greater than $1x10^{-6}$ (Tables C-51 and C-52).

Transformer Mounting Area. The HI for noncancer effects was not calculated because none of the constituents has an associated reference dose. The cumulative ELCR from all carcinogenic COPCs is $5x10^{-7}$, which is below the regulatory target risk range of $1x10^{-6}$ to $1x10^{-4}$. No individual constituents were reported with an ELCR greater than $1x10^{-6}$ (Tables C-53 and C-54).

Entire Area (all eight areas). The HI for noncancer effects was 0.01, which is below the regulatory threshold value of 1.0. The cumulative ELCR from all carcinogenic COPCs is $3x10^{-7}$, which is below the regulatory target risk range of $1x10^{-6}$ to $1x10^{-4}$. No individual constituents were reported with an ELCR greater than $1x10^{-6}$ (Tables C-37 and C-38).

5.2.1.4 Hypothetical Future Residential Scenario

Building 35-752. The HI for noncancer effects is 0.005, which is less than the regulatory threshold value of 1.0. The cumulative ELCR from all carcinogenic COPCs is $3x10^{-5}$, which is within the regulatory target risk range of $1x10^{-6}$ to $1x10^{-4}$. The primary contributors to risk include PCB-1260 (Aroclor 1260) ($2x10^{-5}$; 94 percent contribution) and dieldrin ($2x10^{-6}$; 6 percent contribution) (Tables C-57 and C-58).

Burn Pit Area. The HI for noncancer effects is 0.0004, which is below the regulatory threshold value of 1.0. The cumulative ELCR from all carcinogenic COPCs is $4x10^{-7}$, which is below the regulatory target risk threshold of $1x10^{-6}$. No individual constituents were reported with an ELCR greater than $1x10^{-6}$) (Tables C-59 and C-60).

Cooling Pond Area. The HI for noncancer effects is 0.007, which is below the regulatory threshold value of 1.0. The cumulative ELCR from all carcinogenic COPCs is $1x10^{-5}$, which within the regulatory target risk range of $1x10^{-6}$ to $1x10^{-4}$. The primary contributors to risk include and PCB-1260 (Aroclor 1260) ($5x10^{-6}$; 46 percent contribution), benzo(a)pyrene ($3x10^{-6}$; 28 percent contribution) and dibenze(a,h)anthracene ($1x10^{-6}$; 9 percent contribution) (Tables C-61 and C-62).

Former Drum Accumulation Area. The HI for noncancer effects is 0.2, which is below the regulatory threshold value of 1.0. The cumulative ELCR from all carcinogenic COPCs is $4x10^{-5}$, which is within the regulatory target risk range of $1x10^{-6}$ to $1x10^{-4}$. The primary contributors to risk include PCB-1260 (Aroclor 1260) ($4x10^{-5}$; 94 percent contribution) and benzo(a)pyrene ($2x10^{-6}$; 4 percent contribution) (Tables C-63 and C-64).

Former Tank Location. The HI for noncancer effects is 0.00008, which is below the regulatory threshold value of 1.0. The cumulative ELCR from all carcinogenic COPCs is $9x10^{-8}$, which is below the regulatory target risk range of $1x10^{-6}$ to $1x10^{-4}$. No individual constituents were reported with an ELCR greater than $1x10^{-6}$) (Tables C-65 and C-66).

Periphery Road. The HI for noncancer effects was not calculated because none of the constituents has an associated reference dose. The cumulative ELCR from all carcinogenic

COPCs is $6x10^{-6}$, which is within the regulatory target risk range of $1x10^{-6}$ to $1x10^{-4}$. The primary contributors to risk include PCB-1260 (Aroclor 1260) ($5x10^{-6}$; 73 percent contribution) and total TCDD-toxicity equivalent quotient (TEQ) ($2x10^{-6}$; 27 percent contribution) (Tables C-67 and C-68). Toxicity equivalence factors used for calculating TEQ concentrations for dioxins/furans were as proposed by the World Health Organization (Van den Berg et al., 1998).

Soil Stockpile Area. The HI for noncancer effects was not calculated because none of the constituents has an associated reference dose. The cumulative ELCR from all carcinogenic COPCs is $1x10^{-6}$, which is within the regulatory target risk range of $1x10^{-6}$ to $1x10^{-4}$. No individual constituents were reported with an ELCR greater than $1x10^{-6}$ (Tables C-69 and C-70).

Transformer Mounting Area. The HI for noncancer effects was not calculated because none of the constituents has an associated reference dose. The cumulative ELCR from all carcinogenic COPCs is $3x10^{-5}$, which is within the regulatory target risk range of $1x10^{-6}$ to $1x10^{-4}$. The primary contributors to risk are PCB-1260 (Aroclor 1260) ($3x10^{-5}$; 91 percent contribution) and total TCDD-TEQ ($3x10^{-6}$; 9 percent contribution) (Tables C-71 and C-72).

Entire Area (all eight areas). The HI for noncancer effects was 0.2, which is below the regulatory threshold value of 1.0. The cumulative ELCR from all carcinogenic COPCs is $2x10^{-5}$, which is within the regulatory target risk range of $1x10^{-6}$ to $1x10^{-4}$. The primary contributors to risk are PCB-1260 (Aroclor 1260) ($1x10^{-5}$; 70 percent contribution), benzo(a)pyrene ($2x10^{-6}$; 10 percent contribution), and total TCDD-TEQ ($1x10^{-6}$; 8 percent contribution) (Tables C-55 and C-56).

5.2.1.5 Onsite Excavation Worker

Building 35-752. The HI for noncancer effects is 0.0003, which is below the regulatory threshold value of 1.0. The cumulative ELCR from all carcinogenic COPCs is $8x10^{-7}$, which is within the regulatory target risk range of $1x10^{-6}$ to $1x10^{-4}$. . No individual constituents were reported with an ELCR greater than $1x10^{-6}$ (Tables C-75 and C-76).

Burn Pit Area. The HI for noncancer effects is 0.0005, which is below the regulatory threshold value of 1.0. The cumulative ELCR from all carcinogenic COPCs is $6x10^{-8}$, which is below the regulatory target risk range of $1x10^{-6}$ to $1x10^{-4}$. No individual constituents were reported with an ELCR greater than $1x10^{-6}$ (Tables C-77 and C-78).

Cooling Pond Area. The HI for noncancer effects is 0.0005, which is below the regulatory threshold value of 1.0. The cumulative ELCR from all carcinogenic COPCs is $6x10^{-7}$, which is within the regulatory target risk range of $1x10^{-6}$ to $1x10^{-4}$. . No individual constituents were reported with an ELCR greater than $1x10^{-6}$ (Tables C-79 and C-80).

Former Drum Accumulation Area. The HI for noncancer effects is 0.02, which is below the regulatory threshold value of 1.0. The cumulative ELCR from all carcinogenic COPCs is $4x10^{-7}$, which is below the regulatory target risk range of $1x10^{-6}$ to $1x10^{-4}$. No individual constituents were reported with an ELCR greater than $1.0x\ 10^{-6}$ (Tables C-81 and C-82).

Former Tank Location. The HI for noncancer effects is 0.00008, which is below the regulatory threshold value of 1.0. The cumulative ELCR from all carcinogenic COPCs is $2x10^{-7}$, which is

below the regulatory target risk range of $1x10^{-6}$ to $1x10^{-4}$. No individual constituents were reported with an ELCR greater than $1x10^{-6}$ (Tables C-83 and C-84).

Periphery Road. The HI for noncancer effects was not calculated because none of the constituents has an associated reference dose. The cumulative ELCR from all carcinogenic COPCs is $9x10^{-8}$, which is below the regulatory target risk range of $1x10^{-6}$ to $1x10^{-4}$. No individual constituents were reported with an ELCR greater than $1x10^{-6}$ (Tables C-85 and C-86).

Soil Stockpile Area. The HI for noncancer effects was not calculated because none of the constituents has an associated reference dose. The cumulative ELCR from all carcinogenic COPCs is $3x10^{-8}$, which is below the regulatory target risk range of $1x10^{-6}$ to $1x10^{-4}$. No individual constituents were reported with an ELCR greater than $1x10^{-6}$ (Tables C-87 and C-88).

Transformer Mounting Area. The HI for noncancer effects was not calculated because none of the constituents has an associated reference dose. The cumulative ELCR from all carcinogenic COPCs is $4x10^{-6}$, which is within the regulatory target risk range of $1x10^{-6}$ to $1x10^{-4}$. The primary contributor to risk is PCB-1260 (Aroclor 1260) ($4x10^{-6}$; 99 percent contribution) (Tables C-89 and C-90).

Entire Area (all eight areas). The HI for noncancer effects was 0.03, which is below the regulatory threshold value of 1.0. The cumulative ELCR from all carcinogenic COPCs is $4x10^{-7}$, which is below the regulatory target risk range of $1x10^{-6}$ to $1x10^{-4}$. No individual constituents were reported with an ELCR greater than $1x10^{-6}$ (Tables C-73 and C-74).

5.2.2 Groundwater Risk Estimates for the Building 35-752 Area

This section summarizes the groundwater risk estimates for the Building 35-752 area. The beneficial uses of groundwater at OUE, discussed in Section 3.1.2, indicate the potential for consumption of deeper groundwater. To address this possibility, this HHRA considers a hypothetical future residential exposure scenario for groundwater, with groundwater from the shallow zone conservatively evaluated assuming a residential scenario because of potential for interconnection with the deeper zones. The COPCs identified for groundwater are described in Section 2 and provided in Table 2-1.

Seven wells were evaluated at the Building 35-752 site (AP-2982, AP-2983, AP-2987, AP-3231, AP-3232, AP-3458, and AP-3503) (Figure 2-2). The noncancer HI and ELCR estimates for these wells are summarized in Table 5-6, along with the primary risk contributors for each well. (A primary risk contributor is defined as any constituent with a chemical-specific ELCR of greater than 10^{-6} or HQ greater than 1.0.) Appendix C provides risk calculation data tables (Tables C-91 through C-106).

The cumulative ELCR estimates for seven wells located at the Building 35-752 area ranged from $6x10^{-7}$ to $5x10^{-5}$, all within or below the regulatory target risk range of $1x10^{-6}$ to $1x10^{-4}$. The primary contributors to risk (chemicals with ELCR greater than 10^{-6}) at these monitoring wells include the following:

- Benzene
- PCBs (Aroclor 1260)

Table 5-6
Summary of Risk Estimates for Building 35-752 Groundwater
Hypothetical Future Residential Scenario
OUE, Fort Richardson, Alaska

Groundwater Well	Exposure Route	ELCR	HI	Primary Contributor to Total ELCR[a]	Primary Contributors to Total HI[a]
All groundwater at Building 35-752 area	Ingestion	1.6E-05	0.3	Benzene ELCR=1.5E-05 (32%)	1,2,4-Trimethylbenzene HQ=5.0 (38%)
	Dermal	1.4E-05	0.03	PCB Aroclor-1260 ELCR=1.4E-05 (30%)	1,3,5-Trimethylbenzene HQ=4.6 (35%)
	Inhalation	1.8E-05	13	Vinyl Chlroide ELCR=7.2E-06 (15%)	Naphthalene HQ=1.5 (11%)
	Total	4.8E-05	13	Trichloroethylene ELCR=5.3E-06 (11%)	
AP-2982	Ingestion	2.4E-06	0.2	Benzene ELCR=8.2E-06 (94%)	1,2,4-Trimethylbenzene HQ=5.0 (40%)
	Dermal	7.1E-08	0.02		1,3,5-Trimethylbenzene HQ=4.6 (36%)
	Inhalation	6.3E-06	12		Naphthalene HQ=1.5 (12%)
	Total	8.7E-06	13		
AP-2983	Ingestion	1.5E-06	0.016	bis-(2-Ethylhexyl)phthalate ELCR=1.5E-06 (80%)	--
	Dermal	7.4E-08	0.00072		
	Inhalation	2.7E-07	0.031		
	Total	1.9E-06	0.047		
AP-2987	Ingestion	6.8E-06	0.1	PCB Aroclor-1260 ELCR=2.2E-05 (56%)	1,2,4-Trimethylbenzene HQ=1.7 (54%)
	Dermal	2.0E-05	0.007	Benzene ELCR=1.5E-05 (39%)	
	Inhalation	1.2E-05	3.0		
	Total	4.0E-05	3.1		
AP-3231	Ingestion	2.4E-06	0.05	Trichloroethylene ELCR=5.3E-06 (63%)	--
	Dermal	4.1E-08	0.001	Chloromethane ELCR=2.7E-06 (32%)	
	Inhalation	6.0E-06	0.31		
	Total	8.5E-06	0.36		
AP-3232	Ingestion	1.6E-07	0.01	--	--
	Dermal	4.1E-09	0.0002		
	Inhalation	4.4E-07	0.061		
	Total	6.1E-07	0.07		
AP-3458	Ingestion	4.9E-05	0.1	Methylene Chloride ELCR=3.9E-05 (74%)	--
	Dermal	5.6E-07	0.004	Vinyl Chloride ELCR=1.1E-05 (21%)	
	Inhalation	2.6E-06	0.12	Trichloroethylene ELCR=1.7E-06 (3%)	
	Total	5.2E-05	0.2		
AP-3503	Ingestion	6.3E-07	0.007	Tetrachloroethylene ELCR=1.0E-06 (66%)	--
	Dermal	3.6E-08	0.0003		
	Inhalation	8.6E-07	0.025		
	Total	1.5E-06	0.033		

[a] Primary contributors for groundwater are listed for constituents with ELCR > 10^{-6} or HQ > 1.0.

- bis(2-ethylhexyl)phthalate
- Chloromethane
- Methylene chloride
- Trichloroethylene
- Vinyl chloride
- Tetrachloroethylene

The HIs for the seven wells located at Building 35-752 ranged from 0.03 to 13. The HI at two of these wells (AP-2982 and AP-2987) exceed the regulatory threshold value of 1.0. The primary contributors to the noncancer HI (chemicals with HQ greater than 1.0) include the following:

- 1,2,4-trimethylbenzene
- 1,3,5-trimethylbenzene
- Naphthalene

These HI estimates should be interpreted in light of the uncertainties associated with the toxicology (for trimethylbenzenes) and the groundwater sample turbidity that could bias groundwater concentrations. These factors are discussed in more detail in Section 6.

For the hypothetical residential scenario at Building 35-752, the total multipathway ELCR (including potential exposure to both sitewide groundwater and sitewide soil) is estimated to be 6×10^{-5}. The total multipathway HI (including both groundwater and site soil) is estimated to be 13.

5.3 Summary of Risk Estimates for the Armored Vehicle Maintenance Area Site

This section summarizes the risk estimates for the exposure scenarios considered for the AVMA site. Surface soil samples were evaluated for the current site-specific worker, the future industrial worker, the onsite trespasser, and the hypothetical future resident exposure scenarios. Subsurface soil samples were evaluated for the onsite excavation worker scenario. Well-specific groundwater samples were evaluated for the hypothetical future residential scenario. The risk estimates for all of these scenarios are representative of current and future site-use conditions and are summarized in the following subsections.

The COPCs identified for the AVMA site are described in Section 2 and listed in Table 2-2. Risk estimates for each exposure scenario considered are provided for the incidental ingestion, dermal, and inhalation routes, as well as cumulative risks across all exposure routes. Appendix C contains the risk calculation data sheets used to develop the risk summary tables for each of the soil exposure scenarios.

5.3.1 Soil Risk Estimates for the Armored Vehicle Maintenance Area Site

Table 5-7 summarizes the noncancer and ELCR estimates for the surface and subsurface soil exposure scenarios. Appendix C provides the risk calculation data tables for each exposure scenario (Tables C-107 through C-116). A comparison of lead concentrations to the Region IX PRGs indicated that none exceeded the Region IX industrial PRG of 750 mg/kg or

Table 5-7
Summary of Risk Estimates for Soil at AVMA
OUE, Fort Richardson, Alaska

Exposure Scenario	Exposure Route	ELCR	HI	Primary Contributor to Total ELCR[a]
Current Site-Specific Worker (Surface Soil)	Ingestion	2.9E-07	0.15	--
	Dermal	4.9E-07	0.0003	
	Inhalation	1.4E-09	0.015	
	Total	5.4E-07	0.17	
Onsite Industrial Worker (Surface Soil)	Ingestion	2.4E-06	0.15	Benzo(a)pyrene ELCR=3.1E-06 (69%)
	Dermal	2.1E-06	0.0003	
	Inhalation	1.2E-08	0.015	
	Total	4.5E-06	0.17	
Onsite Trespasser (Surface Soil)	Ingestion	1.8E-07	0.019	--
	Dermal	9.3E-08	0.0000026	
	Inhalation	2.3E-08	0.000019	
	Total	3.0E-07	0.019	
Hypothetical Future Resident (Surface Soil)	Ingestion	1.0E-05	0.54	Benzo(a)pyrene ELCR=1.0E-05 (69%)
	Inhalation	4.2E-06	0.0006	Dibenz(a,h)anthracene ELCR=1.7E-06 (11%)
	Dermal	2.3E-07	0.024	Benzo(a)anthracene ELCR=1.1E-06 (8%)
	Total	1.5E-05	0.56	Benzo(b)fluoranthene ELCR=1.0E-06 (7%)
Excavation Worker (Subsurface Soil)	Ingestion	2.4E-06	0.038	Benzo(a)pyrene ELCR=1.1E-06 (38%)
	Dermal	6.1E-07	0.0000064	Benzo(a)anthracene ELCR=1.1E-06 (36%)
	Inhalation	4.5E-08	0.000047	
	Total	3.0E-06	0.038	

[a] Primary contributors for soil are listed for constituents with ELCR > 10^{-6}

the residential PRG of 400 mg/kg. The maximum detected lead concentration in soil at the AVMA site was 50 mg/kg.

5.3.1.1 Current Site-Specific Worker

The HI for noncancer effects is 0.2, which is below the regulatory threshold value of 1.0. The cumulative ELCR from all carcinogenic COPCs is $5x10^{-7}$, which is below the regulatory target risk range of $1x10^{-6}$ to $1x10^{-4}$. No individual constituents were reported with an ELCR greater than $1x10^{-6}$ (Tables C-107 and C-108).

5.3.1.2 Onsite Industrial Worker Scenario

The HI for noncancer effects is 0.2, which is below the regulatory threshold value of 1.0. The cumulative ELCR from all carcinogenic COPCs is $5x10^{-6}$, which is within the regulatory target risk range of $1x10^{-6}$ to $1x10^{-4}$. The primary contributor to risk is benzo(a)pyrene ($3x10^{-6}$; 69 percent contribution) (Tables C-109 and C-110).

5.3.1.3 Onsite Trespasser Scenario

The HI for noncancer effects is 0.02, which is below the regulatory threshold value of 1.0. The cumulative ELCR from all carcinogenic COPCs is $3x10^{-7}$, which is below the regulatory target risk range of $1x10^{-6}$ to $1x10^{-4}$. No individual constituents were reported with an ELCR greater than $1x10^{-6}$ (Tables C-111 and C-112).

5.3.1.4 Hypothetical Future Residential Scenario

The HI for noncancer effects is 0.6, which is below the regulatory threshold value of 1.0. The cumulative ELCR from all carcinogenic COPCs is $2x10^{-5}$, which is within the regulatory target risk range of $1x10^{-6}$ to $1x10^{-4}$. The primary contributors to risk include benzo(a)pyrene ($1x10^{-5}$; 69 percent contribution), dibenz(a,h)anthracene ($2x10^{-6}$; 11 percent contribution), benzo(a)anthracene ($1x10^{-6}$; 8 percent contribution), and benzo(b)fluoranthene ($1x10^{-6}$; 7 percent contribution) (Tables C-113 and C-114).

5.3.1.5 Onsite Excavation Worker

The HI for noncancer effects is 0.04, which is below the regulatory threshold value of 1.0. The cumulative ELCR from all carcinogenic COPCs is $3x10^{-6}$, which is within the regulatory target risk range of $1x10^{-6}$ to $1x10^{-4}$. The primary contributors to risk are benzo(a)pyrene ($1x10^{-6}$; 38 percent contribution) and benzo(a)anthracene ($1x10^{-6}$; 36 percent contribution) (Tables C-115 and C-116).

5.3.2 Summary of Groundwater Risk Estimates for the Armored Vehicle Maintenance Area Site

This section summarizes the groundwater risk estimates for the AVMA site. The beneficial uses of groundwater at OUE (Section 3.1.2) indicate the potential for consumption of deeper groundwater. To address this possibility, this HHRA considers a hypothetical future residential exposure scenario for groundwater, with groundwater from the shallow zone conservatively evaluated assuming a residential scenario because of the potential for interconnection with the deeper zones. The COPCs identified for groundwater are described in Section 2 and provided in Table 2-2.

A total of 34 wells was evaluated at the AVMA site (Figure 2-3). Table 5-8 summarizes the noncancer HI and ELCR estimates for these wells, along with the primary risk contributors for each well. (A primary risk contributor is defined as any constituent with a chemical-specific ELCR of greater than 10^{-6} or HQ greater than 1.0.) Appendix C provides the risk calculation data tables (Tables C-117 through C-188). A comparison of lead EPCs to the EPA drinking water action level indicated that three wells exceeded the action level of 0.015 mg/L. The maximum detected lead EPC in groundwater at the AVMA site was 0.180 mg/L.

The cumulative ELCR estimates for 34 wells located at the AVMA site ranged from $3x10^{-7}$ to $3x10^{-3}$. Of these, 25 are within or below the regulatory target risk range of $1x10^{-6}$ to $1x10^{-4}$, and 8 exceed $1x10^{-4}$. The primary contributors to risk (chemicals with ELCR greater than 10^{-6}) at these eight monitoring wells include the following:

- Arsenic
- Carcinogenic polycyclic aromatic hydrocarbons
- Bromodichloromethane
- Carbon tetrachloride
- Tetrachloroethylene

The HIs for the 34 wells located at the AVMA site ranged from 0.001 to 249. The HI at 11 of these wells (Table 5-8) exceeds the regulatory threshold value of 1.0. The primary contributors to the noncancer HI (chemicals with HQ greater than 1.0) include the following:

- Aluminum
- Antimony
- Arsenic
- Chloroform
- Chromium
- Iron
- Manganese

As discussed in Section 3, a majority of the AVMA wells in the shallow, unconfined aquifer could not be developed using standard approaches due to the high silt load observed in water in the wells. Some were developed using a bailer because available pumps were not capable of carrying the high silt loads from the depths to water in the wells. Generally, the wells installed in the shallow, unconfined aquifer were turbid, contained little standing water, and yielded little water. The HI estimates for AVMA groundwater should be interpreted in light of the uncertainties associated with groundwater sample turbidity that could bias groundwater concentrations. These factors are discussed in more detail in Section 6.

For the hypothetical residential scenario at AVMA, the total multipathway ELCR (including potential exposure to both sitewide groundwater and sitewide soil) is estimated to be $6x10^{-4}$. The total multipathway HI (including both groundwater and site soil) is estimated to be 218. As previously noted, this high HI estimate is largely caused by the presence of suspended particulates in some of the groundwater samples.

Table 5-8
Summary of Risk Estimates for Groundwater at AVMA
Hypothetical Future Residential Scenario
OUE, Fort Richardson, Alaska

Groundwater Well	Exposure Route	ELCR	HI	Primary Contributor to Total ELCR[a]	Primary Contributors to Total HI[a]
All AVMA Groundwater	Ingestion	5.1E-04	213	Arsenic ELCR=4.8E-04 (85%)	Iron HQ=139 (64%)
	Dermal	1.8E-05	4.4	Tetrachloroethylene (PCE) ELCR=6.1E-05 (11%)	Manganese HQ=33 (15%)
	Inhalation	3.1E-05	0.48		Aluminum HQ=21 (10%)
	Total	5.6E-04	218		
AP-2980	Ingestion	--	0.020	--	Chloroform HQ=1.1 (100%)
	Dermal	--	0.00027		
	Inhalation	--	1.1		
	Total	--	1.2		
AP-3441	Ingestion	6.7E-07	0.0081	Methlyene Chloride ELCR=1.4E-06 (100%)	--
	Dermal	4.8E-09	0.000092		
	Inhalation	7.3E-07	0.26		
	Total	1.4E-06	0.27		
AP-3467	Ingestion	5.4E-07	0.0086	--	--
	Dermal	2.4E-08	0.00030		
	Inhalation	9.4E-08	0.012		
	Total	6.6E-07	0.021		
AP-3468	Ingestion	6.6E-05	8.8	Tetrachloroethylene (PCE) ELCR=1.3E-04 (98%)	Chromium HQ=9.3 (88%)
	Inhalation	4.4E-06	1.3	Carbon Tetrachloride ELCR=3.0E-06 (2%)	
	Dermal	6.4E-05	0.36		
	Total	1.3E-04	11		
AP-3483	Ingestion	7.1E-06	0.0019	Dibenz(a,h)anthracene ELCR=2.5E-05 (92%)	--
	Dermal	1.9E-05	0.000014	Benzo(b)fluoranthene ELCR=1.5E-06 (5%)	
	Inhalation	4.0E-07	0.00067		
	Total	2.7E-05	0.0026		
AP-3532	Ingestion	4.5E-06	0.11	Carbon Tetrachloride ELCR=1.3E-05 (96%)	--
	Dermal	1.4E-07	0.0036		
	Inhalation	9.0E-06	0.60		
	Total	1.4E-05	0.71		
AP-3534	Ingestion	3.0E-05	0.12	Tetrachloroethylene (PCE) ELCR=5.2E-05 (77%)	--
	Dermal	1.3E-05	0.008	Dibenz(a,h)anthracene ELCR=1.4E-05 (21%)	
	Inhalation	2.5E-05	0.034	Indeno(1,2,3-c,d)pyrene ELCR=1.4E-06 (2%)	
	Total	6.7E-05	0.16		
AP-3650	Ingestion	7.3E-07	0.02	Carbon Tetrachloride ELCR=2.1E-06 (95%)	--
	Dermal	2.2E-08	0.001		
	Inhalation	1.4E-06	0.21		
	Total	2.2E-06	0.23		
AP-3772	Ingestion	8.8E-07	0.0028	Chloromethane ELCR=1.2E-06 (51%)	--
	Dermal	6.1E-09	0.000020	Methylene Chloride ELCR=1.1E-06 (49%)	
	Inhalation	1.4E-06	0.0046		
	Total	2.3E-06	0.0074		
AP-3774	Ingestion	5.5E-07	0.012	Carbon Tetrachloride ELCR=1.1E-06 (72%)	--
	Dermal	2.5E-08	0.00042		
	Inhalation	9.0E-07	0.13		
	Total	1.5E-06	0.14		

Table 5-8
Summary of Risk Estimates for Groundwater at AVMA
Hypothetical Future Residential Scenario
OUE, Fort Richardson, Alaska

Groundwater Well	Exposure Route	ELCR	HI	Primary Contributor to Total ELCR[a]	Primary Contributors to Total HI[a]
AP-3775	Ingestion	7.3E-07	0.0035	--	--
	Dermal	3.3E-08	0.00016		
	Inhalation	7.3E-07	0.0016		
	Total	1.5E-06	0.0053		
AP-3776	Ingestion	1.2E-06	1.0	Carbon Tetrachloride ELCR=2.1E-06 (66%)	Chromium HQ=1.1 (88%)
	Dermal	5.7E-08	0.16	Tetrachloroethylene (PCE) ELCR=1.1E-06 (34%)	
	Inhalation	1.9E-06	0.13		
	Total	3.1E-06	1.3		
AP-3789	Ingestion	6.4E-06	0.03	Tetrachloroethylene (PCE) ELCR=1.3E-05 (100%)	--
	Dermal	4.3E-07	0.002		
	Inhalation	6.2E-06	0.0088		
	Total	1.3E-05	0.04		
AP-3790	Ingestion	--	0.0056	--	--
	Dermal	--	0.00011		
	Inhalation	--	0.26		
	Total	--	0.27		
AP-3870	Ingestion	4.8E-07	0.015	Carbon Tetrachloride ELCR=1.5E-06 (100%)	--
	Dermal	1.6E-08	0.00049		
	Inhalation	9.8E-07	0.14		
	Total	1.5E-06	0.15		
AP-3871	Ingestion	1.6E-06	1.4	Carbon Tetrachloride ELCR=3.3E-06 (83%)	Antimony HQ=1.6 (63%)
	Dermal	5.7E-08	0.19		
	Inhalation	2.4E-06	0.87		
	Total	4.0E-06	2.5		
AP-3872	Ingestion	5.0E-07	0.01	--	--
	Dermal	2.4E-08	0.0005		
	Inhalation	4.7E-08	0.30		
	Total	5.7E-07	0.32		
AP-3893	Ingestion	4.9E-05	0.0002	Dibenz(a,h)anthracene ELCR=1.1E-04 (64%)	--
	Dermal	1.1E-04	0.00001	Benzo(a)pyrene ELCR=4.5E-05 (27%)	
	Inhalation	--	0.00062	Indeno(1,2,3-c,d)pyrene ELCR=7.2E-06 (4%)	
	Total	1.6E-04	0.001	Benzo(b)fluoranthene ELCR=5.8E-06 (4%)	
AP-3894	Ingestion	1.2E-06	0.002	Chloromethane ELCR=3.0E-06 (81%)	--
	Dermal	8.1E-09	0.00002		
	Inhalation	2.5E-06	0.038		
	Total	3.7E-06	0.04		
AP-3895	Ingestion	7.2E-07	0.001	Chloromethane ELCR=1.6E-06 (75%)	--
	Dermal	4.9E-09	0.00001		
	Inhalation	1.4E-06	0.0055		
	Total	2.1E-06	0.007		
AP-3896	Ingestion	8.7E-04	4.5	Arsenic ELCR=8.7E-04 (100%)	Arsenic HQ=4.5 (100%)
	Dermal	1.8E-06	0.009		
	Inhalation	--	0.00049		
	Total	8.7E-04	4.5		
AP-4154	Ingestion	1.1E-07	0.001	--	--
	Dermal	8.0E-10	0.0001		
	Inhalation	1.7E-07	0.00090		
	Total	2.9E-07	0.002		

Table 5-8
Summary of Risk Estimates for Groundwater at AVMA
Hypothetical Future Residential Scenario
OUE, Fort Richardson, Alaska

Groundwater Well	Exposure Route	ELCR	HI	Primary Contributor to Total ELCR[a]	Primary Contributors to Total HI[a]
AP-4155	Ingestion	1.4E-07	0.49	--	--
	Dermal	9.9E-10	0.079		
	Inhalation	1.9E-07	0.0014		
	Total	3.3E-07	0.57		
AP-4336	Ingestion	4.9E-04	24	Arsenic ELCR=4.9E-04 (99%)	Iron HQ=14 (53%)
	Dermal	1.0E-06	0.46	Bromodichloromethane ELCR=2.3E-06 (<1%)	Aluminum HQ=3.8 (15%)
	Inhalation	2.5E-06	1.4		Arsenic HQ=2.6 (10%)
	Total	5.0E-04	26		Chromium HQ=2.6 (10%)
AP-4337	Ingestion	4.5E-04	3.3	Arsenic ELCR=4.5E-04 (98%)	Arsenic HQ=2.3 (60%)
	Dermal	1.0E-06	0.13	Carbon Tetrachloride ELCR=7.1E-06 (2%)	
	Inhalation	4.7E-06	0.47		
	Total	4.6E-04	3.9		
AP-4338	Ingestion	2.9E-03	243	Arsenic ELCR=2.9E-03 (100%)	Iron HQ=139 (56%)
	Dermal	5.9E-06	6.2		Manganese HQ=33 (13%)
	Inhalation	6.6E-07	0.65		Chromium HQ=23 (9%)
	Total	2.9E-03	249		Aluminum HQ=21 (8%)
					Arsenic HQ=15 (6%)
AP-4339	Ingestion	4.5E-07	7.3	--	Chromium HQ=7.4 (87%)
	Dermal	1.3E-08	1.0		
	Inhalation	9.3E-07	0.18		
	Total	1.4E-06	8.5		
AP-4341	Ingestion	2.2E-06	0.1	Tetrachloroethylene (PCE) ELCR=2.8E-06 (54%)	--
	Dermal	1.2E-07	0.003	Carbon Tetrachloride ELCR=2.2E-06 (43%)	
	Inhalation	2.9E-06	0.11		
	Total	5.2E-06	0.2		
AP-4342 (using total metals)	Ingestion	5.7E-05	19	Tetrachloroethylene (PCE) ELCR=1.1E-04 (95%)	Iron HQ=14 (68%)
	Dermal	3.7E-06	0.39	Carbon Tetrachloride ELCR=5.8E-06 (5%)	Aluminum HQ=2.5 (12%)
	Inhalation	5.6E-05	0.38		Chromium HQ=2.4 (12%)
	Total	1.2E-04	20		
AP-4342 (using dissolved metals)	Ingestion	5.7E-05	0.46	Tetrachloroethylene (PCE) ELCR=1.1E-04 (95%)	--
	Dermal	3.7E-06	0.025	Carbon Tetrachloride ELCR=5.8E-06 (5%)	
	Inhalation	5.6E-05	0.38		
	Total	1.2E-04	0.86		
AP-4411	Ingestion	1.2E-05	0.066	Tetrachloroethylene (PCE) ELCR=2.2E-05 (92%)	--
	Dermal	7.6E-07	0.0038	Carbon Tetrachloride ELCR=1.9E-06 (8%)	
	Inhalation	1.2E-05	0.10		
	Total	2.4E-05	0.17		
AP-4413	Ingestion	8.1E-05	0.44	Tetrachloroethylene (PCE) ELCR=1.6E-04 (94%)	--
	Dermal	5.3E-06	0.026	Carbon Tetrachloride ELCR=1.1E-05 (6%)	
	Inhalation	8.1E-05	0.64		
	Total	1.7E-04	1.1		
AP-4414	Ingestion	7.7E-08	0.00015	--	--
	Dermal	5.2E-10	0.000015		
	Inhalation	1.9E-07	0.019		
	Total	2.7E-07	0.019		

Table 5-8
Summary of Risk Estimates for Groundwater at AVMA
Hypothetical Future Residential Scenario
OUE, Fort Richardson, Alaska

Groundwater Well	Exposure Route	ELCR	HI	Primary Contributor to Total ELCR[a]	Primary Contributors to Total HI[a]
AP-4415	Ingestion	3.1E-07	0.0016	--	--
	Dermal	2.1E-08	0.00010		
	Inhalation	3.0E-07	0.0077		
	Total	6.3E-07	0.0094		
AP-4416	Ingestion	3.1E-07	0.0034	Benzene ELCR=1.1E-06 (100%)	--
	Dermal	9.5E-09	0.00010		
	Inhalation	8.2E-07	0.012		
	Total	1.1E-06	0.015		

[a] Primary contributors for groundwater are listed for constituents with ELCR > 10-6 or HQ > 1.0 · The five primary contributors are listed, if more than five. See individual tables for all constituents.

SECTION 6

Identification of Major Uncertainties and Assumptions

Risk assessment as a science is subject to uncertainty. The sources of uncertainty are generally associated with the following:

- Sampling and analysis
- Chemical fate and transport
- Exposure estimation
- Toxicological data
- Risk characterization

These sources of uncertainty are discussed in the following subsections, and are summarized in Table 6-1.

6.1 Uncertainty Associated with Sampling and Analysis

Uncertainty associated with sampling and analysis includes the inherent variability (standard error) in the analysis, representativeness of the samples, sampling errors, and heterogeneity of the sample matrix. The quality assurance (QA)/quality control (QC) program used during the RI serves to maintain acceptable precision and accuracy in measurement of chemical concentrations, but it cannot eliminate all sampling and analysis errors. The degree to which sample collection and analyses reflect real exposure point concentrations will influence the reliability of the risk estimates. Many of the sample data used for this HHRA were generated from samples collected at known or suspected areas of concern, rather than randomly. Because exposure is not likely to be limited solely to higher concentration areas, risk estimates for these areas may be conservatively high.

In addition, the statistical methods used to identify potential exposure point concentrations have inherent uncertainty. The 95 percent UCL was selected as the exposure concentration to project the high end of potential exposure and could, in some instances, overestimate exposure. In some cases, sample sizes were small, and exposure estimates defaulted to maximum detected concentrations (surface soil at the Burn Pit Area), also adding to conservatism.

A major uncertainty associated with the groundwater evaluation is the inclusion of unfiltered samples. Due to the inherent turbidity of the shallow groundwater and the sampling methodology used, many groundwater samples contained significant levels of suspended particulates, particularly at the AVMA site. The presence of suspended particulates, and the correlation with total metal concentrations, is documented in the RI report, Section 4. To evaluate the potential significance if this factor on the HHRA, risks were estimated at well AP-4342 using both filtered and unfiltered samples. These results are provided in Table 5-8 (AVMA well summary table) and in Appendix C. These results indicate that when suspended particulates are removed from the sample, the HI estimate (largely due to metals) is about

TABLE 6-1
Uncertainties Associated with Human Health Risk Estimations

Uncertainty Factor	Effects of Uncertainty	Comment
Environmental Sampling and Analysis		
Estimates of chemical concentrations	May under- or overestimate risk	Sampling errors, sample representativeness, and variability in chemical analyses will affect chemical concentrations. Available analytical data may not accurately reflect site conditions. Chemical concentrations may change as a result of migration or degradation.
Fate and Transport		
Source concentrations assumed constant over time	May underestimate or overestimate risk	Does not account for environmental fate, transport, or transfer, which may alter contaminant concentrations. Concentrations may decrease, but contaminated areas may increase.
Exposure Assessment		
Exposure point concentrations	May overestimate risks	Use of upper confidence limits and maximum detected concentrations will likely overestimate site risks.
Exposure assumptions	May under- or overestimate risk	Assumptions regarding media intake, population characteristics, and exposure patterns may not characterize exposures.
Use of applied dose to estimate risks	May over- or underestimate risks	Assumes that the absorption of the chemical is the same as it was in the study that derived the toxicity value. Assumes that absorption is equivalent across species (animal to humans). Absorption may vary with age and species.
Population characteristics	May over- or underestimate risks	Assumes weight, lifespan, and ingestion rate are potentially representative for a potentially exposed population.
Intake	May underestimate risks	Assumes all intake of COPCs is from the exposure medium being evaluated (no relative source contribution).
Toxicity Assessment		
Slope factor	May overestimate risks	Slope factors are upperbound upper confidence limits derived from a linearized model. In general, risks are likely to be overestimated. Dioxin risks are currently being reassessed, which may over- or underestimate risks.
Toxicity values derived from animal studies	May over- or underestimate risks	Extrapolation from animal to humans may induce error because of differences in pharmacokinetics, target organs, and population variability.
Toxicity values derived primarily from high doses (most exposures are at low doses)	May over- or underestimate risks	Assumes linearity at low doses. Tends to have conservative exposure assumptions.

TABLE 6-1
Uncertainties Associated with Human Health Risk Estimations

Uncertainty Factor	Effects of Uncertainty	Comment
Dermal toxicity values	May over- or underestimate risks	No dermal toxicity values are available, oral slope factors and reference doses are adjusted by a gastrointestinal absorption value to represent the absorption efficiency across the gastrointestinal tract.
Toxicity values	May over- or underestimate risks	Not all values represent the same degree of certainty. All are subject to change as new evidence becomes available.
Toxicity data not available for all constituents	Risks could not be estimated	Use of surrogate toxicity factors for structurally similar compounds may over- or underestimate risks.
Some toxicity values derived from short-term tests to predict chronic exposures	May over- or underestimate risks	Assumes that the dose-response observed from short-term exposure to high concentrations is similar to exposure to low concentration environmental exposures. Uncertainty factors are used to ensure protectiveness.
Toxicity values derived from homogeneous animal populations	May over- or underestimate risks	Human populations may have a wide range of sensitivities to a chemical.
Risk Estimation		
Estimation of risks across exposure routes	May under- or overestimate risk	Some exposure routes have greater uncertainty associated with their risk estimates than others.
Cumulative risk estimates	May under- or overestimate risk	Assumes additivity of risks from multiple chemicals; may have synergistic or antagonistic effects.
Cancer risk estimates (no threshold assumed)	May overestimate risks	Possibility that some thresholds do exist.
Cancer risk estimate (low dose) linearity	May overestimate risks	Response at low doses is not known.

3.4 percent of the HI estimate for unfiltered groundwater. Because of the significant difference in metals concentrations in filtered versus unfiltered samples, the risk estimates for metals in unfiltered samples may be overestimated by an order of magnitude or more.

6.2 Uncertainty Associated with Chemical Fate and Transport

This baseline HHRA makes simplifying assumptions about environmental fate and transport of COPCs in order to estimate exposure–specifically, that no chemical loss or transformation will occur. Chemical concentrations detected in site media are assumed to remain constant during the assessed exposure duration. In cases where natural attenuation processes are high, the analytical data chosen to represent exposure point concentrations may overstate actual long-term exposure levels. This uncertainty is likely to be more relevant for

organic constituents that biodegrade, such as VOCs, than for inorganic constituents, such as arsenic.

6.3 Uncertainty Associated with Exposure Assessment

Uncertainties introduced during exposure assessment include assumptions made about future land and water use and chemical intake. Future land uses at OUE are highly likely to remain military/industrial because of current zoning and surrounding uses. If uses were to change so that exposures higher than those assumed for a military/industrial setting occur, risk estimates would be proportionately higher. To due to the proximity of post housing approximately 0.5 mile east of OUE, it is plausible that residents could gain unauthorized access to the site in the future. Therefore, as a conservative estimate for site decisionmaking, a hypothetical future residential scenario is considered in this HHRA. The results from evaluation of this scenario provide a frame of reference to indicate the potential significance of future land-use changes, if any. The hypothetical future residential scenario overestimates site risk under current land-use conditions.

As indicated in the *Human Health Risk Assessment Approach Document for Operable Unit E* (CH2M HILL, 2003), it is very unlikely that shallow groundwater at OUE would be used for drinking water purposes. However, to provide a perspective for site decisionmaking, and because of the potential interconnection with the deeper drinking aquifer, a hypothetical future residential scenario was considered for shallow groundwater. The hypothetical future residential scenario overestimates site risk under current water use conditions.

The estimation of chemical intake requires many assumptions to describe potential exposure situations. There are uncertainties regarding the likelihood of exposure, frequency of contact with contaminated media, the concentration of contaminants at exposure points, and the total duration of exposure. To address this, the estimation of exposure requires numerous assumptions to describe potential exposure situations. These assumptions tend to simplify and approximate actual site conditions. In general, these assumptions are intended to be conservative and the use of upperbound (RME) exposure assumptions to estimate OUE exposures provides a bounding estimate on the true risk or hazard.

Many of the metals present in soil and groundwater are naturally occurring . Although only metals that exceeded background levels were selected as COPCs, at least some portion of the concentrations of those metals selected as COPCs can be attributed to from background. Sometimes, even naturally occurring levels of a chemical can result in a calculated risk that exceeds regulatory thresholds (for example, for arsenic). Any contribution to total risk from background should be considered when determining what risks may be attributable to site-related releases.

Although hypothetical future residents could possibly consume homegrown fruits and vegetables, exposure to site-related constituents via a food uptake pathway is considered minor. In the event that this pathway ever exists, any exposures would likely be very small when compared to the other pathways quantified in the HHRA.

6.4 Uncertainty Associated with Toxicity Assessment

Uncertainties in toxicological data can influence the reliability of risk management decisions. The toxicity values used for quantifying risk in this HHRA have varying levels of uncertainty that may affect the confidence in the resulting risk estimates. The sources may include or result from the extrapolation from high to low doses and from animals to humans; the species, gender, age, and strain differences in toxicant uptake, metabolism, organ distribution, and target site susceptibility; and the human population's variability with respect to diet, environment, activity patterns, and cultural factors.

The use of uncertainty factors in the derivation of human toxicity factors, while striving for protectiveness, may result in an overestimate of risk; however, using health-conservative assumptions throughout this process gives a margin of safety to the conclusions drawn. The levels of uncertainty for RfDs, judged by EPA on the basis of uncertainty factors and modifying factors, are listed in the IRIS database. For COPCs suspected of resulting in human cancer effects, uncertainty is in part expressed in terms of EPA's weight-of-evidence classification (Table 4.2).

EPA has not published dermal RfDs or slope factors; therefore, oral toxicity factors were adjusted to estimate absorbed dose. If the oral toxicity value was not based on an administered dose, or if the gastrointestinal absorption of a chemical was less than 50 percent, then the oral toxicity value was not adjusted. An unadjusted toxicity factor may have resulted in an underestimation of risk that was inversely proportional to the true oral absorption of the chemical. Toxicity values were not available for several constituents detected; therefore, surrogate toxicity factors for structurally similar chemicals were used (Section 4.1). Inclusion of these constituents in the HHRA may result in an overestimation of risk at the site if they are, in fact, less toxic than the selected surrogate.

EPA is currently undergoing a reevaluation of the toxicology supporting the assessment of cancer risk from exposure to TCE. A similar reassessment is being conducted for dioxins/furans. Pending these reevaluations, the cancer potency may be judged to be higher than the current values used for this HHRA. If this occurs, the risk estimates for these constituents could be as much as 30- to 40-fold higher than reported in this risk assessment.

Some of the toxicity factors used for this HHRA are considered "provisional" by EPA and therefore have more associated uncertainty. The toxicity factors for these constituents have not undergone the level of scrutiny by EPA that is generally required by IRIS; therefore, the risk estimates for 1,2,4-trimethylbenzene and 1,3,5-trimethylbenzene in groundwater at the Building 35-752 area (wells AP-2982 and AP-2987) should be interpreted with added caution.

6.5 Uncertainty Associated with Risk Characterization

In the risk characterization, the total risk of developing cancer from exposure to site contaminants is assumed to be the sum of the risk attributed to each individual contaminant. Likewise, the potential for the development of noncancer adverse effects is the sum of the HQs estimated for exposure to each individual contaminant. This approach, in accordance with EPA guidance, did not account for the possibility that constituents act synergistically or antagonistically.

SECTION 7

Conclusions and Recommendations

This HHRA was conducted in accordance with risk assessment guidance under CERCLA. The assessment results indicate that constituent concentrations detected in soil at both the Building 35-752 and AVMA sites result in noncancer HI and ELCR estimates that are within or below the regulatory target risk range of $1x10^{-6}$ to $1x10^{-4}$, or HI of 1.0. Therefore, no COPCs are identified in soil for OUE.

For groundwater at the Building 35-752 area, none of the constituent concentrations in the seven wells evaluated result in ELCR estimates that exceed the regulatory target risk range of $1x10^{-6}$ to $1x10^{-4}$. However, the HI at two of these wells (AP-2982 and AP-2987) exceed the regulatory threshold value of 1.0. The COPCs identified that are believed to be potentially due to site-related releases are as follows:

- 1,2,4-trimethylbenzene (wells AP-2982 and AP-2987)
- 1,3,5-trimethylbenzene (well AP-2982)
- Naphthalene (well AP-2982)

Therefore, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, and naphthalene at these two wells will be evaluated as part of the FS for OUE.

For groundwater at the AVMA, the cumulative ELCR estimates for 8 of the 34 wells evaluated exceeded the regulatory target risk range of $1x10^{-6}$ to $1x10^{-4}$, and the HI at 11 of these wells exceeded the regulatory threshold value of 1.0. The COPCs identified that are believed to be potentially site-related releases include the following:

- Carcinogenic PAHs (well AP-3893)
- Chloroform (well AP-2980)
- Bromodichloromethane (well AP-4336)
- Carbon tetrachloride (wells AP-3468, AP-4337, AP-4342, and AP-4413)
- Tetrachloroethylene (wells AP-3468, AP-4341, AP-4342, and AP-4413)

As discussed in Section 3, a majority of the AVMA wells in the shallow, unconfined aquifer could not be developed using standard approaches due to the high silt load observed in water in the wells. Some were developed using a bailer because available pumps were not capable of carrying the high silt loads from the depths to water in the wells. Generally, the wells installed in the shallow, unconfined aquifer were turbid, contained little standing water, and yielded little water. Because of the presence of groundwater sample turbidity that biased groundwater concentrations, the measured levels of metals in groundwater are believed to be unrelated to site releases. The remaining organic constituents will be addressed as part of the FS for OUE.

SECTION 8

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Report

Baseline Ecological Risk Assessment

Operable Unit E
Fort Richardson, Alaska

Prepared for

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April 2004

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Abbreviations

ADEC	Alaska Department of Environmental Conservation
ADF	Alaskan Defense Force
ADFG	Alaska Department of Fish and Game
AFB	Air Force Base
Army	U.S. Department of the Army
AVMA	Armored Vehicle Maintenance Area
BAF	bioaccumulation factor
BERA	Baseline Ecological Risk Assessment
bgs	below ground surface
BTAG	Biological Technical Assistance Group
BW	body weight
COEC	chemical of ecological concern
COPEC	chemical of potential ecological concern
CSM	conceptual site model
DDD	dichlorodiphenyldichloroethane
DDE	dichlorodiphenyldichloroethylene
DDT	dichlorodiphenyltrichloroethane
E&E	Ecology and Environment
EMG	ecological management goal
EPC	exposure point concentration
ERA	Ecological Risk Assessment
F	Fahrenheit
FS	feasibility study
ha	hectare
HLA	Harding Lawson Associates
HQ	hazard quotient
kg	kilogram

LOAEL	Lowest Observed Adverse Effects Level
LOEC	lowest observed effect concentration
mg	milligram
msl	mean sea level
ND	nondetect
NOAEL	No Observed Adverse Effects Level
ORNL	Oak Ridge National Laboratory
OUD	Operational Unit D
OUE	Operable Unit E
PCB	polychlorinated biphenyl
RATS	Risk Assessment Tool Set
RI	remedial investigation
RI/FS	remedial investigation/feasibility study
SLERA	Screening-Level Ecological Risk Assessment
SVOC	semivolatile organic compound
TCDD	2,3,7,8-tetrachlorodibenzo-p-dioxin
TCDF	2,3,7,8-tetrachlorodibenzofuran
TEQ	toxic equivalency quotient
TPH	total petroleum hydrocarbons
TRV	toxicity reference value
U	undetected at sample quantitation limit (the concentration given)
UCL	upper confidence limit
UJ	estimated nondetect level
USACE	U.S. Army Corps of Engineers
USEPA	U.S. Environmental Protection Agency
UST	underground storage tank
UTL	upper tolerance limit
VOC	volatile organic compound
WCC	Woodward Clyde Consultants
WWII	World War II

SECTION 1

Introduction

This report presents the results of a Baseline Ecological Risk Assessment (BERA) performed for Operable Unit E (OUE) at the U.S. Department of the Army (Army) Fort Richardson facility near Anchorage, Alaska (Figure 1-1). The post is bordered by Eagle Bay and the Knik Arm of Cook Inlet to the north, by the Chugach Mountain Range and State Park to the south and east, and by Cook Inlet to the west. This ERA identifies the chemicals, habitats, receptors of concern, and potential ecological risks posed to ecological receptors at OUE because of past or current land use activities.

All figures are located at the end of their respective sections.

1.1 Background and Objectives

Previous activities occurring on the post contributed to contamination at various sites across the facility. This BERA evaluates potential risk posed to ecological receptors at OUE as a result of site contamination. OUE is made up of two sites, the Building 35-752 Area and the Armored Vehicle Maintenance Area (AVMA), both of which are evaluated in this BERA. Contamination at Building 35-752 is a result of transformer maintenance and operation, polychlorinated biphenyl (PCB) oil burning and inadvertent discharges. Contamination at the AVMA is a result of armored vehicle washing and maintenance, buried debris, backfilled trenches, leaks, and spills.

The overall objective of this BERA is to define the existing risks to ecological receptors (i.e., to determine if chemicals released by activities on the site are causing adverse effects to ecological receptors at or adjacent to the site) using all relevant available data for OUE. OUE is mostly undeveloped with areas of open grass, fields, and wooded areas. The results of this BERA will be used to determine if receptors in habitats within OUE are at risk from site-related contamination, or if any data gaps must be filled to adequately characterize ecological risk. These evaluations will provide risk managers with information needed to achieve their ecological management goals and to help evaluate remedial alternatives.

1.2 Approach

Ecological Risk Assessments (ERAs) are conducted in phases as recommended by the U.S. Environmental Protection Agency (USEPA) (1997, 1998) and the Alaska Department of Environmental Conservation (ADEC) (2000). Each phase is more detailed and focused than the preceding one. The OUE analysis was modeled after the approach developed by USEPA (1997, 1998) and was used to assess ecological risks presented by chemicals of potential ecological concern (COPECs).

The first phase of risk assessment is the Screening-Level Ecological Risk Assessment (SLERA), which generally follows steps 1 and 2 of the Superfund program guidance (USEPA, 1997). The SLERA provides a general indication of the potential for ecological risk

and may be conducted for several purposes. These purposes include estimating the likelihood that a particular ecological risk exists, identifying the need for site-specific data collection efforts, or focusing site-specific ecological risk assessments where warranted (USEPA, 2001).

The second phase of an ERA consists of a BERA (USEPA, 2001) that follows steps 3 through 8 of the Superfund program guidance (USEPA, 1997). In this phase, the collection and interpretation of biological data are completed to further refine the conclusions of the SLERA.

This ERA serves as a BERA because COPECs are screened using conservative assumptions, and those that fail to pass the screen are further evaluated. A portion of the OUE site, Building 35-752, was previously assessed in the ERA for Operational Unit D (OUD) (ENSR, 1998a). As a result, additional data were collected at Building 35-752 to fill data gaps and to support the OUE assessment. The remainder of OUE is being investigated for the first time, and the results are presented in this report.

1.3 Guidance

This ERA was performed in general accordance with the following guidance provided by USEPA and relevant Alaska state agencies:

- *User's Guide for Selection and Application of Default Assessment Endpoints and Indicator Species in Alaskan Ecoregions* (ADEC, 1999)
- *Risk Assessment Procedures Manual* (ADEC, 2000)
- *Ecological Risk Assessment Guidance for Superfund: Process for Designing and Conducting Ecological Risk Assessments,* Interim Final (USEPA, 1997)
- *Framework for Ecological Risk Assessment* (USEPA, 1992a)
- *ECO Updates*, Volume 1, Numbers 1 through 5 (USEPA, 1991a, 1991b, 1992b, 1992c, 1992d)
- *ECO Updates*, Volume 2, Numbers 1 through 4 (USEPA, 1994a, 1994b, 1994c, 1994d)
- *ECO Updates*, Volume 3, Numbers 1 and 2 (USEPA, 1996a, 1996b)
- *Final Guidelines for Ecological Risk Assessment* (USEPA, 1998)
- *Ecological Risk Assessment and Risk Management Principles for Superfund Sites* (USEPA, 1999b)
- *The Role of Screening-Level Risk Assessments and Refining Contaminants of Concern in Baseline Ecological Risk Assessments* (USEPA, 2001)

1.4 Report Organization

To present the evaluations of ecological risk at OUE, this ERA is organized into the following sections:

- **Section 1: Introduction—**Describes the purpose of this analysis, background and objectives of the project, ERA approach, the guidance for the methods used to perform the analysis, the report organization, and assumptions of the ERA.
- **Section 2: Problem Formulation—**Describes the site physical and ecological setting; develops the ecological conceptual site model (CSM), including evaluation of contaminant sources, identification of ecological management goals, assessment endpoints and measures, and representative species; and discusses selection of the COPECs.
- **Section 3: Analysis—**Presents the exposure assessment and the ecological effects assessment. The exposure assessment identifies exposure pathways to be quantitatively evaluated and exposure point concentrations (EPCs) for soil. The ecological effects assessment presents published toxicity information on COPECs to determine potential adverse effects for terrestrial ecological receptors.
- **Section 4: Risk Characterization—**Integrates the problem formulation and the exposure/effects analyses to estimate the likelihood of impacts to ecological receptors from exposure to COPECs. COPECs are quantitatively and qualitatively evaluated to identify chemicals of ecological concern (COECs). Discussion of uncertainties and limitations associated with the risk assessment data and methodology are also presented, as are data gaps.
- **Section 5: Conclusions—**Summarizes the overall conclusions concerning potential ecological risks at OUE.
- **Section 6: References—**Lists references cited in the document**.**

1.5 Assumptions

This evaluation is based on the following assumptions and constraints, which are typical for ERAs currently being performed:

- Current exposure evaluations were based on existing conditions at each site.
- Future land use is assumed to be the same as current land use.
- The abiotic medium of primary ecological concern is soil. No significant pathways for surface water or sediment contamination were identified.
- Reasonable exposure depths for soil are surface to 1 foot below ground surface (bgs) for birds and mammals; and surface to 6 feet bgs for terrestrial plants and invertebrates. (Note: four samples at Building 35-752 and one sample at the Armored Vehicle Maintenance Area [AVMA] extend to depths greater than 6 feet bgs, but capture either

the 4- to 6-foot or 5- to 6-foot depths as well. Therefore, these five samples were included in the terrestrial plant and invertebrate evaluation.)

- Current chemical concentrations are present at a steady state and will not change over time.
- Chemicals not detected or analyzed are not present or evaluated.
- For direct exposure to chemicals in soil, it was assumed that each chemical is as bioavailable as the chemical upon which the toxicity information is based. That is, bioavailability of individual chemicals was assumed to be represented by the bioavailability of the similar chemical for which toxicity values were available.
- Toxicological information that has been used represents information currently available from literature and database searches.
- All representative species forage solely within the site, though qualitative comparison of the foraging range of the species to the size of OUE will be performed for those chemicals exceeding literature toxicity benchmarks.

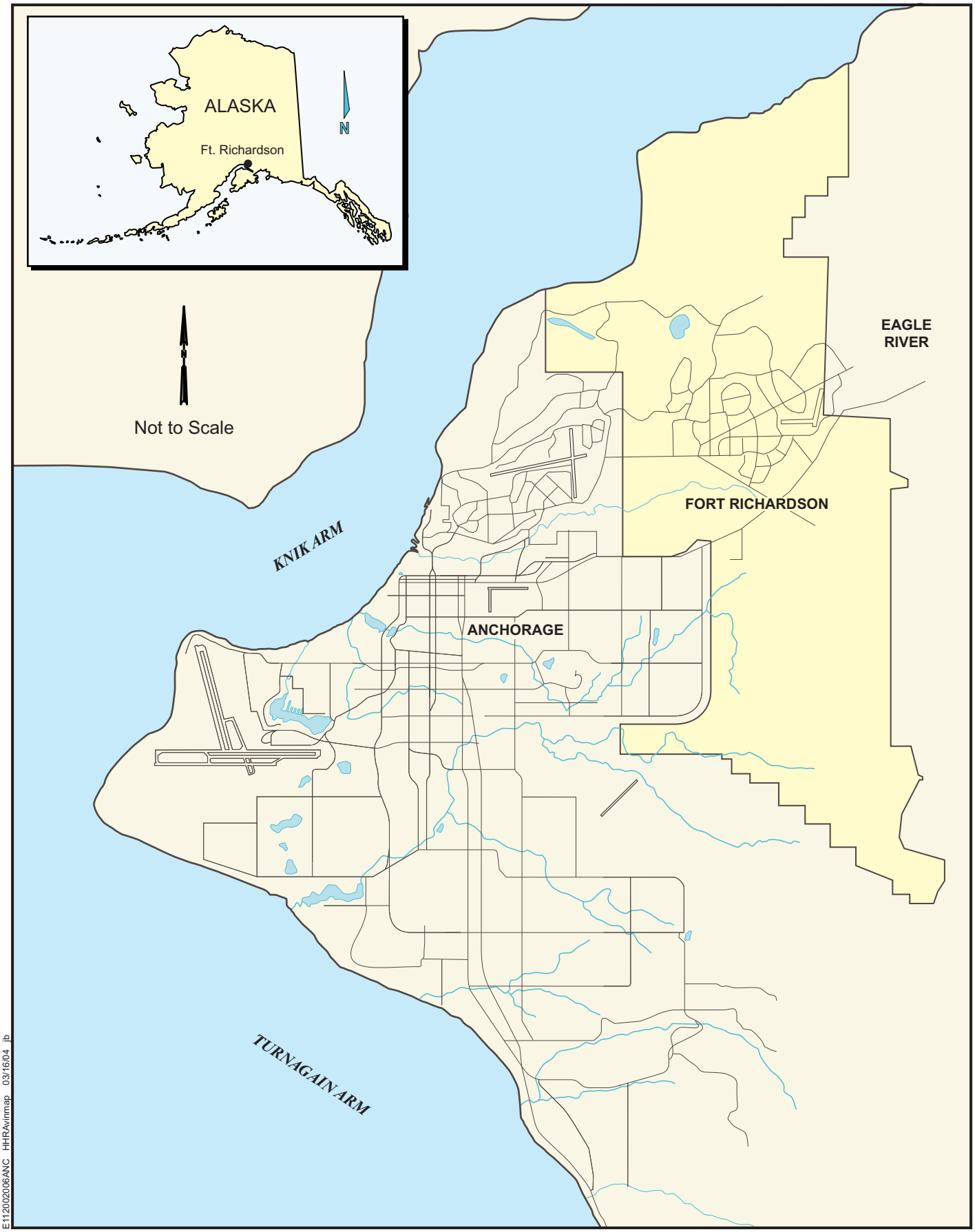

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Figure 1-1
Location of Fort Richardson
Operable Unit E Human Health Risk Assessment
Fort Richardson, Alaska

SECTION 2

Problem Formulation

Problem formulation is one of the most critical components of any risk assessment. Problem formulation includes describing the affected site; identifying the physical and ecological setting; developing the CSM, including contaminant source evaluation, identification of exposure pathways, ecological management goals, assessment endpoints and measures, and representative species; and identifying COPECs. The problem formulation provides direction and focus to the assessment process and ensures that only relevant data will be collected or evaluated.

2.1 Site Description

The site description provides information about the history, location, historical uses of Fort Richardson and OUE, and the physical and ecological setting of the particular sites within OUE. This information helps establish the spatial context of the assessment, select the appropriate assessment endpoints, and identify the COPECs. Lists of receptors at the site further determine potential assessment endpoints.

Fort Richardson is located on 62,000 acres of land northeast of the Municipality of Anchorage and Elmendorf Air Force Base (AFB). Fort Richardson was established under the command of the Alaskan Defense Force (ADF) in 1940 to protect Alaska from foreign attack. Elmendorf Field served as the airfield. During World War II (WWII), Fort Richardson served as a staging and supply area for operations on the Aleutian Islands. The troop population varied in size from 7,800 to more than 15,000. During this time, the ADF was renamed several times and, in 1947, was referred to as the "U.S. Army, Alaska." In 1950, Fort Richardson supported both Army and Air Force units, and in the northern part of the installation, the Army established a new cantonment area. The Air Force then took over the original base and renamed it Elmendorf AFB. Several reorganizations and command changes have occurred since then, including the expansion of the cantonment area.

Within Fort Richardson, OUE is made up of two main areas: the Building 35-752 Area (which also includes the area around Building 35-750) and the AVMA (Figure 2-1). Each site is described below.

2.1.1 Building 35-752 Area

This investigation area encompasses Buildings 35-752 and 35-750 and the surrounding areas (Figure 2-2). Building 35-752 was used as a generator building for the adjacent high frequency transmitter site building (Building 35-750). Five distinct sub-areas within this site include the PCB oil burning site (which has since been paved over and supports no ecological exposures), the transformer oil draining location, the transformer mounting area, the peripheral road around Building 35-750, and the footprint of the former PCB-contaminated soil stockpile.

From 1953 to 1987, four diesel generators were in operation within Building 35-752. The generators were located at the east end of the building within a 4-inch-deep concrete pit. The generators were removed in 1987, and the pit was brought to grade by filling it with concrete. Once the generators were removed, the building was used as an emergency hazardous waste storage area and served as a temporary storage location for PCB-contaminated soil in 1989.

In 1990, seven 5,000-gallon underground storage tanks (USTs) were excavated from the south side of Building 35-752. Contamination, including petroleum hydrocarbons and PCBs, was found in the excavated piles. The excavated area was filled with soil from another area of the post. One diesel UST that supports the emergency generator still remains at Building 35-750.

An unlined drum storage area was formerly located along the south end of the east side of the building during the 1960s and 1970s. The drums, reportedly from the vehicle maintenance shops, contained fuel products and solvents. Aerial photos indicate that drums were no longer stored there after 1974, but that soil stains were evident in 1983.

A septic system and a leach field south of Building 35-750 and north of Building 35-752 were found to service Building 35-750. By 1972, Building 35-750 was connected to the post sewer system. However, the cooling system was not connected and continued to discharge to the cooling ponds. A man-made cooling pond southwest of Building 35-752 received water used to cool the generators and equipment in Building 35-750. The cooling pond drained to Ship Creek. The cooling pond has been drained and the cooling water has been rerouted to a sanitary sewer.

2.1.2 Armored Vehicle Maintenance Area

The AVMA was used as a gravel source in 1950, during construction of the railroad. Later, in the 1950s and 1960s, it served as a military vehicle wash area. At that time, drainage ditches and pits were excavated and later filled and graded with unknown, potentially contaminated material. Since 1973, the area has been used as a training area and obstacle course. While most structures have been removed, two buildings and several foundation pads remain (Astley *et al*., 2001) (Figure 2-3).

Groundwater wells located west of the AVMA were found to be contaminated with volatile organic compounds (VOCs). The AVMA is currently under investigation as a possible source for the contamination based on data collected near Building 45-590 (CH2M HILL, 2003).

2.2 Physical and Ecological Setting

This subsection summarizes surface features, surface water hydrology, geology, climate, and ecological features at Fort Richardson. For a more extensive treatment of these topics, see the OUE Remedial Investigation Report (CH2M HILL, 2004).

2.2.1 Surface Features

Fort Richardson is located on 62,000 acres of land northeast of the Municipality of Anchorage and Elmendorf AFB. The elevation of Fort Richardson is between 45 and 225 feet above mean sea level (msl).

2.2.2 Surface Water

Eagle River, to the north of the main cantonment, and Ship Creek, located south of the main cantonment make up the primary surface drainage features in the area. These water bodies originate in the Chugach Mountains and flow westerly across the installation into Knik Arm. Turbid glacial meltwaters feed Eagle River, while Ship Creek is sustained by snowmelt and rainwater runoff. Surface drainage across the main cantonment is southerly, toward Ship Creek. Cooling water from the generators in Building 35-752 formerly was discharged to cooling ponds southwest of the building and then to Ship Creek. Contamination along this pathway was evaluated in the ERA for OUD (ENSR, 1998a), and is not further evaluated as part of OUE because the cooling ponds have been drained and are currently dry. Therefore, these ponds no longer represent a surface water source at Building 35-752 and do not contribute to discharge to Ship Creek. No significant surface drainage pathways from the AVMA have been identified.

2.2.3 Geology

Fort Richardson lies in the Cook Inlet-Susitna Lowland and Kenai-Chugach Mountain physiographic provinces (Wahrhaftig, 1965). Parts of the Anchorage Lowland and the Chugach Mountains fall within the boundaries of Fort Richardson. The Anchorage Lowland is a roughly triangular area below 500 feet in elevation, located between the Chugach Mountains to the east and waters of the Cook Inlet elsewhere (Hunter et al., 1999). The area is covered with a series of glacial, glacial-marine, and glacioalluvial deposits of Quaternary age. The thick sequences of unconsolidated Quaternary deposits that underlie Fort Richardson have accumulated primarily as a result of glacial and marine sedimentation.

Throughout the northern areas of Fort Richardson, there are extensive sand and gravel deposits associated with glacial moraines and glacial outwash. The existence of many abandoned sand and gravel pits throughout the post attest to the availability of the resource. Several gravel pits are currently being mined on Fort Richardson, but the materials are only used locally on Fort Richardson.

2.2.4 Hydrology and Hydrogeology

2.2.4.1 Fort Richardson

Surface Water

Four major streams and rivers pass through sections of Fort Richardson. In addition, numerous other small streams, lakes, and wetland areas are found on Fort Richardson. Fort Richardson has 12 named lakes and ponds and multiple other unnamed surface water bodies. The combined area for the named lakes and ponds is 359 acres. Five relatively large lakes, Clunie, Otter, Gwen, Thompson, and Waldon, are managed for recreational fishing.

Eagle River is a glacial waterway that originates at the base of the Eagle Glacier in the Chugach Mountains. Eagle River meanders across Fort Richardson, where it flows over an alluvial base of glacial outwash into Eagle River Flats, a 2,200-acre estuarine tidal marsh.

Ship Creek, a non-glacial stream, originates at Ship Lake in the Chugach Mountains and flows 25 miles to the Knik Arm. A water supply dam located at the base of the Chugach Mountains on Fort Richardson, approximately 10 miles from the mouth of the river diverts

water from the stream. The watershed encompasses 90.5 square miles above the diversion dam.

Chester Creek and Campbell Creek, both non-glacial streams, are located south of Ship Creek and flow through the southwestern portion of Fort Richardson. The creeks flow into marsh wetlands at the base of the Chugach Mountains on Fort Richardson but rechannelizes near the western boundary of the post.

Groundwater

Groundwater on Fort Richardson is found in both an unconfined and a confined aquifer. Water recharges the groundwater on Fort Richardson and the Anchorage Bowl in several ways. Along the mountains, groundwater seeps from bedrock fractures into the glacial deposits. In the foothills and lowlands, water flows from streams into the unconfined aquifer where the water table is below the stream elevation. In the lowlands, rain and snowmelt percolate from the surface into the groundwater.

Groundwater in the deep system has occurred at its shallowest depths (130 feet bgs) in the northern area of Fort Richardson. The flow in the deep system is generally towards Knik Arm in a westerly to northwesterly direction, with a gradient between 0.02 and 0.0025 foot per foot (ft/ft) (U.S. Army Corps of Engineers [USACE], 1991). The deep system occurs under confined conditions beneath areas where the Bootlegger Cove Formation is present. Where the Bootlegger Cove Formation is intermittently present or absent, the underlying aquifer can be described as a leaky confined system.

2.2.4.2 Operable Unit E

Surface Water

Building 35-752 Area

In general, surface water in the vicinity of the Building 35-752 Area drains into Ship Creek. In the past, cooling water from the generators in Building 35-752 was discharged to cooling ponds southwest of the building. Historical photographs show that water in the cooling pond drained through drainage channel that discharged into Ship Creek southwest of the site. Contamination along this pathway was evaluated in the ERA for OUD (ENSR, 1998a), and is not further evaluated as part of OUE.

AVMA

No significant surface water drainage pathways from the AVMA have been identified.

Groundwater

Building 35-752 Area

The groundwater in the vicinity of the Building 35-752 Area is encountered in a shallow aquifer less than 20 feet below ground surface. However, it should be noted that Ship Creek is a losing stream near Building 35-752. In other words, Ship Creek provides water to the local groundwater system. Reported groundwater elevations ranged from +242 to +255 feet mean sea level (MSL). This shallow groundwater is not a potable water source.

AVMA

The groundwater in the vicinity of the AVMA is encountered in both shallow and deep aquifers separated by a confining layer. The thickness of the confining layer was determined by two sets of co-located wells installed in the shallow unconfined and locally confined

aquifers. Data collected showed that the confining layer is 37 feet thick at the well AP-4412/AP-4413 location and 30 feet thick at the well AP-4415/AP-4416 location. The northern extent of the confining unit was determined to be adjacent to the Davis Highway, northwest of Building 732. This was confirmed in monitoring well AP-4414, where the confining layer was not encountered at a depth of 150 feet. Reported groundwater elevations ranged from +183 to +225 feet MSL in the shallow, unconfined aquifer, from +180 to +215 MSL in the confined aquifer, and were generally +180 feet MSL in the deep, unconfined aquifer.

2.2.5 Ecological Features

Tundra, coniferous forests, deciduous forests, tall shrub, low shrub and sedge/grass, and aquatic and coastal wetlands make up the regional vegetation (Black and Veatch, 1989, Woodward Clyde Consultants [WCC], 1994). Within and near the OUE sites, habitats are predominantly deciduous forests, shrubs, and sedges/grasses. Deciduous forests are a mix of balsam poplar, birch, aspen, and alder, along with some white spruce; tall shrub assemblages are dominated by alder. The types of low shrubs and sedges or grasses change with different soil and moisture conditions. Common plants that occur along with grasses and sedges in open portions of the OUE sites include clover, dandelion, fireweed, lupine, horsetail (equisetum), and cow parsnip. Horsetail and cow parsnip are most common in wetter portions of the Building 35-752 Area.

Common species of birds and mammals that are known or expected to occur at or near the OUE sites are listed in Table 2-1. During site visits in late June 2002, robins, ravens, juncos, and swallows were observed on-site. Coyotes have been observed at AVMA (Prieksat, 2002, personal communication), and there was evidence of moose presence at the site (including droppings and scraped trees). Vole runways were found in the grass at the AVMA during the site visits in June 2002.

2.2.6 Climate

Based on meteorological data, the yearly average temperature in Anchorage from 1952 to 2000 was 39.74° Fahrenheit (F), with summer temperatures ranging over 80°F and winter temperatures down to -30°F as reported by the Western Region Climate Center (2003) on their web site. The yearly average precipitation is approximately 15 inches. Infiltration and runoff from precipitation both occur when the winter snowpack melts.

The principal factors affecting the climate of Fort Richardson include terrain, latitude, and geographic position relative to large land masses and oceans. Fort Richardson is in a transitional zone between the maritime climatic zone to the south and the interior or continental climatic zone to the north. The southern mountains, St. Elias and Chugach, act as a barrier to the maritime influence of the northern Pacific Ocean; the Alaska Range to the north protects the area from the extreme cold of the arctic air masses of the state's interior region. Cook Inlet also influences temperatures and impacts the Fort Richardson area.

Because of a lack of extremes in precipitation and temperature, Fort Richardson experiences a moderate climate. However, because of its latitudinal position, the reduction of mean annual solar radiation results in low mean annual temperatures (Black and Veatch, 1989).

TABLE 2-1
List of Species Potentially Occurring in Habitats at or near OUE Sites
Baseline Ecological Risk Assessment, Operable Unit E, Fort Richardson, Alaska

Common Name	Scientific Name	Federal Status	State Status
Birds			
Aleutian Canada Goose	*Branta canadensis leucopareia*	None	ASC
American Robin	*Turdus migratorius*	None	None
Bald Eagle	*Haliaeetus leucocephalus*	None	None
Black-billed Magpie	*Pica pica*	None	None
Black-capped Chickadee	*Parus atricapillus*	None	None
Cliff Swallow	*Hirundo pyrrhonota*	None	None
Common Raven	*Corvus corax*	None	None
Dark-eyed Junco	*Junco hyemalis*	None	None
Golden-crowned Sparrow	*Zonotrichia atricapilla*	None	None
Hairy Woodpecker	*Picoides villosus*	None	None
Long-billed Curlew	*Numenius americanus*	None	None
Orange-crowned Warbler	*Vermivora celata*	None	None
Pine Siskin	*Carduelis pinus*	None	None
Red-tailed Hawk	*Buteo jamaicensis*	None	None
Rock Dove	*Columba livia*	None	None
Ruby-crowned Kinglet	*Regulus calendula*	None	None
Rusty Blackbird	*Euphagus carolinus*	None	None
Savannah Sparrow	*Passerculus sandwichensis*	None	None
Spruce Grouse	*Gendragapus canadensis*	None	None
Violet-green Swallow	*Tachyncineta thalassina*	None	None
Western Wood Pewee	*Contopus sordidulus*	None	None
White-crowned Sparrow	*Zonotrichia leucophyrs*	None	None
Yellow-rumped Warbler	*Dendroica coronata*	None	None
Yellow Warbler	*Dendroica petechia brewsteri*	None	None
Mammals			
Arctic Ground Squirrel	*Spermophilus parryi*	None	None
Black Bear	*Ursus americanus*	None	None
Coyote	*Canis latrans incolatus*	None	None
Masked Shrew	*Sorex cinereus*	None	None
Moose	*Alces alces*	None	None
Red Squirrel	*Tamiasciurus hudsonicus*	None	None
Northern Red-backed Vole	*Clethrionomys rutilus*	None	None
Wolf	*Canis lupus*	None	None

Notes: Sources include Alaska Department of Fish and Game (ADFG), 2002 and CH2M HILL, 1993. No threatened or endangered species are known to occur within Fort Richardson.

ASC = State of Alaska Species of Special Concern

2.3 Conceptual Site Model

This section presents the CSM for potential exposure by ecological receptors to site-related chemicals. The CSM combines information on potential sources and release mechanisms, potential exposure pathways, selection of receptors, and assessment endpoints and measures to provide an overall picture of site-related exposures to focus the evaluation of COPECs. Figures 2-4 and 2-5 present the ecological CSMs for Building 35-752 and the AVMA, respectively.

2.3.1 Contaminant Source Evaluation

This section provides a brief description of the sources and release mechanisms of contaminants at Building 35-752 and AVMA sites.

2.3.1.1 Past or Current Sources of Contamination and Chemical Release Mechanisms

Contamination at Building 35-752 is a result of transformer maintenance and operation, PCB oil burning and inadvertent discharge, and the peripheral road and stockpiled soils. Contamination at the AVMA is a result of armored vehicle washing and maintenance, buried debris disposal, backfilled trenches, leaks, and spills. All of these contaminant sources may have discharged constituents into surrounding soils, where they may be leached into soil and groundwater or transported off-site in runoff or groundwater by various release mechanisms.

Chemical release mechanisms act directly upon contaminated sources, such as soil at the OUE sites, and may result in ecological exposures on-site as well as off-site. Rainfall may detach and transport soil particles and potential residue through erosion with stormwater runoff to surface-water bodies. On more permeable soils, precipitation may infiltrate and percolate through the soil and may then flow into surface-water bodies. Soil contaminants have the potential to enter groundwater by infiltration or dissolution in water. Particulate matter may also be released into the air as windblown dust, especially from vehicular traffic. Depending on particle size and meteorological conditions, dust may deposit onto soil and aboveground foliage. In some cases, certain contaminants may volatilize and release into the air. In addition, bioaccumulation of some contaminants in plants may occur from soils.

Contaminants associated with activities at Building 35-752 are primarily PCBs, while those at the AVMA site may include metals, PCBs, organochlorine pesticides, VOCs, and semivolatile organic compounds (SVOCs). Some ecological receptors may be exposed by direct contact with site-related constituents in the source area soils. Other ecological receptors may be exposed through the food chain by eating plants or animals that have bioaccumulated the constituents.

2.3.1.2 Transport/Exposure Media

Transport/exposure media are those environmental media that may be affected by releases from contaminant sources. The chemical release mechanisms discussed above may result in contamination of soil, sediment, surface water, groundwater, and air at either site. Surface water and sediment were evaluated previously in the OUD ERA (ENSR, 1998a) and/or the Postwide ERA (ENSR, 1998b), and will not be reevaluated for OUE because no new data relevant to surface-water exposures were collected. Groundwater is a potential exposure

medium for future human use, but not a significant exposure medium for plants or animals unless it discharges to surface waters; this does not occur at OUE. VOCs may migrate from soil into air by volatilization, but ecological exposure to VOCs in air is not considered significant except for burrowing animals (which are not known to inhabit contaminated portions of the OUE sites).

2.3.2 Exposure Pathways

"Exposure pathways" refer to the media and routes through which inorganic and organic contaminants may reach ecological receptors (USEPA, 1997). Environmental media may be affected by contaminants originating from previously discussed primary or secondary sources. Exposure pathways are considered to be potentially complete or incomplete, depending on whether COPECs from primary or secondary sources have the potential to impact ecological receptors now or in the future.

Potential exposure pathways must meet specific criteria for an exposure to occur. Aside from necessary habitat for ecological receptors, a complete exposure pathway must satisfy the following elements:

- Contaminant source (e.g., drums, contaminated soil)
- Mechanism for contaminant release and transport (e.g., spills, surface-water runoff)
- Exposure medium (or exposure point) (e.g., soil)
- Feasible route of exposure (e.g., ingestion)
- Receptor (e.g., plant, bird, mammal)

The focus of this OUE ERA is on direct or indirect exposure of ecological receptors to COPECs found in site soils. Potential exposure pathways for ecological receptors at Building 35-752 and the AVMA are summarized below:

- Direct uptake and dermal contact by terrestrial plants
- Ingestion and dermal contact by terrestrial invertebrates
- Incidental ingestion of soil by terrestrial vertebrates (birds and mammals)
- Food-chain transfer to terrestrial vertebrates via ingestion of contaminated plants, invertebrates, and wildlife

Except in the case of burrow-dwelling animals, a receptor's exposure to contaminants by inhalation and dermal contact usually contributes little to its overall exposure. Because of the limited amounts of air present to dilute vapors and the absence of air movement for gas dispersion, Hope (1995) indicated that exposure via inhalation is most important to organisms that inhabit subsurface burrows. This conclusion was supported by Carlsen (1996), who observed three orders of magnitude greater exposure via inhalation to trichloroethene (TCE) in burrowing vertebrates compared to non-burrowing species. Dermal exposure is likely to be low, even in burrow-dwelling animals, because of the presence of protective dermal layers (feathers, fur, scales). Receptors being evaluated in this assessment do not include burrow-dwelling animals, because other receptors were determined to be more representative of receptors on-site and no evidence of burrowing animals was observed at the site during the site visit. Therefore, dermal and inhalation exposures were considered negligible, and the emphasis of the OUE ERA was placed on exposure of ecological receptors through direct

contact/uptake (terrestrial plants and invertebrates), incidental ingestion of contaminated soil (terrestrial invertebrates, birds and mammals), or uptake of COPECs through food-chain transfer (birds and mammals).

2.3.3 Ecological Management Goals, Assessment Endpoints, and Measures

The identification of ecological management goals (EMGs), assessment endpoints, and measures is critical to the ERA process. They provide the focus of the ERA, link the ERA with the remedial investigation/feasibility study (RI/FS), and ensure that methodologies and results of the ERA are technically sound. Most importantly, EMGs ensure that the values of the site are considered from an ecological standpoint in the remedial decision-making process.

EMGs, assessment endpoints, and measures for the OUE ERA are described in the following sections.

2.3.3.1 Ecological Management Goals

The EMGs are statements of the desired ecological conditions for the site. They must be established based on a realistic assessment of the current status of the ecological community and potential current and future land uses at the site. The following EMGs were developed for OUE:

- Protection of communities of terrestrial plants and invertebrate animals that are characteristic of local habitats
- Protection of populations of vertebrate animals (birds and mammals) that are characteristic of local habitats

The overall objective of the ERA is to quantitatively and qualitatively define the existing risks to ecological receptors from site-related contamination in OUE. Risk managers will use this information to achieve the EMGs for the area and to make remedial decisions for each portion of the operable unit. Inherent in these EMGs is the need to evaluate the toxicity and/or toxic effects of COPECs released by site activities to ecological receptors. By protecting the integrity of the food chain, as well as the identified representative receptors, the EMGs should be fulfilled. The ecological endpoints to evaluate these objectives are presented in the following sections.

2.3.3.2 Assessment Endpoints

The selection of assessment endpoints is crucial to the ERA because the endpoints define the important ecological values that are to be protected (Suter, 1990, 1993; Suter *et al*., 2000; USEPA, 1996a, 1997, 1998). They are developed based on known information concerning the contaminants present, the receiving site, and the risk management goals. In addition, they must represent a property of the system that can be measured. There are three components to each assessment endpoint: an entity (e.g., birds), an attribute of that entity (e.g., population survival), and a measurable value such as an effect level (USEPA, 1998; Suter *et al*., 1995, 2000).

The assessment endpoint entities for OUE were selected based on the following principal criteria:

- Ecological relevance
- Political and societal relevance

- Susceptibility to known or potential stressors
- Consistency with ecological management goals

The attribute selected for each entity was based on the biological organizational level of the entity and the primary criteria that were used to select it. Entities and attributes were evaluated at either the community level or the population level of organization.

The maximum acceptable adverse effect level generally selected for the assessment endpoints is a 20% reduction in the measured attribute. This level is consistent with current USEPA regulatory practices (e.g., development of the national ambient water quality criteria and effluent discharges regulated by the National Pollutant Discharge Elimination System) and measurement limits for many field and laboratory tests (e.g., aquatic subchronic toxicity tests are not reliable at detecting reductions at less than 20% adverse effect responses of the test organism; lowest observed effect concentrations [LOECs] for avian reproduction tests correspond to a 20% reduction; and 20% reduction in community is the limit of detection for assessing aquatic communities using the USEPA rapid bioassessment procedures [Suter *et al*., 2000]). Using available methods, changes in natural populations of less than 20% cannot generally be differentiated from "noise" measurements. An effect level of 20% has been selected for all assessment endpoints in OUE.

Community-Level Endpoints. Assessment endpoints were identified that pertain to potential effects within OUE on terrestrial plant and invertebrate communities that are characteristic of natural habitats in the area. The effects levels for these endpoints were established to eliminate adverse effects to organisms that make up terrestrial plant and invertebrate communities. Community-level endpoints include:

- **Entity—**Terrestrial Plant Communities
  - **Attribute:** Terrestrial plant community composition, density, species diversity, and community structure that provide suitable habitat and forage for indigenous wildlife species; survival and reproduction capable of maintaining viable populations of indigenous plant species that are characteristic of natural habitats in the region supportive of the terrestrial community structure
  - **Effect Level:** Any exposure resulting in greater than 20% reduction in attributes relative to reference baseline data
- **Entity—**Terrestrial Invertebrate Communities
  - **Attribute**: Terrestrial invertebrate community composition, density, species diversity, and community structure supportive of terrestrial ecosystem processes (e.g., nutrient cycling, decomposition) and providing prey for terrestrial predators; survival and reproduction capable of maintaining viable populations of indigenous invertebrate species that are characteristic of natural habitats in the region supportive of the terrestrial community structure
  - **Effect Level**: Any exposure resulting in greater than 20% reduction in attributes relative to reference baseline data

Population-Level Endpoints. Assessment endpoints that pertain to potential effects on populations of species that are characteristic of natural habitats in the area were identified

for birds and mammals. Effect levels for these endpoints were established to eliminate adverse effects that may be experienced by greater than 20% of the naturally occurring populations. Population-level endpoints include:

- **Entity**—Birds
  - **Attribute**: Survival, reproduction, growth, and abundance conducive to the maintenance of viable species populations at levels that are characteristic of natural habitats in the region and supportive of the community structure
  - **Effect Level**: Any exposure resulting in greater than 20% reduction in attributes relative to reference or baseline data
- **Entity**—Mammals
  - **Attribute**: Survival, reproduction, growth, and abundance conducive to the maintenance of viable species populations at levels that are characteristic of natural habitats in the region and supportive of the community structure
  - **Effect Level**: Any exposure resulting in greater than 20% reduction in attributes relative to reference or baseline data

2.3.3.3 Measures

The measures used in ERAs are predictive of the assessment endpoints (USEPA, 1998). There are three categories of measures: measures of exposure, measures of effects, and measures of ecosystem and receptor characteristics. Measures identified for an ERA can be from one or more of these categories, depending on the complexity of the ERA. For purposes of OUE, only measures of exposure and measures of effects were used.

Criteria considered in the selection of measures are as follows:

- Corresponds to or is predictive of an assessment endpoint
- Can be readily measured or evaluated
- Is appropriate to the scale of the site
- Is appropriate to the temporal dynamics
- Is appropriate to the exposure pathway
- Is associated with low natural variability
- Is minimally disruptive to the ecological community and species variability

Measures of Exposure. Measures of exposure are used to evaluate how exposure could be occurring and are defined as the contact or co-occurrence of the stressor and the assessment endpoint. The measure of exposure used for OUE is the concentrations of COPECs in soil.

Measures of Effects. Measures of effects are used to evaluate the response of the assessment endpoints when exposed to the stressor. As such, they are quantifiable changes in an attribute of an assessment endpoint. The measures of effects for OUE are listed for each level of assessment endpoint:

- **Community-Level Measures**
  - Effects on growth, reproduction, or survival that may affect terrestrial plant community composition, density, species diversity, or community structure
  - Effects on growth, reproduction, or survival that may affect terrestrial invertebrate community composition, density, species diversity, or community structure
- **Population-Level Measures**
  - Effects on growth, reproduction, or survival that may affect abundance of bird species
  - Effects on growth, reproduction, or survival that may affect abundance of mammalian species

Assessment endpoints and measures of exposure and effects are presented in Table 2-2.

2.3.4 Identification of Representative Species

Because some of the selected assessment endpoints are evaluated at the community level (i.e., terrestrial plants and terrestrial invertebrates), identification of specific receptors to represent the assessment endpoint is unnecessary. To facilitate the evaluation of risks to birds and mammals, however, identification of representative species is necessary. Representative species were selected from those used in the OUD ERA (ENSR, 1998a) and compared with those listed in the *User's Guide for Selection and Application of Default Assessment Endpoints and Indicator Species in Alaskan Ecoregions* (ADEC, 1999). Selection criteria include:

- Receptor is a special-status species (e.g., threatened or endangered)
- Receptor has a small home range
- Receptor is representative of an ecological guild
- Receptor is susceptible to bioaccumulation or biomagnification of COPECs (e.g., higher trophic-level predators)
- Receptor is likely to be exposed to contaminants
- Receptor occurs at the site, or habitat is available to support the selected receptor
- Receptor is known or suspected to be sensitive to contaminants
- Receptor is ecologically important

OUE is made up of grasslands, open fields, and wooded areas. Potential ecological receptors include plant, invertebrate, and vertebrate terrestrial species. These receptors may be exposed to COPECs at the two sites. Table 2-1 presents wildlife species potentially occurring in habitats at or near OUE sites. No special-status species are known to occur at the OUE sites, although the Aleutian Canada goose, a State of Alaska Species of Special Concern, may occur in the area. However, there are no surface water sources at OUE. Therefore, aquatic species are not considered as potential receptors. (Note: surface water exposure to aquatic receptors from Ship Creek was evaluated previously in the Postwide ERA [ENSR, 1998b] and was not evaluated further in the current OUE ERA.)

TABLE 2-2
Assessment Endpoints and Measures of Exposure and Effects
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Assessment Endpoint					Receptor Characteristics					Exposure Potential				
Entity	Attribute	Effect Level	Conceptual Model Group	Representative Receptor	Special Status	Small Home Range	Representative of Guild	Susceptible to Biomagnification	Assessment Level	Inhalation	Ingestion	Dermal	Measures of Exposure	Measures of Effects
Terrestrial Plants	Growth, reproduction, or survival	20% reduction of attribute	Soil Biota	NA	L	H	H	M	Community	NA	NA	H	Measured concentrations of COPEC in soil.	Comparison of maximum soil concentrations for the 0 to 6 ft bgs samples to literature-derived screening benchmark values for toxic effects that could affect growth or survival.
Terrestrial Invertebrates	Growth, reproduction, or survival	20% reduction of attribute	Soil Biota	NA	L	H	H	H	Community	H	H	H	Measured concentrations of COPEC in soil.	Comparison of maximum soil concentrations for the 0 to 6 ft bgs samples to literature-derived screening benchmark values for toxic effects that could affect growth or survival.
Birds	Growth, reproduction, or survival	20% reduction of attribute	Omnivore	American Robin	L	H	H	H	Population	M	H	L	Measured concentrations of COPEC in soil.	Comparison of exposure estimates (based on RME [95% UCL or maximum determined using RATS] soil concentration for the 0 to 1 ft bgs samples and literature-derived biaccumulation values) to benchmark values for toxic effects that could affect reproduction or survival.
	Growth, reproduction, or survival	20% reduction of attribute	Carnivore	Bald Eagle	L	L	H	H	Population	L	L	L	Measured concentrations of COPEC in soil.	Comparison of exposure estimates (based on RME [95% UCL or maximum determined using RATS] soil concentration for the 0 to 1 ft bgs samples and literature-derived biaccumulation values) to benchmark values for toxic effects that could affect reproduction or survival.
Mammals	Growth, reproduction, or survival	20% reduction of attribute	Herbivore	Red-backed Vole	L	H	H	L	Population	M	M	L	Measured concentrations of COPEC in soil.	Comparison of exposure estimates (based on RME [95% UCL or maximum determined using RATS] soil concentration for the 0 to 1 ft bgs samples and literature-derived biaccumulation values) to benchmark values for toxic effects that could affect reproduction or survival.
	Growth, reproduction, or survival	20% reduction of attribute	Herbivore	Moose	L	L	H	L	Population	L	L	L	Measured concentrations of COPEC in soil.	Comparison of exposure estimates (based on RME [95% UCL or maximum determined using RATS] soil concentration for the 0 to 1 ft bgs samples and literature-derived biaccumulation values) to benchmark values for toxic effects that could affect reproduction or survival.
	Growth, reproduction, or survival	20% reduction of attribute	Omnivore	Masked Shrew	L	H	H	H	Population	M	H	L	Measured concentrations of COPEC in soil.	Comparison of exposure estimates (based on RME [95% UCL or maximum determined using RATS] soil concentration for the 0 to 1 ft bgs samples and literature-derived biaccumulation values) to benchmark values for toxic effects that could affect reproduction or survival.
	Growth, reproduction, or survival	20% reduction of attribute	Omnivore	Coyote	L	L	H	H	Population	L	L	L	Measured concentrations of COPEC in soil.	Comparison of exposure estimates (based on RME [95% UCL or maximum determined using RATS] soil concentration for the 0 to 1 ft bgs samples and literature-derived biaccumulation values) to benchmark values for toxic effects that could affect reproduction or survival.

Note that all receptors are potentially sensitive to contaminants and all are considered ecologically important.
L = low
M = moderate
H = high
RME = Reasonable Maximum Exposure
RATS = Risk Assessment Tool Set program

Representative receptors were assessed at either the community level or the population level. Receptors that were assessed at the community level include terrestrial plants and invertebrates, which provide forage/prey for higher trophic levels and require protection at a community level. Species that were assessed at the population level include birds and mammals, for which protection of populations is important.

Wildlife receptors for OUE include the American robin as an avian omnivore and the bald eagle as an avian carnivore, the red-backed vole and the moose as mammalian herbivores, and the masked shrew and the coyote as mammalian omnivores. While the OUD ERA (ENSR, 1998a) used red fox as the mammalian omnivore, the coyote was selected for this evaluation because a coyote den was identified on the AVMA site and coyotes were considered more likely receptors. Selected representative species are presented in Table 2-2.

2.4 Chemicals of Potential Ecological Concern

Contaminants associated with activities at Building 35-752 are primarily PCBs, while those at the AVMA site may include metals, PCBs, organochlorine pesticides, VOCs, and SVOCs. The COPECs for OUE were identified from evaluation of existing data. A summary of the available data, the data evaluation, and the background/screening evaluation is presented below.

2.4.1 Summary of Available Data

Data from the following investigations have been identified for evaluation:

2.4.1.1 Building 35-752

- U.S. Army Corps of Engineers (USACE), 1990—1990 sampling; UST remediation sampling program at the former UST location
- Harding Lawson Associates (HLA), 1994—1993 sampling; site assessment and corrective action plan at the former UST site (note: these data were not available for inclusion in the current risk assessment)
- ENSR, 1996—1994 sampling; limited field investigation of the entire site
- ENSR, 1998c—1996, 1997, and 1998 sampling; RI/FS for OUD
- ENSR, 2000—2000 sampling; investigation for the Air Force on surface and shallow subsurface soil on the west side of Building 35-750
- CH2M HILL, 2004 (current RI report)—2002 sampling; collection of soil samples in specified areas (transformer oil discharge area, transformer oil burn pit, peripheral road, and former PCB-contaminated soil stockpile footprint) for use in OUE risk assessments; groundwater samples were collected also

2.4.1.2 Armored Vehicle Maintenance Area

- USACE, 2001—2001 sampling; soil boring and sampling, monitoring well installation and groundwater sampling

- CH2M HILL, 2003 (current RI report)—2002 and 2003 sampling; collection of soil samples along nine trenches for use in OUE risk assessments

Details of the 2002 sampling events (CH2M HILL, 2003) at both Building 35-752 and the AVMA site and 2003 sampling event at the AVMA are presented in the main body (Section 4) of the RI Report.

2.4.2 Data Evaluation

The electronic data were incorporated into the ERA chemical database without any additional data validation because this process had already been completed by each source. Previously reported sampling data were checked for inconsistencies, and those data were corrected to the extent possible. These corrections included adding sampling depths, standardizing analyte names, correcting matrices, reclassifying analytes, correcting sampling location references, flagging data quality, flagging records that were rendered invalid as a result of a previous remedial action, and standardizing units.

The validated data were evaluated for their use in the risk assessment. Data were retained or eliminated from the ERA database using the following guidelines:

- Media included in the database consisted of field-collected soil. Sediment samples collected from the cooling pond and drainage areas at Building 35-752 were considered to be soil because that area was drained and no longer holds water. Soils were divided into two depth groups: soil from 0 to 1 foot bgs and soil from 0 to 6 feet bgs. (Note: four samples at Building 35-372 and one sample at the AVMA that extend to depths greater than 6 feet bgs are included in the 0- to 6-feet-bgs group because they capture either the 4- to 6-foot or 5- to 6-foot depths.)

- Soil samples from locations at Building 35-752 that are no longer accessible to ecological receptors (e.g., areas under impermeable asphalt surfaces and building expansions) were excluded.

- Chemical results with final validation qualifiers of "ND" (not detected or "nondetect") or "U" (undetected at sample quantitation limit [the concentration given]) or "UJ" (estimated nondetect level) were considered nondetects and were evaluated at one-half the method detection limit to calculate summary statistics.

- Chemical results with final validation qualifiers of any letter except "ND," "U," or "UJ" were considered detected.

- Chemical data were retained for all sampling locations if the chemical was detected at least once in soil. Chemicals that were never detected in soil were considered not present for the purposes of this ERA. For example, if chemical "x" was detected in at least one soil sample throughout the site, then chemical "x" soil data from all sampling locations were retained and evaluated in the ERA. If chemical "x" was not detected in any of the soil sampling locations, then it was assumed that chemical "x" was not present in soil, and it was not evaluated in the ERA.

- Field duplicates were averaged with the native sample for inclusion in the database.

Chemical data meeting the data evaluation requirements were retained (see Table 2-3 for a list of retained samples), and those with detected concentrations were further evaluated in the ERA. Summary statistics were tabulated for the soil data at the 0- to 6-feet-bgs and 0- to 1-foot-bgs depths; they are presented in Tables 2-4 and 2-5 for Building 35-752 and in Tables 2-6 and 2-7 for the AVMA. These statistics include number of detects, number of samples, minimum and maximum detected values, mean, standard deviation, and 95% upper confidence limit (UCL) of the mean for lognormal concentration and for normal concentration. The database output of all retained samples for Building 35-752 and the AVMA is presented in Appendix A.

2.4.3 Background/Screening Evaluation

The inorganic chemicals found at OUE occur naturally at varying background levels. Sampling was conducted previously to establish local background concentrations in soils present at Fort Richardson (*Background Data Analysis Report, Fort Richardson, Alaska*, Ecology and Environment [E&E], 1996). Values were developed for "surface" (0 to 0.5 foot bgs), "root zone" (0.5 to 3 feet bgs), "subsurface" (greater than 3 feet bgs), and "all" depths categories. The "surface" 95% upper tolerance limit (UTL) values, as available, were used for comparison to data selected for use in the bird and mammal risk estimates, and the "all" 95% UTL values were used for comparison to data selected for use in the plant and invertebrate risk evaluations. Preference was given to these E&E (1996) background values when available. Otherwise, values developed for the Postwide ERA at Fort Richardson (ENSR, 1998b) were used. Background screenings at the two depth intervals are presented in Tables 2-8 and 2-9 for Building 35-752 and in Tables 2-10 and 2-11 for the AVMA.

Maximum detected contaminant concentrations that met data evaluation criteria (as described above) and that exceeded the UTL or Postwide background values for inorganics in soils were identified as COPECs. At Building 35-752, maximum concentrations of barium, chromium, lead, and zinc in the 0- to 6-feet-bgs samples exceeded background values (Table 2-8). In the 0- to 1-foot-bgs samples, barium, chromium, lead, nickel, and zinc exceeded background levels (Table 2-9). The addition of nickel to the COPEC list for the 0- to 1-foot-bgs samples resulted from differences in the 95% UTL values reported for the "surface" (48.73 milligrams [mg]/kilogram [kg]) and "all" (50.64 mg/kg) depth categories. For the AVMA, maximum concentrations of aluminum, arsenic, barium, beryllium, chromium, lead, manganese, nickel, selenium, vanadium, and zinc in the 0- to 6-feet-bgs samples exceeded background values (Table 2-10). Maximum concentrations of aluminum, barium, beryllium, lead, nickel, selenium, and vanadium in 0- to 1-foot-bgs samples at the AVMA exceeded background values (Table 2-11). Essential nutrients, including calcium, iron, magnesium, potassium, and sodium, were not retained as COPECs in soil.

All detected organic compounds in soil were assumed to be site-related and were retained as COPECs, without comparison to background or screening values. Organic compounds that were not detected in any sample were not considered COPECs. Selection of COPECs for the 0- to 6-feet-bgs and 0- to 1-foot-bgs depths for Building 35-752 and the AVMA are presented in Tables 2-12 and 2-13 and Tables 2-14 and 2-15, respectively.

TABLE 2-3
Summary of Samples Retained from the Data Evaluation
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Station ID	Sample ID	Site	Sample Depth (ft)	Date Collected	Birds & Mammals	Plants & Invertebrates
LCI8	LCI 8-1	35-752	0.5-1	10-May-01	x	x
T11	02B752233	35-752	0.5-1	15-Oct-02	x	x
T15	02B752246SL	35-752	0.5-1	15-Oct-02	x	x
T2	02B752205SL	35-752	0.5-1	15-Oct-02	x	x
T5	02B752214SL	35-752	0.5-1	15-Oct-02	x	x
T6	02B752218SL	35-752	0.5-1	15-Oct-02	x	x
96-SD007	975752007SD-AVG	35-752	0-0	21-Oct-97	x	x
96-SD1	96575201SD	35-752	0-0	25-Sep-96	x	x
96-SD10	96575210SD	35-752	0-0	25-Sep-96	x	x
96-SD11	96575211SD	35-752	0-0	26-Sep-96	x	x
96-SD2	96575202SD	35-752	0-0	25-Sep-96	x	x
96-SD3	96575203SD-AVG	35-752	0-0	25-Sep-96	x	x
96-SD5	96575205SD	35-752	0-0	25-Sep-96	x	x
96-SD6	96575206SD	35-752	0-0	25-Sep-96	x	x
96-SD7	96575207SD	35-752	0-0	25-Sep-96	x	x
96-SD8	96575208SD	35-752	0-0	25-Sep-96	x	x
96-SD9	96575209SD	35-752	0-0	25-Sep-96	x	x
AP-3787	96575230SL	35-752	0-0	03-Oct-96	x	x
AP-3788	96575236SL-AVG	35-752	0-0	03-Oct-96	x	x
P1	02B752130SL	35-752	0-0.5	30-Jul-02	x	x
P10	02B752157SL-AVG	35-752	0-0.5	30-Jul-02	x	x
P23	02B752198SL	35-752	0-0.5	30-Jul-02	x	x
P26	02B752207SL	35-752	0-0.5	30-Jul-02	x	x
P26	02B752208SL	35-752	0-0.5	30-Jul-02	x	x
P29	02B752216SL-AVG	35-752	0-0.5	30-Jul-02	x	x
P29	02B752217SL	35-752	0-0.5	30-Jul-02	x	x
P7	02B752148SL	35-752	0-0.5	30-Jul-02	x	x
S32	02B75265SL	35-752	0-0.5	26-Jul-02	x	x
S35	02B75271SL	35-752	0-0.5	26-Jul-02	x	x
S36	02B75273SL	35-752	0-0.5	26-Jul-02	x	x
S37	02B75275SL	35-752	0-0.5	26-Jul-02	x	x
S38	02B75277SL	35-752	0-0.5	26-Jul-02	x	x
S39	02B75279SL	35-752	0-0.5	26-Jul-02	x	x
S40	02B75281SL	35-752	0-0.5	26-Jul-02	x	x
S41	02B75283SL-AVG	35-752	0-0.5	26-Jul-02	x	x
SD-A	94575240SD-AVG	35-752	0-0.5	08-Dec-94	x	x
SD-B	94575242SD	35-752	0-0.5	08-Dec-94	x	x
SD-C	94575243SD	35-752	0-0.5	08-Dec-94	x	x
SD-D	94575244SD	35-752	0-0.5	08-Dec-94	x	x
SD-E	94575245SD	35-752	0-0.5	08-Dec-94	x	x
SD-F	94575246SD	35-752	0-0.5	08-Dec-94	x	x
SD-G	94575247SD	35-752	0-0.5	08-Dec-94	x	x
SD-H	94575248SD	35-752	0-0.5	08-Dec-94	x	x
T1	02B75201SL	35-752	0-0.5	01-Aug-02	x	x
T10	02B75228SL-AVG	35-752	0-0.5	01-Aug-02	x	x
T10	02B75229SL	35-752	0-0.5	01-Aug-02	x	x
T11	02B75232SL	35-752	0-0.5	01-Aug-02	x	x
T13	02B75238SL	35-752	0-0.5	01-Aug-02	x	x
T15	02B75244SL	35-752	0-0.5	01-Aug-02	x	x
T16	02B75247SL	35-752	0-0.5	01-Aug-02	x	x
T17	02B75250SL	35-752	0-0.5	01-Aug-02	x	x
T19	02B75256SL	35-752	0-0.5	01-Aug-02	x	x

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Operable Unit E, Fort Richardson, Alaska

Station ID	Sample ID	Site	Sample Depth (ft)	Date Collected	Birds & Mammals	Plants & Invertebrates
T2	02B75204SL	35-752	0-0.5	01-Aug-02	x	x
T3	02B75207SL	35-752	0-0.5	01-Aug-02	x	x
T4	02B75210SL	35-752	0-0.5	01-Aug-02	x	x
T5	02B75213SL	35-752	0-0.5	01-Aug-02	x	x
T6	02B75216SL	35-752	0-0.5	01-Aug-02	x	x
T7	02B75219SL	35-752	0-0.5	01-Aug-02	x	x
T8	02B75222SL	35-752	0-0.5	01-Aug-02	x	x
LCI5	LCI 5-0	35-752	0-1	10-May-01	x	x
AP-3504	94575235SL	35-752	0-2	09-Nov-94		x
AP-3506	94575223SL	35-752	0-2	03-Nov-94		x
AP-3502	94575227SL-AVG	35-752	0-4	07-Nov-94		x
AP-3505	94575219SL	35-752	0-4	03-Nov-94		x
AP-3503	94575231SL	35-752	0-6	08-Nov-94		x
P1	02B752132SL	35-752	1.5-2	30-Jul-02		x
P22	02B752197SL	35-752	1.5-2	30-Jul-02		x
P25	02B752206SL	35-752	1.5-2	30-Jul-02		x
P28	02B752215SL	35-752	1.5-2	30-Jul-02		x
P6	02B752147SL	35-752	1.5-2	30-Jul-02		x
P9	02B752156SL	35-752	1.5-2	30-Jul-02		x
P2	02B752134SL	35-752	1-1.5	30-Jul-02		x
P24	02B752202SL	35-752	1-1.5	30-Jul-02		x
P27	02B752211SL	35-752	1-1.5	30-Jul-02		x
P30	02B752220SL	35-752	1-1.5	30-Jul-02		x
P30	02B752221SL	35-752	1-1.5	30-Jul-02		x
P5	02B752143SL	35-752	1-1.5	30-Jul-02		x
P8	02B752152SL	35-752	1-1.5	30-Jul-02		x
S31	02B75264SL	35-752	1-1.5	26-Jul-02		x
S34	02B75270SL	35-752	1-1.5	26-Jul-02		x
S37	02B75276SL	35-752	1-1.5	26-Jul-02		x
LCI1	LCI 1-1	35-752	1-2	10-May-01		x
LCI2	LCI 2-1	35-752	1-2	10-May-01		x
LCI3	LCI 3-1	35-752	1-2	10-May-01		x
LCI4	LCI 4-1	35-752	1-2	10-May-01		x
SS 1	94575218SL	35-752	2-2	10-Oct-94		x
SS 2	94575217SL	35-752	2-2	10-Oct-94		x
SS 3	94575216SL	35-752	2-2	10-Oct-94		x
SS 4	94575215SL	35-752	2-2	10-Oct-94		x
SS 5	94575213SL-AVG	35-752	2-2	10-Oct-94		x
SS 6	94575212SL	35-752	2-2	10-Oct-94		x
SS 7	94575211SL	35-752	2-2	10-Oct-94		x
SS 8	94575210SL	35-752	2-2	06-Oct-94		x
AP-3787	96575231SL-AVG	35-752	2-2.5	03-Oct-96		x
AP-3788	96575238SL	35-752	2-2.5	03-Oct-96		x
LCI2	LCI 2-2	35-752	2-3	10-May-01		x
LCI5	LCI 5-2	35-752	2-3	10-May-01		x
LCI2	LCI 2-3-AVG	35-752	3-4	10-May-01		x
AP-3504	94575236SL-AVG	35-752	4-10	09-Nov-94		x
AP-3502	94575229SL	35-752	4-6	07-Nov-94		x
AP-3505	94575220SL	35-752	4-6	03-Nov-94		x
AP-3506	94575224SL	35-752	4-8	03-Nov-94		x
AP-3785	96575225SL	35-752	5-5	02-Oct-96		x
AP-3787	96575233SL	35-752	5-5	03-Oct-96		x

TABLE 2-3
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Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Station ID	Sample ID	Site	Sample Depth (ft)	Date Collected	Birds & Mammals	Plants & Invertebrates
AP-3788	96575239SL-AVG	35-752	5-5	03-Oct-96		x
AP-2983	90FRUST90 soil	35-752	5-5.5	21-Aug-90		x
AP-2982	90FRUST86 soil	35-752	5-6.5	21-Aug-90		x
AP-3501	94575240SL	35-752	5-7	11-Nov-94		x
SS 1	94575201SL-AVG	35-752	6-6	06-Oct-94		x
SS 2	94575203SL	35-752	6-6	06-Oct-94		x
SS 3	94575204SL	35-752	6-6	06-Oct-94		x
SS 4	94575205SL	35-752	6-6	06-Oct-94		x
SS 5	94575206SL	35-752	6-6	06-Oct-94		x
SS 6	94575207SL	35-752	6-6	06-Oct-94		x
SS 7	94575208SL	35-752	6-6	06-Oct-94		x
SS 8	94575209SL	35-752	6-6	06-Oct-94		x
AVMAT1	02AVMA01SL	AVMA	0.5-0.5	22-Jul-02	x	x
AVMAT2	02AVMA06SL	AVMA	0.5-0.5	22-Jul-02	x	x
AVMAT3	02AVMA13SL	AVMA	0.5-0.5	23-Jul-02	x	x
AVMAT4	02AVMA18SL	AVMA	0.5-0.5	24-Jul-02	x	x
AVMAT6	OUE02T6LS08	AVMA	0.5-0.5	20-Aug-02	x	x
AVMAT8	OUE02T8LS17-AVG	AVMA	0.5-0.5	21-Aug-02	x	x
AVMAT9	OUE02T8LS23	AVMA	1-1	22-Aug-02	x	x
AVMAT1	02AVMA02SL	AVMA	3.5-3.5	22-Jul-02		x
AVMAT4	02AVMA23SL	AVMA	3-3	24-Jul-02		x
AVMAT4	02AVMA24SL	AVMA	4.5-4.5	24-Jul-02		x
AP-4146	00FRAW10SL	AVMA	4.5-6	23-Jan-01		x
AP-4151	00FRAW15SL-AVG	AVMA	4.5-6	25-Jan-01		x
AVMAT2	02AVMA07SL	AVMA	4-4	22-Jul-02		x
AVMAT3	02AVMA14SL	AVMA	4-4	23-Jul-02		x
AVMAT4	02AVMA19SL-AVG	AVMA	4-4	24-Jul-02		x
AVMAT6	OUE02T6LS09	AVMA	5-5	20-Aug-02		x
AVMAT6	OUE02T6LS11-AVG	AVMA	5-5	20-Aug-02		x
AVMAT7	OUE02T7LS12	AVMA	5-5	20-Aug-02		x
AVMAT9	OUE02T8LS25	AVMA	5-5	21-Aug-02		x
AP-4411	03AVMA03SL	AVMA	5-7.5	12-May-03		x

Notes
AVG = concentration is the average of the native and field duplicate sample.

TABLE 2-4
Summary Statistics for Subsurface Soil Samples from Building 35-752 (0 to ~6 feet bgs)
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Analyte Class	Analyte	Units	Number of Samples	Number of Detects	Frequency of Detection	Minimum Nondetect	Maximum Nondetect	Minimum Detect	Maximum Detect[a]	Mean	Standard Deviation	95 UCL Lognormal Concentration	95 UCL Normal Concentration	Exposure Point Concentration	EPC Basis
DIOXIN/FURAN	1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	mg/kg	18	15	83%	2.00E-06	1.00E-05	6.50E-07	1.66E-04	2.93E-05	4.73E-05	2.07E-04	4.87E-05	1.66E-04	Max Detect
DIOXIN/FURAN	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN	mg/kg	18	17	94%	1.10E-06	1.10E-06	3.40E-07	5.18E-04	7.39E-05	1.32E-04	0.0014	1.28E-04	5.18E-04	Max Detect
DIOXIN/FURAN	1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	mg/kg	18	12	67%	1.65E-06	1.00E-05	6.00E-07	2.37E-05	6.13E-06	7.44E-06	1.60E-05	9.18E-06	1.60E-05	Log Normal
DIOXIN/FURAN	1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	mg/kg	18	14	78%	7.50E-07	8.00E-06	3.60E-07	5.81E-05	1.04E-05	1.64E-05	5.55E-05	1.71E-05	5.55E-05	Log Normal
DIOXIN/FURAN	1,2,3,4,7,8-HEXACHLORODIBENZO-p-DIOXIN	mg/kg	18	4	22%	9.20E-07	1.00E-05	6.30E-07	2.60E-06	1.24E-06	1.51E-06	1.92E-06	1.86E-06	1.92E-06	Log Normal
DIOXIN/FURAN	1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	mg/kg	18	12	67%	1.00E-06	1.00E-05	2.60E-07	6.80E-06	2.15E-06	2.30E-06	5.18E-06	3.10E-06	5.18E-06	Log Normal
DIOXIN/FURAN	1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	mg/kg	18	10	56%	1.49E-06	2.00E-05	3.10E-07	1.17E-05	3.08E-06	3.85E-06	7.87E-06	4.66E-06	7.87E-06	Log Normal
DIOXIN/FURAN	1,2,3,7,8,9-HEXACHLORODIBENZOFURAN	mg/kg	18	0	0%	3.80E-07	1.00E-05	--	--	7.28E-07	1.55E-06	9.72E-07	1.37E-06	--	--
DIOXIN/FURAN	1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	mg/kg	18	7	39%	1.36E-06	1.00E-05	6.60E-07	6.20E-06	1.98E-06	1.91E-06	3.27E-06	2.77E-06	3.27E-06	Log Normal
DIOXIN/FURAN	1,2,3,7,8-PENTACHLORODIBENZOFURAN	mg/kg	18	1	6%	9.20E-07	7.00E-06	8.32E-05	8.32E-05	5.40E-06	1.94E-05	5.32E-06	1.34E-05	5.32E-06	Log Normal
DIOXIN/FURAN	1,2,3,7,8-PENTACHLORODIBENZO-p-DIOXIN	mg/kg	18	1	6%	4.80E-07	2.00E-05	6.40E-07	6.40E-07	1.35E-06	3.15E-06	1.91E-06	2.64E-06	6.40E-07	Max Detect
DIOXIN/FURAN	2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	mg/kg	18	11	61%	2.88E-06	1.00E-05	2.50E-07	4.70E-06	2.16E-06	1.78E-06	4.74E-06	2.89E-06	4.70E-06	Max Detect
DIOXIN/FURAN	2,3,4,7,8-PENTACHLORODIBENZOFURAN	mg/kg	18	8	44%	9.70E-07	1.00E-05	3.00E-07	4.90E-06	1.80E-06	1.92E-06	3.65E-06	2.58E-06	3.65E-06	Log Normal
DIOXIN/FURAN	2,3,7,8-TETRACHLORODIBENZOFURAN	mg/kg	18	11	61%	5.00E-07	7.00E-06	4.30E-07	5.20E-06	1.55E-06	1.69E-06	3.43E-06	2.24E-06	3.43E-06	Log Normal
DIOXIN/FURAN	2,3,7,8-TETRACHLORODIBENZO-p-DIOXIN	mg/kg	18	1	6%	6.80E-07	1.00E-05	2.60E-07	2.60E-07	8.60E-07	1.51E-06	1.13E-06	1.48E-06	2.60E-07	Max Detect
DIOXIN/FURAN	HEPTACHLORINATED DIBENZOFURANS, (TOTAL)	mg/kg	16	15	94%	1.70E-06	1.70E-06	6.50E-07	8.67E-04	1.23E-04	2.31E-04	0.0050	2.24E-04	8.67E-04	Max Detect
DIOXIN/FURAN	HEPTACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	mg/kg	16	15	94%	1.10E-06	1.10E-06	5.80E-07	8.20E-04	1.57E-04	2.44E-04	0.0090	2.64E-04	8.20E-04	Max Detect
DIOXIN/FURAN	HEXACHLORINATED DIBENZOFURANS, (TOTAL)	mg/kg	16	15	94%	3.90E-07	3.90E-07	4.90E-07	3.78E-04	8.04E-05	1.24E-04	0.0037	1.35E-04	3.78E-04	Max Detect
DIOXIN/FURAN	HEXACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	mg/kg	16	14	88%	9.40E-07	9.40E-07	3.60E-07	5.33E-05	1.14E-05	1.73E-05	9.28E-05	1.90E-05	5.33E-05	Max Detect
DIOXIN/FURAN	OCTACHLORODIBENZOFURAN	mg/kg	18	15	83%	4.30E-06	3.00E-05	8.00E-07	7.87E-04	1.07E-04	2.05E-04	0.0016	1.91E-04	7.87E-04	Max Detect
DIOXIN/FURAN	OCTACHLORODIBENZO-p-DIOXIN	mg/kg	18	18	100%	--	--	1.00E-06	0.0045	6.02E-04	0.0012	0.021	0.0011	0.0045	Max Detect
DIOXIN/FURAN	PENTACHLORINATED DIBENZOFURANS, (TOTAL)	mg/kg	16	15	94%	9.50E-07	9.50E-07	2.10E-07	2.10E-04	6.32E-05	6.81E-05	0.0025	9.30E-05	2.10E-04	Max Detect
DIOXIN/FURAN	PENTACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	mg/kg	16	7	44%	4.80E-07	4.90E-07	6.40E-07	8.60E-06	1.23E-06	2.16E-06	2.51E-06	2.18E-06	2.51E-06	Log Normal
DIOXIN/FURAN	TETRACHLORINATED DIBENZOFURANS, (TOTAL)	mg/kg	16	14	88%	5.10E-07	5.10E-07	3.90E-07	1.28E-04	3.50E-05	3.91E-05	0.0014	5.21E-05	1.28E-04	Max Detect
DIOXIN/FURAN	TETRACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	mg/kg	16	11	69%	6.80E-07	7.00E-07	4.30E-07	5.60E-06	1.27E-06	1.73E-06	2.12E-06	2.03E-06	2.12E-06	Log Normal
DIOXIN/FURAN	Total TCDD-Bird	mg/kg	18	18	100%	--	--	1.59E-06	2.68E-05	8.43E-06	9.06E-06	1.80E-05	1.21E-05	1.80E-05	Log Normal
DIOXIN/FURAN	Total TCDD-Mammal	mg/kg	18	18	100%	--	--	1.18E-06	2.27E-05	6.87E-06	7.65E-06	1.52E-05	1.00E-05	1.52E-05	Log Normal
METAL	ALUMINUM	mg/kg	9	9	100%	--	--	8,620	18,700	15,152	3,069	17,911	17,055	17,055	Normal
METAL	ANTIMONY	mg/kg	9	0	0%	10	10	--	--	5.0	0	5.0	5.0	--	--
METAL	ARSENIC	mg/kg	49	49	100%	--	--	3.0	8.0	5.2	1.4	5.6	5.6	5.6	Normal
METAL	BARIUM	mg/kg	49	49	100%	--	--	38	220	79	30	86	87	86	Log Normal
METAL	BERYLLIUM	mg/kg	9	0	0%	1.0	1.0	--	--	0.50	0	0.50	0.50	--	--
METAL	CADMIUM	mg/kg	49	3	6%	0.50	1.0	0.50	2.0	0.48	0.26	0.53	0.54	0.53	Log Normal
METAL	CALCIUM	mg/kg	9	9	100%	--	--	3,150	7,220	4,678	1,305	5,672	5,487	5,672	Log Normal
METAL	CHROMIUM, TOTAL	mg/kg	49	49	100%	--	--	23	64	34	7.3	36	36	36	Log Normal
METAL	COBALT	mg/kg	9	9	100%	--	--	7.0	13	11	1.8	12	12	12	Normal
METAL	COPPER	mg/kg	9	9	100%	--	--	20	34	28	4.9	31	31	31	Normal
METAL	IRON	mg/kg	9	9	100%	--	--	18,500	30,900	25,406	4,135	28,477	27,969	27,969	Normal
METAL	LEAD	mg/kg	49	48	98%	4.0	4.0	5.0	200	25	34	31	33	31	Log Normal
METAL	MAGNESIUM	mg/kg	9	9	100%	--	--	5,930	10,300	7,597	1,301	8,487	8,403	8,487	Log Normal
METAL	MANGANESE	mg/kg	9	9	100%	--	--	383	669	530	97	602	591	602	Log Normal
METAL	MERCURY	mg/kg	49	13	27%	0.050	0.20	0.050	0.30	0.099	0.038	0.11	0.11	0.11	Log Normal
METAL	NICKEL	mg/kg	34	34	100%	--	--	23	49	35	5.5	36	36	36	Log Normal
METAL	POTASSIUM	mg/kg	9	7	78%	400	400	440	610	456	156	659	553	553	Normal
METAL	SELENIUM	mg/kg	49	0	0%	0.40	1.0	--	--	0.43	0.11	0.48	0.46	--	--
METAL	SILVER	mg/kg	49	1	2%	0.40	2.0	0.60	0.60	0.76	0.36	1.0	0.85	0.60	Max Detect
METAL	SODIUM	mg/kg	9	9	100%	--	--	65	171	119	29	144	137	137	Normal
METAL	THALLIUM	mg/kg	9	0	0%	1.0	1.0	--	--	0.50	0	0.50	0.50	--	--
METAL	VANADIUM	mg/kg	9	9	100%	--	--	28	60	46	8.9	53	51	51	Normal
METAL	ZINC	mg/kg	9	9	100%	--	--	47	86	63	12	71	70	71	Log Normal
PEST/PCB	ALDRIN	mg/kg	52	6	12%	4.00E-04	0.020	7.00E-04	0.0030	0.0036	0.0023	0.0084	0.0042	0.0030	Max Detect
PEST/PCB	ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	mg/kg	52	0	0%	6.00E-04	0.010	--	--	0.0035	0.0022	0.0069	0.0040	--	--
PEST/PCB	ALPHA ENDOSULFAN	mg/kg	52	0	0%	3.00E-04	0.10	--	--	0.0058	0.010	0.019	0.0082	--	--

TABLE 2-4
Summary Statistics for Subsurface Soil Samples from Building 35-752 (0 to ~6 feet bgs)
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Analyte Class	Analyte	Units	Number of Samples	Number of Detects	Frequency of Detection	Minimum Nondetect	Maximum Nondetect	Minimum Detect	Maximum Detect[a]	Mean	Standard Deviation	95 UCL Lognormal Concentration	95 UCL Normal Concentration	Exposure Point Concentration	EPC Basis
PEST/PCB	ALPHA-CHLORDANE	mg/kg	1	0	0%	0.010	0.010	--	--	0.0050		0		--	--
PEST/PCB	BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	mg/kg	52	1	2%	0.0020	0.030	0.0060	0.0060	0.010	0.0065	0.020	0.012	0.0060	Max Detect
PEST/PCB	BETA ENDOSULFAN	mg/kg	52	0	0%	3.00E-04	0.10	--	--	0.0092	0.015	0.043	0.013	--	--
PEST/PCB	BHC (HEXACHLOROCYCLOHEXANE) ISOMERS	mg/kg	52	0	0%	5.00E-04	0.010	--	--	0.0034	0.0022	0.0078	0.0039	--	--
PEST/PCB	CHLORDANE	mg/kg	51	0	0%	0.020	0.80	--	--	0.053	0.068	0.066	0.068	--	--
PEST/PCB	DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	mg/kg	52	0	0%	8.00E-04	0.010	--	--	0.0035	0.0021	0.0061	0.0040	--	--
PEST/PCB	DIELDRIN	mg/kg	52	10	19%	3.00E-04	0.10	0.0020	0.011	0.0088	0.012	0.024	0.012	0.011	Max Detect
PEST/PCB	ENDOSULFAN SULFATE	mg/kg	52	0	0%	5.00E-04	0.10	--	--	0.0087	0.014	0.025	0.012	--	--
PEST/PCB	ENDRIN	mg/kg	52	1	2%	8.00E-04	0.80	0.034	0.034	0.021	0.062	0.042	0.035	0.034	Max Detect
PEST/PCB	ENDRIN ALDEHYDE	mg/kg	52	1	2%	5.00E-04	0.30	0.0030	0.0030	0.015	0.030	0.047	0.022	0.0030	Max Detect
PEST/PCB	ENDRIN KETONE	mg/kg	1	0	0%	5.00E-04	5.00E-04	--	--	2.50E-04		0		--	--
PEST/PCB	GAMMA-CHLORDANE	mg/kg	1	0	0%	8.00E-04	8.00E-04	--	--	4.00E-04		0		--	--
PEST/PCB	HEPTACHLOR	mg/kg	52	0	0%	5.00E-04	0.010	--	--	0.0034	0.0022	0.0078	0.0039	--	--
PEST/PCB	HEPTACHLOR EPOXIDE	mg/kg	52	0	0%	5.00E-04	0.10	--	--	0.0048	0.0077	0.0093	0.0066	--	--
PEST/PCB	METHOXYCHLOR	mg/kg	52	0	0%	0.0030	0.40	--	--	0.022	0.042	0.030	0.032	--	--
PEST/PCB	p,p'-DDD	mg/kg	52	22	42%	4.00E-04	0.15	6.00E-04	0.74	0.069	0.14	0.18	0.10	0.18	Log Normal
PEST/PCB	p,p'-DDE	mg/kg	52	16	31%	3.00E-04	0.10	5.00E-04	0.030	0.012	0.014	0.021	0.015	0.015	Normal
PEST/PCB	p,p'-DDT	mg/kg	49	15	31%	4.00E-04	0.50	0.0020	0.31	0.052	0.072	0.22	0.070	0.22	Log Normal
PEST/PCB	PCB-1016 (AROCLOR 1016)	mg/kg	111	0	0%	0.0029	0.10	--	--	0.022	0.021	0.042	0.025	--	--
PEST/PCB	PCB-1221 (AROCLOR 1221)	mg/kg	111	0	0%	0.0029	0.20	--	--	0.026	0.027	0.054	0.030	--	--
PEST/PCB	PCB-1232 (AROCLOR 1232)	mg/kg	111	0	0%	0.0029	0.20	--	--	0.027	0.028	0.059	0.032	--	--
PEST/PCB	PCB-1242 (AROCLOR 1242)	mg/kg	111	0	0%	0.0029	0.10	--	--	0.021	0.021	0.038	0.024	--	--
PEST/PCB	PCB-1248 (AROCLOR 1248)	mg/kg	111	0	0%	0.0029	1.6	--	--	0.027	0.074	0.043	0.039	--	--
PEST/PCB	PCB-1254 (AROCLOR 1254)	mg/kg	111	0	0%	0.0029	3.1	--	--	0.038	0.15	0.050	0.062	--	--
PEST/PCB	PCB-1260 (AROCLOR 1260)	mg/kg	111	96	86%	0.0034	0.33	0.0047	100	2.4	10	4.1	4.1	4.1	Normal
PEST/PCB	TOXAPHENE	mg/kg	52	0	0%	0.050	5.0	--	--	0.29	0.57	0.37	0.42	--	--
SVOC	2,4 DB	mg/kg	26	0	0%	0.50	0.50	--	--	0.25	0	0.25	0.25	--	--
SVOC	2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	mg/kg	26	0	0%	0.050	0.050	--	--	0.025	2.92E-10	0.025	0.025	--	--
SVOC	2,4,5-TRICHLOROPHENOL	mg/kg	51	0	0%	0.040	4.0	--	--	0.16	0.27	0.22	0.23	--	--
SVOC	2,4,6-TRICHLOROPHENOL	mg/kg	51	0	0%	0.040	4.0	--	--	0.16	0.27	0.22	0.23	--	--
SVOC	2,4-D (DICHLOROPHENOXYACETIC ACID)	mg/kg	26	0	0%	0.20	0.20	--	--	0.10	1.17E-09	0.10	0.10	--	--
SVOC	2,4-DICHLOROPHENOL	mg/kg	51	0	0%	0.040	4.0	--	--	0.16	0.27	0.22	0.23	--	--
SVOC	2,4-DIMETHYLPHENOL	mg/kg	51	0	0%	0.020	4.0	--	--	0.16	0.28	0.28	0.22	--	--
SVOC	2,4-DINITROPHENOL	mg/kg	51	0	0%	0.070	24	--	--	0.98	1.7	2.6	1.4	--	--
SVOC	2,4-DINITROTOLUENE	mg/kg	51	0	0%	0.030	4.0	--	--	0.16	0.28	0.24	0.22	--	--
SVOC	2,6-DINITROTOLUENE	mg/kg	51	0	0%	0.040	4.0	--	--	0.16	0.27	0.22	0.23	--	--
SVOC	2-CHLORONAPHTHALENE	mg/kg	51	0	0%	0.050	4.0	--	--	0.17	0.27	0.22	0.23	--	--
SVOC	2-CHLOROPHENOL	mg/kg	51	0	0%	0.050	4.0	--	--	0.17	0.27	0.22	0.23	--	--
SVOC	2-METHYLNAPHTHALENE	mg/kg	52	1	2%	0.050	4.0	0.026	0.026	0.17	0.27	0.21	0.23	0.026	Max Detect
SVOC	2-METHYLPHENOL (o-CRESOL)	mg/kg	51	0	0%	0.090	4.0	--	--	0.18	0.27	0.21	0.25	--	--
SVOC	2-NITROANILINE	mg/kg	51	0	0%	0.040	24	--	--	0.97	1.7	4.0	1.4	--	--
SVOC	2-NITROPHENOL	mg/kg	51	0	0%	0.050	4.0	--	--	0.17	0.27	0.22	0.23	--	--
SVOC	3&4-METHYLPHENOL	mg/kg	51	0	0%	0.050	4.0	--	--	0.17	0.27	0.22	0.23	--	--
SVOC	3,3'-DICHLOROBENZIDINE	mg/kg	51	0	0%	0.040	24	--	--	0.97	1.7	4.0	1.4	--	--
SVOC	3-NITROANILINE	mg/kg	51	0	0%	0.040	24	--	--	0.97	1.7	4.0	1.4	--	--
SVOC	4,6-DINITRO-2-METHYLPHENOL	mg/kg	51	0	0%	0.070	24	--	--	0.98	1.7	2.6	1.4	--	--
SVOC	4-BROMOPHENYL PHENYL ETHER	mg/kg	51	0	0%	0.060	4.0	--	--	0.17	0.27	0.21	0.24	--	--
SVOC	4-CHLORO-3-METHYLPHENOL	mg/kg	51	0	0%	0.040	4.0	--	--	0.16	0.27	0.22	0.23	--	--
SVOC	4-CHLOROANILINE	mg/kg	51	0	0%	0.040	4.0	--	--	0.16	0.27	0.22	0.23	--	--
SVOC	4-CHLOROPHENYL PHENYL ETHER	mg/kg	51	0	0%	0.050	4.0	--	--	0.17	0.27	0.22	0.23	--	--
SVOC	4-NITROANILINE	mg/kg	51	0	0%	0.070	24	--	--	0.98	1.7	2.6	1.4	--	--
SVOC	4-NITROPHENOL	mg/kg	51	0	0%	0.080	24	--	--	0.99	1.7	2.4	1.4	--	--
SVOC	ACENAPHTHENE	mg/kg	52	1	2%	0.050	4.0	0.023	0.023	0.17	0.27	0.21	0.23	0.023	Max Detect

TABLE 2-4
Summary Statistics for Subsurface Soil Samples from Building 35-752 (0 to ~6 feet bgs)
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Analyte Class	Analyte	Units	Number of Samples	Number of Detects	Frequency of Detection	Minimum Nondetect	Maximum Nondetect	Minimum Detect	Maximum Detect[a]	Mean	Standard Deviation	95 UCL Lognormal Concentration	95 UCL Normal Concentration	Exposure Point Concentration	EPC Basis
SVOC	ACENAPHTHYLENE	mg/kg	52	1	2%	0.050	4.0	0.012	0.012	0.17	0.27	0.22	0.23	0.012	Max Detect
SVOC	ANILINE (PHENYLAMINE, AMINOBENZENE)	mg/kg	51	0	0%	0.040	12	--	--	0.49	0.84	1.2	0.69	--	--
SVOC	ANTHRACENE	mg/kg	52	3	6%	0.040	4.0	0.029	1.2	0.19	0.31	0.26	0.26	0.26	Normal
SVOC	BENZO(a)ANTHRACENE	mg/kg	52	11	21%	0.040	4.0	0.10	1.5	0.24	0.35	0.32	0.32	0.32	Normal
SVOC	BENZO(a)PYRENE	mg/kg	52	12	23%	0.040	4.0	0.084	1.2	0.21	0.31	0.28	0.28	0.28	Normal
SVOC	BENZO(b)FLUORANTHENE	mg/kg	52	16	31%	0.040	4.0	0.10	2.0	0.30	0.43	0.44	0.40	0.40	Normal
SVOC	BENZO(g,h,i)PERYLENE	mg/kg	52	4	8%	0.050	4.0	0.049	0.50	0.18	0.27	0.23	0.24	0.24	Normal
SVOC	BENZO(k)FLUORANTHENE	mg/kg	52	16	31%	0.040	4.0	0.10	1.3	0.27	0.36	0.38	0.35	0.35	Normal
SVOC	BENZOIC ACID	mg/kg	51	0	0%	0.10	24	--	--	0.99	1.7	2.1	1.4	--	--
SVOC	BENZYL ALCOHOL	mg/kg	51	0	0%	0.040	4.0	--	--	0.16	0.27	0.22	0.23	--	--
SVOC	BENZYL BUTYL PHTHALATE	mg/kg	51	0	0%	0.040	4.0	--	--	0.16	0.27	0.22	0.23	--	--
SVOC	bis(2-CHLOROETHOXY) METHANE	mg/kg	51	0	0%	0.050	4.0	--	--	0.17	0.27	0.22	0.23	--	--
SVOC	bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	mg/kg	51	0	0%	0.050	4.0	--	--	0.17	0.27	0.22	0.23	--	--
SVOC	bis(2-CHLOROISOPROPYL) ETHER	mg/kg	51	0	0%	0.050	4.0	--	--	0.17	0.27	0.22	0.23	--	--
SVOC	bis(2-ETHYLHEXYL) PHTHALATE	mg/kg	51	14	27%	0.050	4.0	0.10	7.0[b]	0.38	1.0	0.39	0.62	0.62	Normal
SVOC	CHRYSENE	mg/kg	52	16	31%	0.040	4.0	0.20	2.4	0.35	0.49	0.53	0.47	0.47	Normal
SVOC	DALAPON	mg/kg	26	0	0%	1.0	2.0	--	--	0.52	0.098	0.54	0.55	--	--
SVOC	DIBENZ(a,h)ANTHRACENE	mg/kg	52	1	2%	0.040	4.0	0.016	0.016	0.16	0.27	0.22	0.22	0.016	Max Detect
SVOC	DIBENZOFURAN	mg/kg	52	1	2%	0.050	4.0	0.027	0.027	0.17	0.27	0.21	0.23	0.027	Max Detect
SVOC	DICAMBA	mg/kg	26	0	0%	0.10	0.10	--	--	0.050	5.84E-10	0.050	0.050	--	--
SVOC	DICHLOROPROP	mg/kg	26	0	0%	0.10	0.10	--	--	0.050	5.84E-10	0.050	0.050	--	--
SVOC	DIETHYL PHTHALATE	mg/kg	51	0	0%	0.050	4.0	--	--	0.17	0.27	0.22	0.23	--	--
SVOC	DIMETHYL PHTHALATE	mg/kg	51	0	0%	0.050	4.0	--	--	0.17	0.27	0.22	0.23	--	--
SVOC	DI-n-BUTYL PHTHALATE	mg/kg	51	0	0%	0.050	4.0	--	--	0.17	0.27	0.22	0.23	--	--
SVOC	DI-n-OCTYLPHTHALATE	mg/kg	51	3	6%	0.040	4.0	0.36	1.3	0.20	0.34	0.29	0.28	0.28	Normal
SVOC	DINOSEB	mg/kg	26	0	0%	0.50	0.50	--	--	0.25	0	0.25	0.25	--	--
SVOC	FLUORANTHENE	mg/kg	52	17	33%	0.040	4.0	0.30	5.7	0.64	1.2	1.1	0.91	0.91	Normal
SVOC	FLUORENE	mg/kg	52	2	4%	0.040	4.0	0.037	0.10	0.16	0.27	0.22	0.23	0.10	Max Detect
SVOC	HEXACHLOROBENZENE	mg/kg	51	0	0%	0.060	4.0	--	--	0.17	0.27	0.21	0.24	--	--
SVOC	HEXACHLOROCYCLOPENTADIENE	mg/kg	51	0	0%	0.040	4.0	--	--	0.16	0.27	0.22	0.23	--	--
SVOC	HEXACHLOROETHANE	mg/kg	51	0	0%	0.050	4.0	--	--	0.17	0.27	0.22	0.23	--	--
SVOC	INDENO(1,2,3-c,d)PYRENE	mg/kg	52	5	10%	0.040	4.0	0.056	0.50	0.18	0.28	0.25	0.24	0.24	Normal
SVOC	ISOPHORONE	mg/kg	51	0	0%	0.050	4.0	--	--	0.17	0.27	0.22	0.23	--	--
SVOC	MCPA	mg/kg	26	0	0%	20	20	--	--	10	0	10.0	10	--	--
SVOC	MCPP	mg/kg	26	0	0%	20	20	--	--	10	0	10.0	10	--	--
SVOC	NITROBENZENE	mg/kg	51	0	0%	0.060	4.0	--	--	0.17	0.27	0.21	0.24	--	--
SVOC	N-NITROSODIMETHYLAMINE	mg/kg	51	0	0%	0.040	24	--	--	0.97	1.7	4.0	1.4	--	--
SVOC	N-NITROSODI-n-PROPYLAMINE	mg/kg	51	0	0%	0.050	4.0	--	--	0.17	0.27	0.22	0.23	--	--
SVOC	N-NITROSODIPHENYLAMINE	mg/kg	51	0	0%	0.040	4.0	--	--	0.16	0.27	0.22	0.23	--	--
SVOC	PENTACHLOROPHENOL	mg/kg	51	0	0%	0.020	24	--	--	0.96	1.7	7.8	1.4	--	--
SVOC	PHENANTHRENE	mg/kg	52	15	29%	0.040	4.0	0.10	3.5	0.38	0.64	0.54	0.53	0.53	Normal
SVOC	PHENOL	mg/kg	51	0	0%	0.050	4.0	--	--	0.17	0.27	0.22	0.23	--	--
SVOC	PYRENE	mg/kg	52	18	35%	0.040	4.0	0.10	5.4	0.51	0.97	0.77	0.74	0.74	Normal
SVOC	SILVEX (2,4,5-TP)	mg/kg	26	0	0%	0.050	0.050	--	--	0.025	2.92E-10	0.025	0.025	--	--
TPH	BUNKER FUEL #6D	mg/kg	2	0	0%	10	92	--	--	26	29	4.88E+15	155	--	--
TPH	DIESEL RANGE ORGANICS	mg/kg	56	46	82%	2.1	18	1.4	2,300	170	387	446	256	446	Log Normal
TPH	GASOLINE RANGE ORGANICS	mg/kg	49	3	6%	0.21	18	0.27	0.35	2.6	1.4	3.8	2.9	0.35	Max Detect
TPH	JET FUEL JET A	mg/kg	2	0	0%	2.1	18	--	--	5.0	5.6	1.21E+14	30	--	--
TPH	KEROSENE	mg/kg	2	0	0%	2.1	18	--	--	5.0	5.6	1.21E+14	30	--	--
TPH	TOTAL PETROLEUM HYDROCARBONS	mg/kg	34	32	94%	10	10	13	1,500	181	284	419	263	419	Log Normal
VOC	1,1,1,2-TETRACHLOROETHANE	mg/kg	50	0	0%	0.0020	0.010	--	--	0.0023	8.28E-04	0.0025	0.0025	--	--
VOC	1,1,1-TRICHLOROETHANE	mg/kg	50	2	4%	0.0020	0.012	0.010	0.014	0.0027	0.0022	0.0031	0.0032	0.0031	Log Normal
VOC	1,1,2,2-TETRACHLOROETHANE	mg/kg	50	0	0%	0.0020	0.010	--	--	0.0023	8.28E-04	0.0025	0.0025	--	--

TABLE 2-4
Summary Statistics for Subsurface Soil Samples from Building 35-752 (0 to ~6 feet bgs)
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Analyte Class	Analyte	Units	Number of Samples	Number of Detects	Frequency of Detection	Minimum Nondetect	Maximum Nondetect	Minimum Detect	Maximum Detect[a]	Mean	Standard Deviation	95 UCL Lognormal Concentration	95 UCL Normal Concentration	Exposure Point Concentration	EPC Basis
VOC	1,1,2-TRICHLOROETHANE	mg/kg	50	0	0%	0.0020	0.010	--	--	0.0023	8.28E-04	0.0025	0.0025	--	--
VOC	1,1-DICHLOROETHANE	mg/kg	50	0	0%	0.0010	0.010	--	--	0.0020	0.0010	0.0026	0.0023	--	--
VOC	1,1-DICHLOROETHENE	mg/kg	50	0	0%	9.00E-04	0.010	--	--	0.0020	0.0011	0.0027	0.0023	--	--
VOC	1,1-DICHLOROPROPENE	mg/kg	50	0	0%	9.00E-04	0.010	--	--	0.0020	0.0011	0.0027	0.0023	--	--
VOC	1,2,3-TRICHLOROBENZENE	mg/kg	50	0	0%	6.00E-04	0.040	--	--	0.0074	0.0051	0.022	0.0086	--	--
VOC	1,2,3-TRICHLOROPROPANE	mg/kg	50	0	0%	0.0020	0.010	--	--	0.0023	8.28E-04	0.0025	0.0025	--	--
VOC	1,2,4-TRICHLOROBENZENE	mg/kg	51	0	0%	6.00E-04	0.050	--	--	0.0077	0.0056	0.023	0.0090	--	--
VOC	1,2,4-TRIMETHYLBENZENE	mg/kg	50	3	6%	7.00E-04	0.040	8.00E-04	0.034	0.0081	0.0066	0.022	0.0097	0.0097	Normal
VOC	1,2-DIBROMO-3-CHLOROPROPANE	mg/kg	50	0	0%	0.0020	0.040	--	--	0.0077	0.0047	0.012	0.0088	--	--
VOC	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	mg/kg	50	0	0%	0.0020	0.040	--	--	0.0077	0.0047	0.012	0.0088	--	--
VOC	1,2-DICHLOROBENZENE	mg/kg	53	0	0%	8.00E-04	0.050	--	--	0.0028	0.0038	0.0037	0.0037	--	--
VOC	1,2-DICHLOROETHANE	mg/kg	50	0	0%	0.0020	0.010	--	--	0.0023	8.28E-04	0.0025	0.0025	--	--
VOC	1,2-DICHLOROPROPANE	mg/kg	50	0	0%	0.0020	0.010	--	--	0.0023	8.28E-04	0.0025	0.0025	--	--
VOC	1,3,5-TRIMETHYLBENZENE (MESITYLENE)	mg/kg	50	2	4%	8.00E-04	0.040	0.0010	0.0040	0.0075	0.0050	0.018	0.0087	0.0040	Max Detect
VOC	1,3-DICHLOROBENZENE	mg/kg	53	0	0%	8.00E-04	0.050	--	--	0.0028	0.0038	0.0037	0.0037	--	--
VOC	1,3-DICHLOROPROPANE	mg/kg	50	0	0%	0.0020	0.010	--	--	0.0023	8.28E-04	0.0025	0.0025	--	--
VOC	1,4-DICHLOROBENZENE	mg/kg	51	3	6%	6.00E-04	0.050	0.0060	0.015	0.0028	0.0039	0.0040	0.0037	0.0037	Normal
VOC	2,2-DICHLOROPROPANE	mg/kg	50	0	0%	5.00E-04	0.010	--	--	0.0019	0.0012	0.0031	0.0022	--	--
VOC	2-CHLOROTOLUENE	mg/kg	50	2	4%	0.0010	0.040	0.0070	0.010	0.0077	0.0049	0.018	0.0089	0.0089	Normal
VOC	2-HEXANONE	mg/kg	50	0	0%	0.0040	0.040	--	--	0.0082	0.0042	0.011	0.0092	--	--
VOC	4-CHLOROTOLUENE	mg/kg	50	0	0%	9.00E-04	0.040	--	--	0.0074	0.0051	0.018	0.0086	--	--
VOC	ACETONE	mg/kg	50	19	38%	0.030	0.090	0.051	0.57	0.088	0.12	0.12	0.12	0.12	Log Normal
VOC	BENZENE	mg/kg	52	0	0%	0.0020	0.012	--	--	0.0024	0.0011	0.0027	0.0026	--	--
VOC	BROMOBENZENE	mg/kg	50	0	0%	0.0020	0.010	--	--	0.0023	8.28E-04	0.0025	0.0025	--	--
VOC	BROMOCHLOROMETHANE	mg/kg	50	0	0%	0.0020	0.010	--	--	0.0023	8.28E-04	0.0025	0.0025	--	--
VOC	BROMODICHLOROMETHANE	mg/kg	50	0	0%	0.0020	0.010	--	--	0.0023	8.28E-04	0.0025	0.0025	--	--
VOC	BROMOFORM	mg/kg	50	0	0%	0.0020	0.010	--	--	0.0023	8.28E-04	0.0025	0.0025	--	--
VOC	BROMOMETHANE	mg/kg	50	0	0%	0.0020	0.010	--	--	0.0023	8.28E-04	0.0025	0.0025	--	--
VOC	CARBON DISULFIDE	mg/kg	50	0	0%	0.0020	0.010	--	--	0.0023	8.28E-04	0.0025	0.0025	--	--
VOC	CARBON TETRACHLORIDE	mg/kg	50	0	0%	0.0010	0.010	--	--	0.0020	0.0010	0.0026	0.0023	--	--
VOC	CHLOROBENZENE	mg/kg	52	0	0%	0.0020	0.012	--	--	0.0024	0.0011	0.0027	0.0026	--	--
VOC	CHLOROETHANE	mg/kg	50	0	0%	7.00E-04	0.010	--	--	0.0020	0.0011	0.0028	0.0023	--	--
VOC	CHLOROFORM	mg/kg	50	0	0%	0.0020	0.010	--	--	0.0023	8.28E-04	0.0025	0.0025	--	--
VOC	CHLOROMETHANE	mg/kg	50	0	0%	9.00E-04	0.010	--	--	0.0020	0.0011	0.0027	0.0023	--	--
VOC	cis-1,2-DICHLOROETHYLENE	mg/kg	50	0	0%	8.00E-04	0.010	--	--	0.0020	0.0011	0.0027	0.0023	--	--
VOC	cis-1,3-DICHLOROPROPENE	mg/kg	50	0	0%	0.0010	0.010	--	--	0.0020	0.0010	0.0026	0.0023	--	--
VOC	CYMENE	mg/kg	50	0	0%	8.00E-04	0.040	--	--	0.0074	0.0051	0.019	0.0086	--	--
VOC	DIBROMOCHLOROMETHANE	mg/kg	50	0	0%	0.0020	0.010	--	--	0.0023	8.28E-04	0.0025	0.0025	--	--
VOC	DIBROMOMETHANE	mg/kg	50	0	0%	0.0020	0.010	--	--	0.0023	8.28E-04	0.0025	0.0025	--	--
VOC	DICHLORODIFLUOROMETHANE	mg/kg	50	0	0%	9.00E-04	0.010	--	--	0.0020	0.0011	0.0027	0.0023	--	--
VOC	ETHYLBENZENE	mg/kg	52	1	2%	0.0020	0.012	0.0060	0.0060	0.0025	0.0012	0.0028	0.0027	0.0027	Normal
VOC	HEXACHLOROBUTADIENE	mg/kg	51	0	0%	5.00E-04	0.050	--	--	0.0077	0.0057	0.029	0.0090	--	--
VOC	METHYL ETHYL KETONE (2-BUTANONE)	mg/kg	50	15	30%	0.0030	0.020	0.0030	0.11	0.017	0.020	0.024	0.022	0.024	Log Normal
VOC	METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	mg/kg	50	0	0%	0.0040	0.040	--	--	0.0082	0.0042	0.011	0.0092	--	--
VOC	METHYLENE CHLORIDE	mg/kg	50	1	2%	0.0030	0.020	0.020	0.020	0.0046	0.0029	0.0054	0.0053	0.0054	Log Normal
VOC	M-XYLENE (1,3-DIMETHYLBENZENE)	mg/kg	2	0	0%	0.011	0.012	--	--	0.0058	3.54E-04	0.0068	0.0073	--	--
VOC	NAPHTHALENE	mg/kg	52	3	6%	7.00E-04	0.060	7.00E-04	0.031	0.0084	0.0067	0.022	0.0099	0.0099	Normal
VOC	n-BUTYLBENZENE	mg/kg	50	0	0%	6.00E-04	0.040	--	--	0.0074	0.0051	0.022	0.0086	--	--
VOC	n-PROPYLBENZENE	mg/kg	50	2	4%	7.00E-04	0.040	0.030	0.18	0.012	0.025	0.029	0.017	0.029	Log Normal
VOC	P-CYMENE (p-ISOPROPYLTOLUENE)	mg/kg	50	1	2%	6.00E-04	0.040	0.13	0.13	0.0100	0.018	0.027	0.014	0.027	Log Normal
VOC	SEC-BUTYLBENZENE	mg/kg	50	0	0%	7.00E-04	0.040	--	--	0.0074	0.0051	0.020	0.0086	--	--
VOC	STYRENE	mg/kg	50	0	0%	0.0010	0.010	--	--	0.0020	0.0010	0.0026	0.0023	--	--
VOC	t-BUTYLBENZENE	mg/kg	50	0	0%	0.0020	0.040	--	--	0.0077	0.0047	0.012	0.0088	--	--

TABLE 2-4
Summary Statistics for Subsurface Soil Samples from Building 35-752 (0 to ~6 feet bgs)
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Analyte Class	Analyte	Units	Number of Samples	Number of Detects	Frequency of Detection	Minimum Nondetect	Maximum Nondetect	Minimum Detect	Maximum Detect[a]	Mean	Standard Deviation	95 UCL Lognormal Concentration	95 UCL Normal Concentration	Exposure Point Concentration	EPC Basis
VOC	TETRACHLOROETHYLENE(PCE)	mg/kg	50	0	0%	9.00E-04	0.010	--	--	0.0020	0.0011	0.0027	0.0023	--	--
VOC	TOLUENE	mg/kg	52	7	13%	0.0020	0.010	0.0050	0.023	0.0033	0.0039	0.0037	0.0042	0.0042	Normal
VOC	trans-1,2-DICHLOROETHENE	mg/kg	50	0	0%	0.0040	0.020	--	--	0.0028	0.0013	0.0030	0.0031	--	--
VOC	trans-1,3-DICHLOROPROPENE	mg/kg	50	0	0%	0.0020	0.010	--	--	0.0023	8.28E-04	0.0025	0.0025	--	--
VOC	TRICHLOROETHYLENE (TCE)	mg/kg	50	4	8%	0.0010	0.010	0.0060	0.016	0.0026	0.0025	0.0034	0.0032	0.0034	Log Normal
VOC	TRICHLOROFLUOROMETHANE	mg/kg	50	0	0%	7.00E-04	0.010	--	--	0.0020	0.0011	0.0028	0.0023	--	--
VOC	VINYL CHLORIDE	mg/kg	50	0	0%	7.00E-04	0.010	--	--	0.0020	0.0011	0.0028	0.0023	--	--
VOC	XYLENES, o & p	mg/kg	2	0	0%	0.011	0.012	--	--	0.0058	3.54E-04	0.0068	0.0073	--	--
VOC	XYLENES, TOTAL	mg/kg	50	7	14%	0.0030	0.010	0.0060	0.038	0.0039	0.0054	0.0042	0.0051	0.0042	Log Normal

Notes
95 UCL = 95% upper confidence limit of the mean
PEST/PCB - Pesticides/Polychlorinated Biphenyls
SVOC - Semivolatile Organic Compounds
TPH - Total Petroleum Hydrocarbons
VOC - Volatile Organic Compounds
[a] The maximum detected concentration is also the exposure point concentration (EPC)
[b] This maximum concentration for bis(2-ethylhexyl) phthalate has a laboratory qualifier of B, which indicates there was contamination in the blank. This sample is from the 1996 dataset and it was assumed that this value was evaluated and retained according to appropriate quality control/quality assurance procedures.

TABLE 2-5
Summary Statistics for Surface Soil Samples from Building 35-752 (0 to 1 foot bgs
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Analyte Class	Analyte	Units	Number of Samples	Number of Detects	Frequency of Detection	Minimum Nondetect	Maximum Nondetect	Minimum Detect	Maximum Detect	Mean	Standard Deviation	95 UCL Lognormal Concentration	95 UCL Normal Concentration	Exposure Point Concentration	EPC Basis
DIOXIN/FURAN	1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	mg/kg	11	10	91%	1.00E-05	1.00E-05	3.50E-06	1.66E-04	4.57E-05	5.50E-05	2.82E-04	7.58E-05	1.66E-04	Max Detect
DIOXIN/FURAN	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN	mg/kg	11	11	100%	--	--	2.90E-06	5.18E-04	1.13E-04	1.59E-04	0.0012	2.00E-04	5.18E-04	Max Detect
DIOXIN/FURAN	1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	mg/kg	11	10	91%	1.00E-05	1.00E-05	1.40E-06	2.37E-05	9.11E-06	8.21E-06	2.74E-05	1.36E-05	2.37E-05	Max Detect
DIOXIN/FURAN	1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	mg/kg	11	10	91%	8.00E-06	8.00E-06	1.60E-06	5.81E-05	1.63E-05	1.89E-05	7.08E-05	2.66E-05	5.81E-05	Max Detect
DIOXIN/FURAN	1,2,3,4,7,8-HEXACHLORODIBENZO-p-DIOXIN	mg/kg	11	4	36%	9.30E-07	1.00E-05	6.30E-07	2.60E-06	1.31E-06	1.45E-06	2.76E-06	2.10E-06	2.60E-06	Max Detect
DIOXIN/FURAN	1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	mg/kg	11	9	82%	1.00E-06	1.00E-05	4.00E-07	6.80E-06	2.85E-06	2.41E-06	9.06E-06	4.16E-06	6.80E-06	Max Detect
DIOXIN/FURAN	1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	mg/kg	11	7	64%	1.49E-06	2.00E-05	3.10E-07	1.17E-05	3.79E-06	4.03E-06	1.56E-05	5.99E-06	1.17E-05	Max Detect
DIOXIN/FURAN	1,2,3,7,8,9-HEXACHLORODIBENZOFURAN	mg/kg	11	0	0%	3.80E-07	1.00E-05	--	--	6.31E-07	1.45E-06	1.06E-06	1.42E-06	--	--
DIOXIN/FURAN	1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	mg/kg	11	6	55%	1.39E-06	1.00E-05	1.60E-06	6.20E-06	2.42E-06	2.01E-06	5.34E-06	3.52E-06	5.34E-06	Log Normal
DIOXIN/FURAN	1,2,3,7,8-PENTACHLORODIBENZOFURAN	mg/kg	11	1	9%	9.30E-07	7.00E-06	8.32E-05	8.32E-05	8.27E-06	2.49E-05	3.02E-05	2.19E-05	3.02E-05	Log Normal
DIOXIN/FURAN	1,2,3,7,8-PENTACHLORODIBENZO-p-DIOXIN	mg/kg	11	1	9%	4.80E-07	2.00E-05	6.40E-07	6.40E-07	1.17E-06	2.93E-06	2.27E-06	2.77E-06	6.40E-07	Max Detect
DIOXIN/FURAN	2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	mg/kg	11	8	73%	2.88E-06	1.00E-05	3.40E-07	4.70E-06	2.59E-06	1.80E-06	7.00E-06	3.57E-06	4.70E-06	Max Detect
DIOXIN/FURAN	2,3,4,7,8-PENTACHLORODIBENZOFURAN	mg/kg	11	7	64%	9.90E-07	1.00E-05	4.25E-07	4.90E-06	2.23E-06	1.99E-06	6.97E-06	3.32E-06	4.90E-06	Max Detect
DIOXIN/FURAN	2,3,7,8-TETRACHLORODIBENZOFURAN	mg/kg	11	9	82%	5.10E-07	7.00E-06	4.50E-07	5.20E-06	2.03E-06	1.83E-06	5.71E-06	3.03E-06	5.20E-06	Max Detect
DIOXIN/FURAN	2,3,7,8-TETRACHLORODIBENZO-p-DIOXIN	mg/kg	11	1	9%	6.90E-07	1.00E-05	2.60E-07	2.60E-07	7.63E-07	1.41E-06	1.20E-06	1.53E-06	2.60E-07	Max Detect
DIOXIN/FURAN	HEPTACHLORINATED DIBENZOFURANS, (TOTAL)	mg/kg	10	10	100%	--	--	8.50E-06	8.67E-04	1.90E-04	2.74E-04	0.0020	3.49E-04	8.67E-04	Max Detect
DIOXIN/FURAN	HEPTACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	mg/kg	10	10	100%	--	--	5.80E-06	8.20E-04	2.44E-04	2.76E-04	0.0048	4.04E-04	8.20E-04	Max Detect
DIOXIN/FURAN	HEXACHLORINATED DIBENZOFURANS, (TOTAL)	mg/kg	10	10	100%	--	--	1.39E-05	3.78E-04	1.25E-04	1.40E-04	6.92E-04	2.06E-04	3.78E-04	Max Detect
DIOXIN/FURAN	HEXACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	mg/kg	10	10	100%	--	--	3.90E-07	5.33E-05	1.73E-05	1.98E-05	6.68E-04	2.88E-05	5.33E-05	Max Detect
DIOXIN/FURAN	OCTACHLORODIBENZOFURAN	mg/kg	11	10	91%	3.00E-05	3.00E-05	8.50E-06	7.87E-04	1.68E-04	2.46E-04	0.0015	3.02E-04	7.87E-04	Max Detect
DIOXIN/FURAN	OCTACHLORODIBENZO-p-DIOXIN	mg/kg	11	11	100%	--	--	1.71E-05	0.0045	9.03E-04	0.0014	0.014	0.0017	0.0045	Max Detect
DIOXIN/FURAN	PENTACHLORINATED DIBENZOFURANS, (TOTAL)	mg/kg	10	10	100%	--	--	1.77E-05	2.10E-04	9.60E-05	6.68E-05	2.21E-04	1.35E-04	2.10E-04	Max Detect
DIOXIN/FURAN	PENTACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	mg/kg	10	7	70%	4.90E-07	4.90E-07	6.40E-07	8.60E-06	1.82E-06	2.60E-06	7.55E-06	3.33E-06	7.55E-06	Log Normal
DIOXIN/FURAN	TETRACHLORINATED DIBENZOFURANS, (TOTAL)	mg/kg	10	10	100%	--	--	1.37E-05	1.28E-04	5.31E-05	3.94E-05	1.27E-04	7.59E-05	7.59E-05	Normal
DIOXIN/FURAN	TETRACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	mg/kg	10	10	100%	--	--	4.30E-07	5.60E-06	1.80E-06	2.03E-06	4.40E-06	2.98E-06	4.40E-06	Log Normal
DIOXIN/FURAN	Total TCDD-Bird	mg/kg	11	11	100%	--	--	2.10E-06	2.68E-05	1.04E-05	8.67E-06	2.94E-05	1.51E-05	2.68E-05	Max Detect
DIOXIN/FURAN	Total TCDD-Mammal	mg/kg	11	11	100%	--	--	1.62E-06	2.27E-05	8.43E-06	7.35E-06	2.45E-05	1.24E-05	2.27E-05	Max Detect
METAL	ALUMINUM	mg/kg	8	8	100%	--	--	8,620	18,700	14,921	3,196	18,074	17,063	17,063	Normal
METAL	ANTIMONY	mg/kg	8	0	0%	10	10	--	--	5.0	0	5.0	5.0	--	--
METAL	ARSENIC	mg/kg	28	28	100%	--	--	3.0	8.0	5.0	1.6	5.6	5.5	5.6	Log Normal
METAL	BARIUM	mg/kg	28	28	100%	--	--	38	220	86	36	98	97	98	Log Normal
METAL	BERYLLIUM	mg/kg	8	0	0%	1.0	1.0	--	--	0.50	0	0.50	0.50	--	--
METAL	CADMIUM	mg/kg	28	3	11%	0.50	1.0	0.50	2.0	0.49	0.34	0.58	0.60	0.58	Log Normal
METAL	CALCIUM	mg/kg	8	8	100%	--	--	3,150	7,220	4,560	1,343	5,654	5,460	5,654	Log Normal
METAL	CHROMIUM, TOTAL	mg/kg	28	28	100%	--	--	23	64	36	8.8	38	38	38	Log Normal
METAL	COBALT	mg/kg	8	8	100%	--	--	7.0	13	11	1.8	12	12	12	Normal
METAL	COPPER	mg/kg	8	8	100%	--	--	20	34	28	5.2	32	31	31	Normal
METAL	IRON	mg/kg	8	8	100%	--	--	18,500	30,900	24,981	4,206	28,355	27,799	27,799	Normal
METAL	LEAD	mg/kg	28	27	96%	4.0	4.0	6.0	200	35	41	57	49	57	Log Normal
METAL	MAGNESIUM	mg/kg	8	8	100%	--	--	5,930	10,300	7,566	1,388	8,610	8,496	8,610	Log Normal
METAL	MANGANESE	mg/kg	8	8	100%	--	--	383	669	518	96	594	583	594	Log Normal
METAL	MERCURY	mg/kg	28	10	36%	0.050	0.20	0.050	0.30	0.10	0.049	0.12	0.12	0.12	Log Normal
METAL	NICKEL	mg/kg	16	16	100%	--	--	23	49	35	6.8	39	38	39	Log Normal
METAL	POTASSIUM	mg/kg	8	6	75%	400	400	440	610	442	161	674	549	549	Normal
METAL	SELENIUM	mg/kg	28	0	0%	0.40	1.0	--	--	0.42	0.11	0.47	0.45	--	--
METAL	SILVER	mg/kg	28	1	4%	0.40	2.0	0.60	0.60	0.67	0.39	1.0	0.80	0.60	Max Detect
METAL	SODIUM	mg/kg	8	8	100%	--	--	65	171	117	30	146	137	137	Normal
METAL	THALLIUM	mg/kg	8	0	0%	1.0	1.0	--	--	0.50	0	0.50	0.50	--	--
METAL	VANADIUM	mg/kg	8	8	100%	--	--	28	60	46	9.3	54	52	52	Normal
METAL	ZINC	mg/kg	8	8	100%	--	--	47	86	63	13	73	71	73	Log Normal
PEST/PCB	ALDRIN	mg/kg	29	6	21%	4.00E-04	0.020	7.00E-04	0.0030	0.0034	0.0025	0.0091	0.0041	0.0030	Max Detect
PEST/PCB	ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	mg/kg	29	0	0%	6.00E-04	0.010	--	--	0.0030	0.0022	0.0071	0.0037	--	--
PEST/PCB	ALPHA ENDOSULFAN	mg/kg	29	0	0%	3.00E-04	0.10	--	--	0.0046	0.0091	0.020	0.0074	--	--
PEST/PCB	ALPHA-CHLORDANE	mg/kg	1	0	0%	0.010	0.010	--	--	0.0050	--	--	--	--	--
PEST/PCB	BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	mg/kg	29	1	3%	0.0020	0.030	0.0060	0.0060	0.0091	0.0067	0.020	0.011	0.0060	Max Detect
PEST/PCB	BETA ENDOSULFAN	mg/kg	29	0	0%	3.00E-04	0.10	--	--	0.0068	0.012	0.044	0.011	--	--
PEST/PCB	BHC (HEXACHLOROCYCLOHEXANE) ISOMERS	mg/kg	29	0	0%	5.00E-04	0.010	--	--	0.0029	0.0023	0.0082	0.0037	--	--

TABLE 2-5
Summary Statistics for Surface Soil Samples from Building 35-752 (0 to 1 foot bgs
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Analyte Class	Analyte	Units	Number of Samples	Number of Detects	Frequency of Detection	Minimum Nondetect	Maximum Nondetect	Minimum Detect	Maximum Detect	Mean	Standard Deviation	95 UCL Lognormal Concentration	95 UCL Normal Concentration	Exposure Point Concentration	EPC Basis
PEST/PCB	CHLORDANE	mg/kg	28	0	0%	0.020	0.80	--	--	0.062	0.090	0.092	0.091	--	--
PEST/PCB	DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	mg/kg	29	0	0%	8.00E-04	0.010	--	--	0.0031	0.0022	0.0062	0.0038	--	--
PEST/PCB	DIELDRIN	mg/kg	29	9	31%	3.00E-04	0.10	0.0020	0.011	0.0081	0.011	0.026	0.012	0.011	Max Detect
PEST/PCB	ENDOSULFAN SULFATE	mg/kg	29	0	0%	5.00E-04	0.10	--	--	0.0069	0.012	0.026	0.011	--	--
PEST/PCB	ENDRIN	mg/kg	29	1	3%	8.00E-04	0.80	0.034	0.034	0.022	0.074	0.058	0.046	0.034	Max Detect
PEST/PCB	ENDRIN ALDEHYDE	mg/kg	29	1	3%	5.00E-04	0.30	0.0030	0.0030	0.014	0.029	0.076	0.023	0.0030	Max Detect
PEST/PCB	ENDRIN KETONE	mg/kg	1	0	0%	5.00E-04	5.00E-04	--	--	2.50E-04	--	--	--	--	--
PEST/PCB	GAMMA-CHLORDANE	mg/kg	1	0	0%	8.00E-04	8.00E-04	--	--	4.00E-04	--	--	--	--	--
PEST/PCB	HEPTACHLOR	mg/kg	29	0	0%	5.00E-04	0.010	--	--	0.0029	0.0023	0.0083	0.0037	--	--
PEST/PCB	HEPTACHLOR EPOXIDE	mg/kg	29	0	0%	5.00E-04	0.010	--	--	0.0030	0.0022	0.0072	0.0037	--	--
PEST/PCB	METHOXYCHLOR	mg/kg	29	0	0%	0.0030	0.40	--	--	0.024	0.047	0.041	0.039	--	--
PEST/PCB	p,p'-DDD	mg/kg	29	17	59%	0.010	0.10	0.0010	0.74	0.10	0.17	0.38	0.16	0.38	Log Normal
PEST/PCB	p,p'-DDE	mg/kg	29	13	45%	0.010	0.10	5.00E-04	0.030	0.012	0.013	0.020	0.016	0.020	Log Normal
PEST/PCB	p,p'-DDT	mg/kg	28	12	43%	4.00E-04	0.50	0.0090	0.31	0.068	0.085	0.41	0.096	0.31	Max Detect
PEST/PCB	PCB-1016 (AROCLOR 1016)	mg/kg	65	0	0%	0.0029	0.10	--	--	0.020	0.021	0.043	0.024	--	--
PEST/PCB	PCB-1221 (AROCLOR 1221)	mg/kg	65	0	0%	0.0029	0.20	--	--	0.026	0.031	0.063	0.033	--	--
PEST/PCB	PCB-1232 (AROCLOR 1232)	mg/kg	65	0	0%	0.0029	0.20	--	--	0.028	0.031	0.071	0.034	--	--
PEST/PCB	PCB-1242 (AROCLOR 1242)	mg/kg	65	0	0%	0.0029	0.10	--	--	0.019	0.020	0.037	0.023	--	--
PEST/PCB	PCB-1248 (AROCLOR 1248)	mg/kg	65	0	0%	0.0029	0.10	--	--	0.019	0.020	0.037	0.023	--	--
PEST/PCB	PCB-1254 (AROCLOR 1254)	mg/kg	65	0	0%	0.0029	1.0	--	--	0.025	0.063	0.044	0.038	--	--
PEST/PCB	PCB-1260 (AROCLOR 1260)	mg/kg	65	61	94%	0.10	0.33	0.025	100	3.5	13	4.3	6.3	6.3	Normal
PEST/PCB	TOXAPHENE	mg/kg	29	0	0%	0.050	5.0	--	--	0.32	0.66	0.51	0.53	--	--
SVOC	2,4 DB	mg/kg	8	0	0%	0.50	0.50	--	--	0.25	0	0.25	0.25	--	--
SVOC	2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	mg/kg	8	0	0%	0.050	0.050	--	--	0.025	4.98E-10	0.025	0.025	--	--
SVOC	2,4,5-TRICHLOROPHENOL	mg/kg	28	0	0%	0.040	4.0	--	--	0.18	0.37	0.29	0.30	--	--
SVOC	2,4,6-TRICHLOROPHENOL	mg/kg	28	0	0%	0.040	4.0	--	--	0.18	0.37	0.29	0.30	--	--
SVOC	2,4-D (DICHLOROPHENOXYACETIC ACID)	mg/kg	8	0	0%	0.20	0.20	--	--	0.10	1.99E-09	0.10	0.10	--	--
SVOC	2,4-DICHLOROPHENOL	mg/kg	28	0	0%	0.040	4.0	--	--	0.18	0.37	0.29	0.30	--	--
SVOC	2,4-DIMETHYLPHENOL	mg/kg	28	0	0%	0.020	4.0	--	--	0.17	0.37	0.38	0.29	--	--
SVOC	2,4-DINITROPHENOL	mg/kg	28	0	0%	0.070	24	--	--	1.0	2.2	3.6	1.8	--	--
SVOC	2,4-DINITROTOLUENE	mg/kg	28	0	0%	0.030	4.0	--	--	0.18	0.37	0.32	0.30	--	--
SVOC	2,6-DINITROTOLUENE	mg/kg	28	0	0%	0.040	4.0	--	--	0.18	0.37	0.29	0.30	--	--
SVOC	2-CHLORONAPHTHALENE	mg/kg	28	0	0%	0.050	4.0	--	--	0.19	0.36	0.27	0.31	--	--
SVOC	2-CHLOROPHENOL	mg/kg	28	0	0%	0.050	4.0	--	--	0.19	0.36	0.27	0.31	--	--
SVOC	2-METHYLNAPHTHALENE	mg/kg	29	1	3%	0.050	4.0	0.026	0.026	0.19	0.36	0.27	0.30	0.026	Max Detect
SVOC	2-METHYLPHENOL (o-CRESOL)	mg/kg	28	0	0%	0.090	4.0	--	--	0.21	0.36	0.27	0.33	--	--
SVOC	2-NITROANILINE	mg/kg	28	0	0%	0.040	24	--	--	1.0	2.2	6.6	1.7	--	--
SVOC	2-NITROPHENOL	mg/kg	28	0	0%	0.050	4.0	--	--	0.19	0.36	0.27	0.31	--	--
SVOC	3&4-METHYLPHENOL	mg/kg	28	0	0%	0.050	4.0	--	--	0.19	0.36	0.27	0.31	--	--
SVOC	3,3'-DICHLOROBENZIDINE	mg/kg	28	0	0%	0.040	24	--	--	1.0	2.2	6.6	1.7	--	--
SVOC	3-NITROANILINE	mg/kg	28	0	0%	0.040	24	--	--	1.0	2.2	6.6	1.7	--	--
SVOC	4,6-DINITRO-2-METHYLPHENOL	mg/kg	28	0	0%	0.070	24	--	--	1.0	2.2	3.6	1.8	--	--
SVOC	4-BROMOPHENYL PHENYL ETHER	mg/kg	28	0	0%	0.060	4.0	--	--	0.20	0.36	0.27	0.31	--	--
SVOC	4-CHLORO-3-METHYLPHENOL	mg/kg	28	0	0%	0.040	4.0	--	--	0.18	0.37	0.29	0.30	--	--
SVOC	4-CHLOROANILINE	mg/kg	28	0	0%	0.040	4.0	--	--	0.18	0.37	0.29	0.30	--	--
SVOC	4-CHLOROPHENYL PHENYL ETHER	mg/kg	28	0	0%	0.050	4.0	--	--	0.19	0.36	0.27	0.31	--	--
SVOC	4-NITROANILINE	mg/kg	28	0	0%	0.070	24	--	--	1.0	2.2	3.6	1.8	--	--
SVOC	4-NITROPHENOL	mg/kg	28	0	0%	0.080	24	--	--	1.1	2.2	3.4	1.8	--	--
SVOC	ACENAPHTHENE	mg/kg	29	1	3%	0.050	4.0	0.023	0.023	0.19	0.36	0.27	0.30	0.023	Max Detect
SVOC	ACENAPHTHYLENE	mg/kg	29	1	3%	0.050	4.0	0.012	0.012	0.18	0.36	0.28	0.30	0.012	Max Detect
SVOC	ANILINE (PHENYLAMINE, AMINOBENZENE)	mg/kg	28	0	0%	0.040	12	--	--	0.53	1.1	1.7	0.89	--	--
SVOC	ANTHRACENE	mg/kg	29	3	10%	0.040	4.0	0.029	1.2	0.23	0.40	0.38	0.35	0.38	Log Normal
SVOC	BENZO(a)ANTHRACENE	mg/kg	29	11	38%	0.040	4.0	0.10	1.5	0.31	0.45	0.52	0.46	0.52	Log Normal
SVOC	BENZO(a)PYRENE	mg/kg	29	11	38%	0.040	4.0	0.084	1.2	0.26	0.41	0.40	0.39	0.40	Log Normal
SVOC	BENZO(b)FLUORANTHENE	mg/kg	29	14	48%	0.040	4.0	0.10	2.0	0.39	0.53	0.65	0.56	0.65	Log Normal
SVOC	BENZO(g,h,i)PERYLENE	mg/kg	29	4	14%	0.050	4.0	0.049	0.50	0.21	0.36	0.32	0.32	0.32	Log Normal

TABLE 2-5
Summary Statistics for Surface Soil Samples from Building 35-752 (0 to 1 foot bgs
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Analyte Class	Analyte	Units	Number of Samples	Number of Detects	Frequency of Detection	Minimum Nondetect	Maximum Nondetect	Minimum Detect	Maximum Detect	Mean	Standard Deviation	95 UCL Lognormal Concentration	95 UCL Normal Concentration	Exposure Point Concentration	EPC Basis
SVOC	BENZO(k)FLUORANTHENE	mg/kg	29	14	48%	0.040	4.0	0.10	1.3	0.34	0.44	0.54	0.48	0.54	Log Normal
SVOC	BENZOIC ACID	mg/kg	28	0	0%	0.10	24	--	--	1.1	2.2	2.8	1.8	--	--
SVOC	BENZYL ALCOHOL	mg/kg	28	0	0%	0.040	4.0	--	--	0.18	0.37	0.29	0.30	--	--
SVOC	BENZYL BUTYL PHTHALATE	mg/kg	28	0	0%	0.040	4.0	--	--	0.18	0.37	0.29	0.30	--	--
SVOC	bis(2-CHLOROETHOXY) METHANE	mg/kg	28	0	0%	0.050	4.0	--	--	0.19	0.36	0.27	0.31	--	--
SVOC	bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	mg/kg	28	0	0%	0.050	4.0	--	--	0.19	0.36	0.27	0.31	--	--
SVOC	bis(2-CHLOROISOPROPYL) ETHER	mg/kg	28	0	0%	0.050	4.0	--	--	0.19	0.36	0.27	0.31	--	--
SVOC	bis(2-ETHYLHEXYL) PHTHALATE	mg/kg	28	11	39%	0.050	4.0	0.10	7.0	0.56	1.4	0.68	0.99	0.68	Log Normal
SVOC	CHRYSENE	mg/kg	29	15	52%	0.040	4.0	0.20	2.4	0.50	0.61	0.92	0.69	0.92	Log Normal
SVOC	DALAPON	mg/kg	8	0	0%	1.0	1.0	--	--	0.50	0	0.50	0.50	--	--
SVOC	DIBENZ(a,h)ANTHRACENE	mg/kg	29	1	3%	0.040	4.0	0.016	0.016	0.18	0.36	0.28	0.29	0.016	Max Detect
SVOC	DIBENZOFURAN	mg/kg	29	1	3%	0.050	4.0	0.027	0.027	0.19	0.36	0.27	0.30	0.027	Max Detect
SVOC	DICAMBA	mg/kg	8	0	0%	0.10	0.10	--	--	0.050	9.96E-10	0.050	0.050	--	--
SVOC	DICHLOROPROP	mg/kg	8	0	0%	0.10	0.10	--	--	0.050	9.96E-10	0.050	0.050	--	--
SVOC	DIETHYL PHTHALATE	mg/kg	28	0	0%	0.050	4.0	--	--	0.19	0.36	0.27	0.31	--	--
SVOC	DIMETHYL PHTHALATE	mg/kg	28	0	0%	0.050	4.0	--	--	0.19	0.36	0.27	0.31	--	--
SVOC	DI-n-BUTYL PHTHALATE	mg/kg	28	0	0%	0.050	4.0	--	--	0.19	0.36	0.27	0.31	--	--
SVOC	DI-n-OCTYLPHTHALATE	mg/kg	28	0	0%	0.040	4.0	--	--	0.18	0.37	0.29	0.30	--	--
SVOC	DINOSEB	mg/kg	8	0	0%	0.50	0.50	--	--	0.25	0	0.25	0.25	--	--
SVOC	FLUORANTHENE	mg/kg	29	16	55%	0.040	4.0	0.30	5.7	1.0	1.4	2.7	1.5	2.7	Log Normal
SVOC	FLUORENE	mg/kg	29	2	7%	0.040	4.0	0.037	0.10	0.18	0.36	0.27	0.29	0.10	Max Detect
SVOC	HEXACHLOROBENZENE	mg/kg	28	0	0%	0.060	4.0	--	--	0.20	0.36	0.27	0.31	--	--
SVOC	HEXACHLOROCYCLOPENTADIENE	mg/kg	28	0	0%	0.040	4.0	--	--	0.18	0.37	0.29	0.30	--	--
SVOC	HEXACHLOROETHANE	mg/kg	28	0	0%	0.050	4.0	--	--	0.19	0.36	0.27	0.31	--	--
SVOC	INDENO(1,2,3-c,d)PYRENE	mg/kg	29	5	17%	0.040	4.0	0.056	0.50	0.21	0.36	0.34	0.32	0.34	Log Normal
SVOC	ISOPHORONE	mg/kg	28	0	0%	0.050	4.0	--	--	0.19	0.36	0.27	0.31	--	--
SVOC	MCPA	mg/kg	8	0	0%	20	20	--	--	10	0	10.0	10	--	--
SVOC	MCPP	mg/kg	8	0	0%	20	20	--	--	10	0	10.0	10	--	--
SVOC	NITROBENZENE	mg/kg	28	0	0%	0.060	4.0	--	--	0.20	0.36	0.27	0.31	--	--
SVOC	N-NITROSODIMETHYLAMINE	mg/kg	28	0	0%	0.040	24	--	--	1.0	2.2	6.6	1.7	--	--
SVOC	N-NITROSODI-n-PROPYLAMINE	mg/kg	28	0	0%	0.050	4.0	--	--	0.19	0.36	0.27	0.31	--	--
SVOC	N-NITROSODIPHENYLAMINE	mg/kg	28	0	0%	0.040	4.0	--	--	0.18	0.37	0.29	0.30	--	--
SVOC	PENTACHLOROPHENOL	mg/kg	28	0	0%	0.020	24	--	--	1.0	2.2	15	1.7	--	--
SVOC	PHENANTHRENE	mg/kg	29	15	52%	0.040	4.0	0.10	3.5	0.57	0.81	1.1	0.83	1.1	Log Normal
SVOC	PHENOL	mg/kg	28	0	0%	0.050	4.0	--	--	0.19	0.36	0.27	0.31	--	--
SVOC	PYRENE	mg/kg	29	16	55%	0.040	4.0	0.30	5.4	0.79	1.2	1.7	1.2	1.7	Log Normal
SVOC	SILVEX (2,4,5-TP)	mg/kg	8	0	0%	0.050	0.050	--	--	0.025	4.98E-10	0.025	0.025	--	--
TPH	DIESEL RANGE ORGANICS	mg/kg	25	24	96%	10	10	14	2,300	288	537	766	472	766	Log Normal
TPH	GASOLINE RANGE ORGANICS	mg/kg	21	1	5%	4.0	8.0	0.35	0.35	2.9	1.0	3.8	3.3	0.35	Max Detect
TPH	TOTAL PETROLEUM HYDROCARBONS	mg/kg	16	15	94%	10	10	28	740	215	196	832	301	740	Max Detect
VOC	1,1,1,2-TETRACHLOROETHANE	mg/kg	28	0	0%	0.0020	0.010	--	--	0.0023	9.85E-04	0.0027	0.0026	--	--
VOC	1,1,1-TRICHLOROETHANE	mg/kg	28	2	7%	0.0020	0.012	0.010	0.014	0.0031	0.0028	0.0039	0.0040	0.0039	Log Normal
VOC	1,1,2,2-TETRACHLOROETHANE	mg/kg	28	0	0%	0.0020	0.010	--	--	0.0023	9.85E-04	0.0027	0.0026	--	--
VOC	1,1,2-TRICHLOROETHANE	mg/kg	28	0	0%	0.0020	0.010	--	--	0.0023	9.85E-04	0.0027	0.0026	--	--
VOC	1,1-DICHLOROETHANE	mg/kg	28	0	0%	0.0010	0.010	--	--	0.0019	0.0012	0.0028	0.0023	--	--
VOC	1,1-DICHLOROETHENE	mg/kg	28	0	0%	9.00E-04	0.010	--	--	0.0019	0.0012	0.0028	0.0023	--	--
VOC	1,1-DICHLOROPROPENE	mg/kg	28	0	0%	9.00E-04	0.010	--	--	0.0019	0.0012	0.0028	0.0023	--	--
VOC	1,2,3-TRICHLOROBENZENE	mg/kg	28	0	0%	6.00E-04	0.040	--	--	0.0067	0.0059	0.028	0.0086	--	--
VOC	1,2,3-TRICHLOROPROPANE	mg/kg	28	0	0%	0.0020	0.010	--	--	0.0023	9.85E-04	0.0027	0.0026	--	--
VOC	1,2,4-TRICHLOROBENZENE	mg/kg	28	0	0%	6.00E-04	0.040	--	--	0.0067	0.0059	0.028	0.0086	--	--
VOC	1,2,4-TRIMETHYLBENZENE	mg/kg	28	1	4%	7.00E-04	0.040	8.00E-04	8.00E-04	0.0068	0.0059	0.023	0.0086	8.00E-04	Max Detect
VOC	1,2-DIBROMO-3-CHLOROPROPANE	mg/kg	28	0	0%	0.0020	0.040	--	--	0.0071	0.0055	0.014	0.0089	--	--
VOC	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	mg/kg	28	0	0%	0.0020	0.040	--	--	0.0071	0.0055	0.014	0.0089	--	--
VOC	1,2-DICHLOROBENZENE	mg/kg	28	0	0%	8.00E-04	0.010	--	--	0.0019	0.0012	0.0029	0.0023	--	--
VOC	1,2-DICHLOROETHANE	mg/kg	28	0	0%	0.0020	0.010	--	--	0.0023	9.85E-04	0.0027	0.0026	--	--
VOC	1,2-DICHLOROPROPANE	mg/kg	28	0	0%	0.0020	0.010	--	--	0.0023	9.85E-04	0.0027	0.0026	--	--
VOC	1,3,5-TRIMETHYLBENZENE (MESITYLENE)	mg/kg	28	1	4%	8.00E-04	0.040	0.0040	0.0040	0.0069	0.0058	0.022	0.0087	0.0040	Max Detect

TABLE 2-5
Summary Statistics for Surface Soil Samples from Building 35-752 (0 to 1 foot bgs
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Analyte Class	Analyte	Units	Number of Samples	Number of Detects	Frequency of Detection	Minimum Nondetect	Maximum Nondetect	Minimum Detect	Maximum Detect	Mean	Standard Deviation	95 UCL Lognormal Concentration	95 UCL Normal Concentration	Exposure Point Concentration	EPC Basis
VOC	1,3-DICHLOROBENZENE	mg/kg	28	0	0%	8.00E-04	0.010	--	--	0.0019	0.0012	0.0029	0.0023	--	--
VOC	1,3-DICHLOROPROPANE	mg/kg	28	0	0%	0.0020	0.010	--	--	0.0023	9.85E-04	0.0027	0.0026	--	--
VOC	1,4-DICHLOROBENZENE	mg/kg	28	2	7%	6.00E-04	0.010	0.0060	0.015	0.0024	0.0028	0.0041	0.0033	0.0041	Log Normal
VOC	2,2-DICHLOROPROPANE	mg/kg	28	0	0%	5.00E-04	0.010	--	--	0.0018	0.0014	0.0034	0.0022	--	--
VOC	2-CHLOROTOLUENE	mg/kg	28	2	7%	0.0010	0.040	0.0070	0.010	0.0073	0.0057	0.022	0.0091	0.0091	Normal
VOC	2-HEXANONE	mg/kg	28	0	0%	0.0040	0.040	--	--	0.0079	0.0049	0.011	0.0095	--	--
VOC	4-CHLOROTOLUENE	mg/kg	28	0	0%	9.00E-04	0.040	--	--	0.0068	0.0059	0.022	0.0086	--	--
VOC	ACETONE	mg/kg	28	17	61%	0.030	0.090	0.051	0.42	0.12	0.11	0.21	0.15	0.21	Log Normal
VOC	BENZENE	mg/kg	28	0	0%	0.0020	0.010	--	--	0.0023	9.85E-04	0.0027	0.0026	--	--
VOC	BROMOBENZENE	mg/kg	28	0	0%	0.0020	0.010	--	--	0.0023	9.85E-04	0.0027	0.0026	--	--
VOC	BROMOCHLOROMETHANE	mg/kg	28	0	0%	0.0020	0.010	--	--	0.0023	9.85E-04	0.0027	0.0026	--	--
VOC	BROMODICHLOROMETHANE	mg/kg	28	0	0%	0.0020	0.010	--	--	0.0023	9.85E-04	0.0027	0.0026	--	--
VOC	BROMOFORM	mg/kg	28	0	0%	0.0020	0.010	--	--	0.0023	9.85E-04	0.0027	0.0026	--	--
VOC	BROMOMETHANE	mg/kg	28	0	0%	0.0020	0.010	--	--	0.0023	9.85E-04	0.0027	0.0026	--	--
VOC	CARBON DISULFIDE	mg/kg	28	0	0%	0.0020	0.010	--	--	0.0023	9.85E-04	0.0027	0.0026	--	--
VOC	CARBON TETRACHLORIDE	mg/kg	28	0	0%	0.0010	0.010	--	--	0.0019	0.0012	0.0028	0.0023	--	--
VOC	CHLOROBENZENE	mg/kg	28	0	0%	0.0020	0.010	--	--	0.0023	9.85E-04	0.0027	0.0026	--	--
VOC	CHLOROETHANE	mg/kg	28	0	0%	7.00E-04	0.010	--	--	0.0019	0.0013	0.0031	0.0023	--	--
VOC	CHLOROFORM	mg/kg	28	0	0%	0.0020	0.010	--	--	0.0023	9.85E-04	0.0027	0.0026	--	--
VOC	CHLOROMETHANE	mg/kg	28	0	0%	9.00E-04	0.010	--	--	0.0019	0.0012	0.0028	0.0023	--	--
VOC	cis-1,2-DICHLOROETHYLENE	mg/kg	28	0	0%	8.00E-04	0.010	--	--	0.0019	0.0012	0.0029	0.0023	--	--
VOC	cis-1,3-DICHLOROPROPENE	mg/kg	28	0	0%	0.0010	0.010	--	--	0.0019	0.0012	0.0028	0.0023	--	--
VOC	CYMENE	mg/kg	28	0	0%	8.00E-04	0.040	--	--	0.0067	0.0059	0.023	0.0086	--	--
VOC	DIBROMOCHLOROMETHANE	mg/kg	28	0	0%	0.0020	0.010	--	--	0.0023	9.85E-04	0.0027	0.0026	--	--
VOC	DIBROMOMETHANE	mg/kg	28	0	0%	0.0020	0.010	--	--	0.0023	9.85E-04	0.0027	0.0026	--	--
VOC	DICHLORODIFLUOROMETHANE	mg/kg	28	0	0%	9.00E-04	0.010	--	--	0.0019	0.0012	0.0028	0.0023	--	--
VOC	ETHYLBENZENE	mg/kg	28	0	0%	0.0020	0.010	--	--	0.0023	9.85E-04	0.0027	0.0026	--	--
VOC	HEXACHLOROBUTADIENE	mg/kg	28	0	0%	5.00E-04	0.040	--	--	0.0066	0.0060	0.037	0.0085	--	--
VOC	METHYL ETHYL KETONE (2-BUTANONE)	mg/kg	28	13	46%	0.0030	0.020	0.0040	0.075	0.020	0.019	0.036	0.027	0.036	Log Normal
VOC	METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	mg/kg	28	0	0%	0.0040	0.040	--	--	0.0079	0.0049	0.011	0.0095	--	--
VOC	METHYLENE CHLORIDE	mg/kg	28	0	0%	0.0030	0.020	--	--	0.0042	0.0022	0.0053	0.0049	--	--
VOC	NAPHTHALENE	mg/kg	29	3	10%	7.00E-04	0.040	7.00E-04	0.031	0.0076	0.0072	0.027	0.0099	0.027	Log Normal
VOC	n-BUTYLBENZENE	mg/kg	28	0	0%	6.00E-04	0.040	--	--	0.0067	0.0059	0.028	0.0086	--	--
VOC	n-PROPYLBENZENE	mg/kg	28	2	7%	7.00E-04	0.040	0.030	0.18	0.014	0.033	0.056	0.025	0.056	Log Normal
VOC	P-CYMENE (p-ISOPROPYLTOLUENE)	mg/kg	28	1	4%	6.00E-04	0.040	0.13	0.13	0.011	0.024	0.043	0.019	0.043	Log Normal
VOC	SEC-BUTYLBENZENE	mg/kg	28	0	0%	7.00E-04	0.040	--	--	0.0067	0.0059	0.025	0.0086	--	--
VOC	STYRENE	mg/kg	28	0	0%	0.0010	0.010	--	--	0.0019	0.0012	0.0028	0.0023	--	--
VOC	t-BUTYLBENZENE	mg/kg	28	0	0%	0.0020	0.040	--	--	0.0071	0.0055	0.014	0.0089	--	--
VOC	TETRACHLOROETHYLENE(PCE)	mg/kg	28	0	0%	9.00E-04	0.010	--	--	0.0019	0.0012	0.0028	0.0023	--	--
VOC	TOLUENE	mg/kg	28	2	7%	0.0020	0.010	0.0060	0.0060	0.0025	0.0014	0.0031	0.0030	0.0031	Log Normal
VOC	trans-1,2-DICHLOROETHENE	mg/kg	28	0	0%	0.0040	0.020	--	--	0.0031	0.0016	0.0035	0.0036	--	--
VOC	trans-1,3-DICHLOROPROPENE	mg/kg	28	0	0%	0.0020	0.010	--	--	0.0023	9.85E-04	0.0027	0.0026	--	--
VOC	TRICHLOROETHYLENE (TCE)	mg/kg	28	0	0%	0.0010	0.010	--	--	0.0019	0.0012	0.0028	0.0023	--	--
VOC	TRICHLOROFLUOROMETHANE	mg/kg	28	0	0%	7.00E-04	0.010	--	--	0.0019	0.0013	0.0031	0.0023	--	--
VOC	VINYL CHLORIDE	mg/kg	28	0	0%	7.00E-04	0.010	--	--	0.0019	0.0013	0.0031	0.0023	--	--
VOC	XYLENES, TOTAL	mg/kg	28	2	7%	0.0030	0.010	0.0060	0.0060	0.0029	0.0013	0.0033	0.0033	0.0033	Log Normal

Notes
95 UCL = 95% upper confidence limit of the mean
PEST/PCB - Pesticides/Polychlorinated Biphenyls
SVOC - Semivolatile Organic Compounds
TPH - Total Petroleum Hydrocarbons
VOC - Volatile Organic Compounds

TABLE 2-6
Summary Statistics for Subsurface Soil Samples from the AVMA (0 to ~6 feet bgs)
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Analyte Class	Analyte	Units	Number of Samples	Number of Detects	Frequency of Detection	Minimum Nondetect	Maximum Nondetect	Minimum Detect	Maximum Detect[a]	Mean	Standard Deviation	95 UCL Lognormal Concentration	95 UCL Normal Concentration	Exposure Point Concentration	EPC Basis
METAL	ALUMINUM	mg/kg	17	17	100%	--	--	16,000	26,100	20,674	2,681	21,855	21,809	21,855	Log Normal
METAL	ANTIMONY	mg/kg	17	17	100%	--	--	0.090	0.59	0.34	0.14	0.45	0.40	0.40	Normal
METAL	ARSENIC	mg/kg	19	16	84%	1.0	1.2	1.0	11	3.6	2.8	6.7	4.7	6.7	Log Normal
METAL	BARIUM	mg/kg	19	19	100%	--	--	37	120	78	29	93	89	93	Log Normal
METAL	BERYLLIUM	mg/kg	17	17	100%	--	--	0.33	0.54	0.43	0.058	0.46	0.46	0.46	Log Normal
METAL	CADMIUM	mg/kg	19	18	95%	0.056	0.056	0.75	1.4	0.91	0.25	1.7	1.0	1.0	Normal
METAL	CALCIUM	mg/kg	17	17	100%	--	--	4,800	12,050	7,265	1,964	8,215	8,097	8,215	Log Normal
METAL	CHROMIUM, TOTAL	mg/kg	19	19	100%	--	--	26	51	37	5.9	40	40	40	Normal
METAL	COBALT	mg/kg	17	17	100%	--	--	11	15	12	1.2	13	13	13	Log Normal
METAL	COPPER	mg/kg	17	17	100%	--	--	23	33	27	3.3	29	29	29	Log Normal
METAL	IRON	mg/kg	17	17	100%	--	--	30,000	41,000	35,185	2,828	36,394	36,383	36,394	Log Normal
METAL	LEAD	mg/kg	19	19	100%	--	--	3.2	43	13	12	19	17	19	Log Normal
METAL	MAGNESIUM	mg/kg	17	17	100%	--	--	6,800	13,000	9,854	1,929	10,776	10,670	10,776	Log Normal
METAL	MANGANESE	mg/kg	17	17	100%	--	--	510	850	609	87	646	646	646	Log Normal
METAL	MERCURY	mg/kg	19	19	100%	--	--	0.037	0.095	0.058	0.017	0.066	0.065	0.066	Log Normal
METAL	NICKEL	mg/kg	17	17	100%	--	--	31	62	38	7.1	41	41	41	Log Normal
METAL	POTASSIUM	mg/kg	17	17	100%	--	--	700	1,180	896	132	954	952	954	Log Normal
METAL	SELENIUM	mg/kg	19	15	79%	1.3	2.5	2.6	11	5.0	2.8	8.7	6.1	6.1	Normal
METAL	SILVER	mg/kg	19	--	--	0.28	0.54	--	--	0.20	0.035	0.22	0.21	--	--
METAL	SODIUM	mg/kg	17	17	100%	--	--	82	310	147	60	173	172	173	Log Normal
METAL	THALLIUM	mg/kg	17	1	6%	0.049	0.31	0.27	0.27	0.081	0.072	0.14	0.11	0.14	Log Normal
METAL	VANADIUM	mg/kg	17	17	100%	--	--	57	87	72	7.0	75	75	75	Normal
METAL	ZINC	mg/kg	17	17	100%	--	--	57	140	69	20	75	77	75	Log Normal
PEST/PCB	ALDRIN	mg/kg	19	--	--	1.00E-04	0.0084	--	--	3.98E-04	9.23E-04	4.78E-04	7.65E-04	--	--
PEST/PCB	ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	mg/kg	19	4	21%	1.40E-04	0.0061	5.40E-04	0.0011	4.44E-04	7.04E-04	7.42E-04	7.24E-04	7.42E-04	Log Normal
PEST/PCB	ALPHA ENDOSULFAN	mg/kg	19	--	--	1.50E-04	0.0083	--	--	3.57E-04	9.19E-04	3.86E-04	7.23E-04	--	--
PEST/PCB	ALPHA-CHLORDANE	mg/kg	17	4	24%	2.94E-04	0.0077	4.00E-04	0.0012	5.37E-04	9.17E-04	8.26E-04	9.25E-04	8.26E-04	Log Normal
PEST/PCB	BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	mg/kg	19	6	32%	2.30E-04	0.0082	5.67E-04	0.0033	8.35E-04	0.0012	0.0016	0.0013	0.0016	Log Normal
PEST/PCB	BETA ENDOSULFAN	mg/kg	19	--	--	3.00E-04	0.0075	--	--	3.75E-04	8.21E-04	4.01E-04	7.02E-04	--	--
PEST/PCB	CHLORDANE	mg/kg	9	--	--	0.0013	0.027	--	--	0.0028	0.0043	0.011	0.0055	--	--
PEST/PCB	DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	mg/kg	19	1	5%	1.40E-04	0.0075	8.60E-04	8.60E-04	4.21E-04	8.20E-04	5.44E-04	7.47E-04	5.44E-04	Log Normal
PEST/PCB	DIELDRIN	mg/kg	19	3	16%	2.50E-04	0.0064	3.60E-04	0.0021	4.50E-04	8.05E-04	6.30E-04	7.70E-04	6.30E-04	Log Normal
PEST/PCB	ENDOSULFAN SULFATE	mg/kg	19	5	26%	1.96E-04	0.0071	2.32E-04	6.50E-04	4.11E-04	7.77E-04	5.70E-04	7.21E-04	5.70E-04	Log Normal
PEST/PCB	ENDRIN	mg/kg	19	4	21%	3.20E-04	0.0070	0.0012	0.0025	7.69E-04	0.0010	0.0014	0.0012	0.0014	Log Normal
PEST/PCB	ENDRIN ALDEHYDE	mg/kg	19	4	21%	3.80E-04	0.0079	0.0013	0.0028	8.38E-04	0.0010	0.0015	0.0012	0.0015	Log Normal
PEST/PCB	ENDRIN KETONE	mg/kg	19	4	21%	2.28E-04	0.0055	3.20E-04	0.0019	4.51E-04	7.33E-04	7.11E-04	7.43E-04	7.11E-04	Log Normal
PEST/PCB	GAMMA BHC (LINDANE)	mg/kg	19	--	--	1.90E-04	0.0074	--	--	4.62E-04	7.96E-04	6.01E-04	7.79E-04	--	--
PEST/PCB	GAMMA-CHLORDANE	mg/kg	17	--	--	3.82E-04	0.0079	--	--	4.49E-04	9.04E-04	5.14E-04	8.32E-04	--	--
PEST/PCB	HEPTACHLOR	mg/kg	19	1	5%	1.10E-04	0.0067	0.0017	0.0017	5.97E-04	7.64E-04	0.0012	9.01E-04	0.0012	Log Normal
PEST/PCB	HEPTACHLOR EPOXIDE	mg/kg	19	1	5%	1.80E-04	0.0071	0.0025	0.0025	5.38E-04	9.00E-04	7.70E-04	8.96E-04	7.70E-04	Log Normal
PEST/PCB	METHOXYCHLOR	mg/kg	19	4	21%	8.60E-04	0.027	0.0025	0.0063	0.0020	0.0031	0.0032	0.0033	0.0032	Log Normal
PEST/PCB	p,p'-DDD	mg/kg	19	9	47%	1.83E-04	0.0038	7.64E-04	0.038	0.0057	0.0097	0.12	0.0096	0.038	Max Detect
PEST/PCB	p,p'-DDE	mg/kg	19	11	58%	2.16E-04	0.0045	5.52E-04	0.039	0.0037	0.0088	0.022	0.0072	0.022	Log Normal
PEST/PCB	p,p'-DDT	mg/kg	19	12	63%	2.44E-04	0.0051	0.0046	0.24	0.027	0.055	2.6	0.049	0.24	Max Detect
PEST/PCB	PCB-1016 (AROCLOR 1016)	mg/kg	19	--	--	0.0010	0.021	--	--	0.0019	0.0023	0.0027	0.0028	--	--
PEST/PCB	PCB-1221 (AROCLOR 1221)	mg/kg	19	--	--	0.0027	0.092	--	--	0.0045	0.010	0.0053	0.0085	--	--
PEST/PCB	PCB-1232 (AROCLOR 1232)	mg/kg	19	--	--	0.0027	0.073	--	--	0.0036	0.0080	0.0041	0.0068	--	--
PEST/PCB	PCB-1242 (AROCLOR 1242)	mg/kg	19	--	--	0.0019	0.039	--	--	0.0023	0.0042	0.0026	0.0039	--	--
PEST/PCB	PCB-1248 (AROCLOR 1248)	mg/kg	19	--	--	0.0019	0.039	--	--	0.0022	0.0042	0.0025	0.0039	--	--
PEST/PCB	PCB-1254 (AROCLOR 1254)	mg/kg	19	--	--	0.0015	0.030	--	--	0.0020	0.0032	0.0024	0.0033	--	--
PEST/PCB	PCB-1260 (AROCLOR 1260)	mg/kg	19	--	--	0.0015	0.030	--	--	0.0019	0.0032	0.0023	0.0032	--	--
PEST/PCB	TOXAPHENE	mg/kg	19	--	--	0.0051	0.12	--	--	0.0063	0.013	0.0070	0.012	--	--
SVOC	2,4,5-TRICHLOROPHENOL	mg/kg	20	--	--	0.0048	0.17	--	--	0.018	0.017	0.028	0.025	--	--

TABLE 2-6
Summary Statistics for Subsurface Soil Samples from the AVMA (0 to ~6 feet bgs)
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Analyte Class	Analyte	Units	Number of Samples	Number of Detects	Frequency of Detection	Minimum Nondetect	Maximum Nondetect	Minimum Detect	Maximum Detect[a]	Mean	Standard Deviation	95 UCL Lognormal Concentration	95 UCL Normal Concentration	Exposure Point Concentration	EPC Basis
SVOC	2,4,6-TRICHLOROPHENOL	mg/kg	20	--	--	0.0047	0.17	--	--	0.018	0.017	0.027	0.025	--	--
SVOC	2,4-DICHLOROPHENOL	mg/kg	20	--	--	0.0026	0.20	--	--	0.021	0.020	0.041	0.029	--	--
SVOC	2,4-DIMETHYLPHENOL	mg/kg	20	1	5%	0.0093	0.22	0.011	0.011	0.024	0.021	0.031	0.032	0.011	Max Detect
SVOC	2,4-DINITROPHENOL	mg/kg	20	--	--	0.0084	1.3	--	--	0.13	0.13	0.41	0.19	--	--
SVOC	2,4-DINITROTOLUENE	mg/kg	20	--	--	0.0062	0.21	--	--	0.022	0.021	0.033	0.030	--	--
SVOC	2,6-DINITROTOLUENE	mg/kg	20	--	--	0.0044	0.15	--	--	0.016	0.015	0.024	0.022	--	--
SVOC	2-CHLORONAPHTHALENE	mg/kg	20	--	--	0.0029	0.22	--	--	0.023	0.022	0.044	0.031	--	--
SVOC	2-CHLOROPHENOL	mg/kg	20	--	--	0.0080	0.33	--	--	0.035	0.033	0.057	0.048	--	--
SVOC	2-METHYLNAPHTHALENE	mg/kg	20	7	35%	0.0053	0.11	0.037	1.5	0.20	0.38	0.69	0.35	0.69	Log Normal
SVOC	2-METHYLPHENOL (o-CRESOL)	mg/kg	20	1	5%	0.0053	0.28	0.011	0.011	0.030	0.028	0.044	0.040	0.011	Max Detect
SVOC	2-NITROANILINE	mg/kg	20	--	--	0.011	0.18	--	--	0.019	0.018	0.024	0.026	--	--
SVOC	2-NITROPHENOL	mg/kg	20	--	--	0.0063	0.23	--	--	0.025	0.023	0.038	0.034	--	--
SVOC	3&4-METHYLPHENOL	mg/kg	18	--	--	0.026	0.47	--	--	0.054	0.047	0.069	0.074	--	--
SVOC	3,3'-DICHLOROBENZIDINE	mg/kg	20	--	--	0.0038	0.33	--	--	0.035	0.034	0.074	0.048	--	--
SVOC	3-NITROANILINE	mg/kg	20	--	--	0.0039	0.21	--	--	0.022	0.021	0.038	0.030	--	--
SVOC	4,6-DINITRO-2-METHYLPHENOL	mg/kg	20	--	--	0.0049	0.12	--	--	0.013	0.012	0.018	0.018	--	--
SVOC	4-BROMOPHENYL PHENYL ETHER	mg/kg	20	--	--	0.0050	0.21	--	--	0.022	0.021	0.035	0.030	--	--
SVOC	4-CHLORO-3-METHYLPHENOL	mg/kg	20	1	5%	0.0097	0.21	0.039	0.039	0.024	0.021	0.031	0.032	0.031	Log Normal
SVOC	4-CHLOROANILINE	mg/kg	20	--	--	0.0055	0.51	--	--	0.053	0.052	0.12	0.074	--	--
SVOC	4-CHLOROPHENYL PHENYL ETHER	mg/kg	20	--	--	0.0057	0.18	--	--	0.020	0.018	0.029	0.026	--	--
SVOC	4-NITROANILINE	mg/kg	20	--	--	0.0033	0.22	--	--	0.023	0.022	0.043	0.032	--	--
SVOC	4-NITROPHENOL	mg/kg	20	--	--	0.0087	0.13	--	--	0.014	0.013	0.018	0.019	--	--
SVOC	ACENAPHTHENE	mg/kg	20	4	20%	2.07E-04	0.23	0.031	3.5	0.26	0.81	1.3	0.57	1.3	Log Normal
SVOC	ACENAPHTHYLENE	mg/kg	20	1	5%	6.22E-04	0.22	0.038	0.038	0.024	0.022	0.074	0.033	0.038	Max Detect
SVOC	ANTHRACENE	mg/kg	20	7	35%	2.65E-04	0.21	0.042	5.4	0.36	1.2	1.9	0.83	1.9	Log Normal
SVOC	BENZIDINE	mg/kg	3	--	--	0.27	1.6	--	--	0.36	0.38	5,787	1.0	--	--
SVOC	BENZO(a)ANTHRACENE	mg/kg	20	8	40%	5.36E-04	0.086	0.069	49	2.6	11	8.8	6.8	8.8	Log Normal
SVOC	BENZO(a)PYRENE	mg/kg	20	6	30%	9.22E-04	0.17	0.051	5.1	0.34	1.1	1.6	0.79	1.6	Log Normal
SVOC	BENZO(b)FLUORANTHENE	mg/kg	20	6	30%	3.49E-04	0.15	0.049	2.2	0.20	0.53	1.6	0.40	1.6	Log Normal
SVOC	BENZO(g,h,i)PERYLENE	mg/kg	20	5	25%	4.81E-04	0.23	0.047	3.5	0.23	0.78	1.5	0.53	1.5	Log Normal
SVOC	BENZO(k)FLUORANTHENE	mg/kg	20	3	15%	2.18E-04	0.20	0.085	2.2	0.16	0.49	0.93	0.35	0.93	Log Normal
SVOC	BENZOIC ACID	mg/kg	20	--	--	0.0039	2.6	--	--	0.26	0.27	2.5	0.37	--	--
SVOC	BENZYL ALCOHOL	mg/kg	20	--	--	0.011	0.28	--	--	0.030	0.028	0.042	0.041	--	--
SVOC	BENZYL BUTYL PHTHALATE	mg/kg	20	--	--	0.0052	0.17	--	--	0.019	0.017	0.028	0.025	--	--
SVOC	bis(2-CHLOROETHOXY) METHANE	mg/kg	20	--	--	0.0064	0.38	--	--	0.040	0.038	0.071	0.054	--	--
SVOC	bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	mg/kg	20	--	--	0.0074	0.39	--	--	0.041	0.039	0.072	0.056	--	--
SVOC	bis(2-CHLOROISOPROPYL) ETHER	mg/kg	20	--	--	0.0097	0.43	--	--	0.045	0.043	0.077	0.062	--	--
SVOC	bis(2-ETHYLHEXYL) PHTHALATE	mg/kg	20	9	45%	0.011	0.20	0.041	0.080	0.043	0.030	0.078	0.054	0.078	Log Normal
SVOC	CHRYSENE	mg/kg	20	8	40%	2.62E-04	0.086	0.085	24	1.4	5.3	13	3.4	13	Log Normal
SVOC	DIBENZ(a,h)ANTHRACENE	mg/kg	20	1	5%	3.41E-04	0.24	0.18	0.18	0.032	0.043	0.22	0.049	0.18	Max Detect
SVOC	DIBENZOFURAN	mg/kg	20	4	20%	0.028	0.21	0.017	1.3	0.13	0.32	0.18	0.25	0.18	Log Normal
SVOC	DIETHYL PHTHALATE	mg/kg	20	--	--	0.0075	0.21	--	--	0.023	0.021	0.032	0.031	--	--
SVOC	DIMETHYL PHTHALATE	mg/kg	20	--	--	0.011	0.21	--	--	0.023	0.021	0.030	0.031	--	--
SVOC	DI-n-BUTYL PHTHALATE	mg/kg	20	15	75%	0.044	0.10	0.063	0.77	0.27	0.24	0.72	0.36	0.72	Log Normal
SVOC	DI-n-OCTYLPHTHALATE	mg/kg	20	1	5%	0.0084	0.19	0.10	0.10	0.024	0.026	0.035	0.034	0.035	Log Normal
SVOC	DIPHENYLAMINE	mg/kg	3	--	--	0.046	0.27	--	--	0.061	0.064	854	0.17	--	--
SVOC	FLUORANTHENE	mg/kg	20	7	35%	6.15E-04	0.24	0.066	5.1	0.42	1.2	2.5	0.88	2.5	Log Normal
SVOC	FLUORENE	mg/kg	20	7	35%	2.53E-04	0.086	0.033	2.9	0.23	0.67	1.3	0.49	1.3	Log Normal
SVOC	HEXACHLOROBENZENE	mg/kg	20	--	--	0.0089	0.21	--	--	0.023	0.021	0.031	0.031	--	--
SVOC	HEXACHLOROCYCLOPENTADIENE	mg/kg	20	--	--	0.0054	0.073	--	--	0.0091	0.0082	0.012	0.012	--	--
SVOC	HEXACHLOROETHANE	mg/kg	20	--	--	0.011	0.35	--	--	0.037	0.035	0.055	0.050	--	--
SVOC	INDENO(1,2,3-c,d)PYRENE	mg/kg	20	4	20%	4.73E-04	0.19	0.043	4.1	0.25	0.91	0.98	0.61	0.98	Log Normal
SVOC	ISOPHORONE	mg/kg	20	--	--	0.0094	0.25	--	--	0.027	0.025	0.038	0.036	--	--

TABLE 2-6
Summary Statistics for Subsurface Soil Samples from the AVMA (0 to ~6 feet bgs)
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Analyte Class	Analyte	Units	Number of Samples	Number of Detects	Frequency of Detection	Minimum Nondetect	Maximum Nondetect	Minimum Detect	Maximum Detect[a]	Mean	Standard Deviation	95 UCL Lognormal Concentration	95 UCL Normal Concentration	Exposure Point Concentration	EPC Basis
SVOC	NITROBENZENE	mg/kg	20	--	--	0.0057	0.34	--	--	0.036	0.034	0.065	0.049	--	--
SVOC	N-NITROSODI-n-PROPYLAMINE	mg/kg	20	--	--	0.0085	0.31	--	--	0.033	0.031	0.050	0.045	--	--
SVOC	N-NITROSODIPHENYLAMINE	mg/kg	20	--	--	0.0026	0.50	--	--	0.053	0.050	0.16	0.072	--	--
SVOC	PENTACHLOROPHENOL	mg/kg	20	--	--	0.0047	0.15	--	--	0.016	0.015	0.023	0.022	--	--
SVOC	PHENANTHRENE	mg/kg	20	8	40%	2.96E-04	0.086	0.16	11	0.87	2.6	19	1.9	11	Max Detect
SVOC	PHENOL	mg/kg	20	1	5%	0.013	0.20	0.018	0.018	0.022	0.019	0.027	0.030	0.018	Max Detect
SVOC	PYRENE	mg/kg	20	8	40%	3.72E-04	0.081	0.075	5.1	0.51	1.3	8.7	1.0	5.1	Max Detect
TPH	DIESEL RANGE ORGANICS	mg/kg	20	19	95%	0.62	0.62	0.78	3,800	248	843	4,161	574	3,800	Max Detect
TPH	GASOLINE RANGE ORGANICS	mg/kg	20	10	50%	0.16	1.8	0.28	6.0	0.81	1.4	1.3	1.3	1.3	Log Normal
TPH	RESIDUAL RANGE ORGANICS	mg/kg	3	2	67%	11	11	490	1,450	648	735	2.67E+39	1,888	1,450	Max Detect
VOC	1,1,1,2-TETRACHLOROETHANE	mg/kg	19	--	--	2.30E-04	0.0074	--	--	0.0018	9.65E-04	0.0038	0.0022	--	--
VOC	1,1,1-TRICHLOROETHANE	mg/kg	19	--	--	2.30E-04	0.0074	--	--	0.0018	9.82E-04	0.0037	0.0022	--	--
VOC	1,1,2,2-TETRACHLOROETHANE	mg/kg	19	--	--	2.30E-04	0.0071	--	--	0.0018	9.26E-04	0.0037	0.0021	--	--
VOC	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	mg/kg	17	--	--	0.0019	0.012	--	--	0.0032	0.0014	0.0042	0.0038	--	--
VOC	1,1,2-TRICHLOROETHANE	mg/kg	19	--	--	2.30E-04	0.014	--	--	0.0034	0.0019	0.0098	0.0042	--	--
VOC	1,1-DICHLOROETHANE	mg/kg	19	--	--	2.30E-04	0.0087	--	--	0.0021	0.0012	0.0047	0.0026	--	--
VOC	1,1-DICHLOROETHENE	mg/kg	19	--	--	2.30E-04	0.011	--	--	0.0028	0.0015	0.0071	0.0033	--	--
VOC	1,1-DICHLOROPROPENE	mg/kg	19	--	--	2.30E-04	0.0061	--	--	0.0015	8.05E-04	0.0028	0.0018	--	--
VOC	1,2,3-TRICHLOROBENZENE	mg/kg	19	1	5%	2.30E-04	0.018	0.0078	0.0078	0.0021	0.0023	0.0044	0.0030	0.0044	Log Normal
VOC	1,2,3-TRICHLOROPROPANE	mg/kg	19	--	--	2.30E-04	0.016	--	--	0.0039	0.0022	0.012	0.0048	--	--
VOC	1,2,4-TRICHLOROBENZENE	mg/kg	20	--	--	2.30E-04	0.061	--	--	0.0025	0.0066	0.0037	0.0050	--	--
VOC	1,2,4-TRIMETHYLBENZENE	mg/kg	19	4	21%	2.30E-04	0.0048	0.014	0.085	0.011	0.025	0.049	0.021	0.049	Log Normal
VOC	1,2-DIBROMO-3-CHLOROPROPANE	mg/kg	19	--	--	2.30E-04	0.039	--	--	0.0093	0.0053	0.050	0.011	--	--
VOC	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	mg/kg	19	--	--	2.30E-04	0.0055	--	--	0.0014	7.50E-04	0.0027	0.0017	--	--
VOC	1,2-DICHLOROBENZENE	mg/kg	20	--	--	2.30E-04	0.069	--	--	0.0033	0.0074	0.0063	0.0062	--	--
VOC	1,2-DICHLOROETHANE	mg/kg	19	--	--	2.30E-04	0.012	--	--	0.0029	0.0016	0.0075	0.0035	--	--
VOC	1,2-DICHLOROPROPANE	mg/kg	19	--	--	2.30E-04	0.011	--	--	0.0027	0.0015	0.0069	0.0033	--	--
VOC	1,3,5-TRIMETHYLBENZENE (MESITYLENE)	mg/kg	19	3	16%	2.30E-04	0.0074	0.0079	0.018	0.0035	0.0046	0.0099	0.0054	0.0099	Log Normal
VOC	1,3-DICHLOROBENZENE	mg/kg	20	--	--	2.30E-04	0.065	--	--	0.0033	0.0069	0.0064	0.0060	--	--
VOC	1,3-DICHLOROPROPANE	mg/kg	19	--	--	2.30E-04	0.0042	--	--	0.0010	5.38E-04	0.0018	0.0013	--	--
VOC	1,4-DICHLOROBENZENE	mg/kg	19	--	--	2.30E-04	0.0090	--	--	0.0022	0.0012	0.0050	0.0027	--	--
VOC	2,2-DICHLOROPROPANE	mg/kg	19	--	--	2.30E-04	0.0090	--	--	0.0022	0.0012	0.0051	0.0027	--	--
VOC	2-CHLOROETHYL VINYL ETHER	mg/kg	16	--	--	0.0021	0.0077	--	--	0.0021	8.55E-04	0.0027	0.0025	--	--
VOC	2-CHLOROTOLUENE	mg/kg	19	--	--	2.30E-04	0.0035	--	--	9.18E-04	4.75E-04	0.0015	0.0011	--	--
VOC	2-HEXANONE	mg/kg	19	--	--	0.0011	0.0055	--	--	0.0014	6.23E-04	0.0018	0.0017	--	--
VOC	4-CHLOROTOLUENE	mg/kg	19	--	--	2.30E-04	0.0080	--	--	0.0019	0.0011	0.0042	0.0024	--	--
VOC	ACETONE	mg/kg	19	10	53%	0.011	0.090	0.028	0.26	0.052	0.063	0.12	0.077	0.12	Log Normal
VOC	ACRYLONITRILE	mg/kg	17	--	--	0.0029	0.011	--	--	0.0030	0.0012	0.0037	0.0035	--	--
VOC	BENZENE	mg/kg	19	3	16%	0.0016	0.0058	2.70E-04	0.024	0.0026	0.0052	0.0036	0.0047	0.0036	Log Normal
VOC	BROMOBENZENE	mg/kg	19	--	--	2.30E-04	0.011	--	--	0.0026	0.0015	0.0066	0.0032	--	--
VOC	BROMOCHLOROMETHANE	mg/kg	19	--	--	2.30E-04	0.011	--	--	0.0029	0.0016	0.0075	0.0035	--	--
VOC	BROMODICHLOROMETHANE	mg/kg	19	--	--	2.30E-04	0.0074	--	--	0.0018	9.71E-04	0.0038	0.0022	--	--
VOC	BROMOFORM	mg/kg	19	--	--	2.30E-04	0.010	--	--	0.0025	0.0013	0.0061	0.0030	--	--
VOC	BROMOMETHANE	mg/kg	19	--	--	2.30E-04	0.024	--	--	0.0060	0.0032	0.024	0.0073	--	--
VOC	CARBON DISULFIDE	mg/kg	19	--	--	2.30E-04	0.0045	--	--	0.0011	6.05E-04	0.0019	0.0013	--	--
VOC	CARBON TETRACHLORIDE	mg/kg	19	--	--	2.30E-04	0.0055	--	--	0.0014	7.07E-04	0.0025	0.0016	--	--
VOC	CHLOROBENZENE	mg/kg	19	--	--	2.30E-04	0.0035	--	--	9.20E-04	4.78E-04	0.0015	0.0011	--	--
VOC	CHLOROETHANE	mg/kg	19	--	--	2.30E-04	0.018	--	--	0.0032	0.0021	0.0088	0.0040	--	--
VOC	CHLOROFORM	mg/kg	19	--	--	2.30E-04	0.0080	--	--	0.0020	0.0011	0.0043	0.0024	--	--
VOC	CHLOROMETHANE	mg/kg	19	--	--	2.30E-04	0.0093	--	--	0.0023	0.0012	0.0055	0.0028	--	--
VOC	cis-1,2-DICHLOROETHYLENE	mg/kg	19	--	--	2.30E-04	0.0080	--	--	0.0020	0.0011	0.0045	0.0025	--	--
VOC	cis-1,3-DICHLOROPROPENE	mg/kg	19	--	--	2.30E-04	0.0031	--	--	6.59E-04	3.69E-04	9.86E-04	8.06E-04	--	--
VOC	DIBROMOCHLOROMETHANE	mg/kg	19	--	--	2.30E-04	0.010	--	--	0.0025	0.0014	0.0060	0.0030	--	--

TABLE 2-6
Summary Statistics for Subsurface Soil Samples from the AVMA (0 to ~6 feet bgs)
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Analyte Class	Analyte	Units	Number of Samples	Number of Detects	Frequency of Detection	Minimum Nondetect	Maximum Nondetect	Minimum Detect	Maximum Detect[a]	Mean	Standard Deviation	95 UCL Lognormal Concentration	95 UCL Normal Concentration	Exposure Point Concentration	EPC Basis
VOC	DIBROMOMETHANE	mg/kg	19	--	--	2.30E-04	0.0072	--	--	0.0018	9.85E-04	0.0037	0.0022	--	--
VOC	DICHLORODIFLUOROMETHANE	mg/kg	19	--	--	2.30E-04	0.019	--	--	0.0045	0.0026	0.015	0.0056	--	--
VOC	ETHYLBENZENE	mg/kg	19	4	21%	2.30E-04	0.0061	0.0082	0.039	0.0063	0.012	0.022	0.011	0.022	Log Normal
VOC	HEXACHLOROBUTADIENE	mg/kg	20	2	10%	2.30E-04	0.069	0.0071	0.024	0.0060	0.0083	0.019	0.0092	0.019	Log Normal
VOC	IODOMETHANE (METHYL IODIDE)	mg/kg	17	1	6%	0.0037	0.023	0.085	0.085	0.0091	0.020	0.012	0.017	0.012	Log Normal
VOC	ISOPROPYLBENZENE (CUMENE)	mg/kg	19	2	11%	2.30E-04	0.0035	0.011	0.012	0.0018	0.0034	0.0034	0.0032	0.0034	Log Normal
VOC	METHYL ETHYL KETONE (2-BUTANONE)	mg/kg	19	12	63%	0.0011	0.025	0.0088	0.16	0.042	0.045	0.20	0.060	0.16	Max Detect
VOC	METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	mg/kg	19	--	--	0.0011	0.0073	--	--	0.0014	7.69E-04	0.0018	0.0017	--	--
VOC	METHYLENE CHLORIDE	mg/kg	19	16	84%	2.30E-04	0.040	0.014	0.31	0.072	0.081	2.4	0.10	0.10	Normal
VOC	NAPHTHALENE	mg/kg	20	8	40%	3.14E-04	0.017	0.030	0.88	0.14	0.27	24	0.24	0.88	Max Detect
VOC	n-BUTYLBENZENE	mg/kg	19	1	5%	2.30E-04	0.0033	0.011	0.011	0.0013	0.0024	0.0022	0.0023	0.0022	Log Normal
VOC	n-PROPYLBENZENE	mg/kg	19	--	--	2.30E-04	0.0051	--	--	0.0013	6.62E-04	0.0023	0.0015	--	--
VOC	O-XYLENE (1,2-DIMETHYLBENZENE)	mg/kg	19	3	16%	2.30E-04	0.0090	0.010	0.097	0.011	0.026	0.038	0.021	0.038	Log Normal
VOC	P-CYMENE (p-ISOPROPYLTOLUENE)	mg/kg	19	3	16%	2.30E-04	0.0035	0.014	0.036	0.0051	0.011	0.015	0.0094	0.015	Log Normal
VOC	SEC-BUTYLBENZENE	mg/kg	19	--	--	2.30E-04	0.0031	--	--	7.80E-04	4.15E-04	0.0012	9.45E-04	--	--
VOC	STYRENE	mg/kg	19	1	5%	2.30E-04	0.0051	0.011	0.011	0.0018	0.0023	0.0035	0.0027	0.0035	Log Normal
VOC	t-BUTYLBENZENE	mg/kg	19	--	--	2.30E-04	0.0074	--	--	0.0018	9.66E-04	0.0038	0.0022	--	--
VOC	tert-BUTYL METHYL ETHER	mg/kg	17	1	6%	0.0011	0.0039	0.017	0.017	0.0020	0.0039	0.0026	0.0036	0.0026	Log Normal
VOC	TETRACHLOROETHYLENE(PCE)	mg/kg	19	4	21%	2.30E-04	0.0039	5.50E-04	0.53	0.043	0.13	0.14	0.095	0.14	Log Normal
VOC	TOLUENE	mg/kg	19	7	37%	2.30E-04	0.0080	0.0052	0.12	0.015	0.030	0.099	0.027	0.099	Log Normal
VOC	trans-1,2-DICHLOROETHENE	mg/kg	19	--	--	2.30E-04	0.012	--	--	0.0030	0.0016	0.0081	0.0037	--	--
VOC	trans-1,3-DICHLOROPROPENE	mg/kg	19	--	--	2.30E-04	0.0064	--	--	0.0015	8.60E-04	0.0031	0.0019	--	--
VOC	trans-1,4-DICHLORO-2-BUTENE	mg/kg	17	--	--	0.0055	0.031	--	--	0.0061	0.0032	0.0079	0.0075	--	--
VOC	TRICHLOROETHYLENE (TCE)	mg/kg	19	4	21%	0.0023	0.0084	3.30E-04	0.027	0.0036	0.0058	0.0058	0.0060	0.0058	Log Normal
VOC	TRICHLOROFLUOROMETHANE	mg/kg	19	--	--	2.30E-04	0.011	--	--	0.0028	0.0015	0.0074	0.0034	--	--
VOC	VINYL ACETATE	mg/kg	17	--	--	0.0018	0.0068	--	--	0.0019	7.33E-04	0.0023	0.0022	--	--
VOC	VINYL CHLORIDE	mg/kg	19	--	--	2.30E-04	0.010	--	--	0.0024	0.0013	0.0057	0.0029	--	--
VOC	XYLENES, m & p	mg/kg	19	9	47%	5.40E-04	0.0067	4.90E-04	0.14	0.020	0.043	0.10	0.037	0.10	Log Normal
VOC	XYLENES, TOTAL	mg/kg	1	--	--	0.019	0.019	--	--	0.0095	--	--	--	--	--

Notes
95 UCL = 95% upper confidence limit of the mean
PEST/PCB - Pesticides/Polychlorinated Biphenyls
SVOC - Semivolatile Organic Compounds
TPH - Total Petroleum Hydrocarbons
VOC - Volatile Organic Compounds
[a] The maximum detected concentration is also the exposure point concentration (EPC)

TABLE 2-7
Summary Statistics for Surface Soil Samples from the AVMA (0 to 1 foot bgs)
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Analyte Class	Analyte	Units	Number of Samples	Number of Detects	Frequency of Detection	Minimum Nondetect	Maximum Nondetect	Minimum Detect	Maximum Detect	Mean	Standard Deviation	95 UCL Lognormal Concentration	95 UCL Normal Concentration	Exposure Point Concentration	EPC Basis
METAL	ALUMINUM	mg/kg	8	8	100%	--	--	18,000	26,100	21,638	2,946	23,774	23,611	23,774	Log Normal
METAL	ANTIMONY	mg/kg	8	8	100%	--	--	0.090	0.59	0.38	0.17	0.74	0.50	0.50	Normal
METAL	ARSENIC	mg/kg	8	5	63%	1.0	1.2	2.1	6.7	2.9	2.3	15	4.4	4.4	Normal
METAL	BARIUM	mg/kg	8	8	100%	--	--	56	120	91	24	113	107	107	Normal
METAL	BERYLLIUM	mg/kg	8	8	100%	--	--	0.37	0.54	0.43	0.053	0.46	0.46	0.46	Log Normal
METAL	CADMIUM	mg/kg	8	8	100%	--	--	0.84	1.1	0.94	0.079	1.00	1.00	1.00	Log Normal
METAL	CALCIUM	mg/kg	8	8	100%	--	--	4,800	8,000	6,158	1,262	7,154	7,003	7,154	Log Normal
METAL	CHROMIUM, TOTAL	mg/kg	8	8	100%	--	--	28	42	37	4.3	40	40	40	Normal
METAL	COBALT	mg/kg	8	8	100%	--	--	11	15	13	1.4	14	14	14	Log Normal
METAL	COPPER	mg/kg	8	8	100%	--	--	23	30	27	2.6	29	29	29	Log Normal
METAL	IRON	mg/kg	8	8	100%	--	--	33,000	39,900	35,613	2,236	37,153	37,111	37,153	Log Normal
METAL	LEAD	mg/kg	8	8	100%	--	--	4.4	36	12	10	22	18	22	Log Normal
METAL	MAGNESIUM	mg/kg	8	8	100%	--	--	6,800	13,000	9,345	1,957	10,879	10,656	10,879	Log Normal
METAL	MANGANESE	mg/kg	8	8	100%	--	--	510	739	592	73	644	641	644	Log Normal
METAL	MERCURY	mg/kg	8	8	100%	--	--	0.045	0.090	0.063	0.016	0.077	0.074	0.074	Normal
METAL	NICKEL	mg/kg	8	8	100%	--	--	31	62	40	9.6	46	46	46	Log Normal
METAL	POTASSIUM	mg/kg	8	8	100%	--	--	740	990	883	86	946	940	940	Normal
METAL	SELENIUM	mg/kg	8	7	88%	1.3	1.3	3.6	11	5.9	3.1	20	8.1	8.1	Normal
METAL	SILVER	mg/kg	8	0	0%	0.29	0.54	--	--	0.22	0.039	0.25	0.24	--	--
METAL	SODIUM	mg/kg	8	8	100%	--	--	95	310	176	74	248	225	248	Log Normal
METAL	THALLIUM	mg/kg	8	0	0%	0.053	0.31	--	--	0.080	0.057	0.22	0.12	--	--
METAL	VANADIUM	mg/kg	8	8	100%	--	--	66	87	74	6.6	78	78	78	Log Normal
METAL	ZINC	mg/kg	8	8	100%	--	--	57	73	63	5.4	66	66	66	Log Normal
PEST	ALDRIN	mg/kg	8	0	0%	3.80E-04	0.0084	--	--	9.71E-04	0.0015	0.0069	0.0020	--	--
PEST	ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	mg/kg	8	1	13%	2.80E-04	0.0061	8.60E-04	8.60E-04	7.89E-04	0.0011	0.0065	0.0015	8.60E-04	Max Detect
PEST	ALPHA ENDOSULFAN	mg/kg	8	0	0%	2.30E-04	0.0083	--	--	9.22E-04	0.0015	0.011	0.0019	--	--
PEST	ALPHA-CHLORDANE	mg/kg	8	2	25%	3.11E-04	0.0077	4.00E-04	0.0011	0.0010	0.0013	0.0080	0.0019	0.0011	Max Detect
PEST	BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	mg/kg	8	2	25%	4.41E-04	0.0082	7.70E-04	9.60E-04	0.0011	0.0014	0.0059	0.0021	9.60E-04	Max Detect
PEST	BETA ENDOSULFAN	mg/kg	8	0	0%	3.70E-04	0.0075	--	--	8.77E-04	0.0013	0.0057	0.0018	--	--
PEST	CHLORDANE	mg/kg	4	0	0%	0.0015	0.027	--	--	0.0057	0.0062	1,296	0.013	--	--
PEST	DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	mg/kg	8	1	13%	4.00E-04	0.0075	8.60E-04	8.60E-04	9.73E-04	0.0013	0.0057	0.0018	8.60E-04	Max Detect
PEST	DIELDRIN	mg/kg	8	1	13%	2.80E-04	0.0064	3.60E-04	3.60E-04	7.63E-04	0.0011	0.0052	0.0015	3.60E-04	Max Detect
PEST	ENDOSULFAN SULFATE	mg/kg	8	2	25%	2.00E-04	0.0071	2.32E-04	4.60E-04	8.49E-04	0.0013	0.0076	0.0017	4.60E-04	Max Detect
PEST	ENDRIN	mg/kg	8	1	13%	3.76E-04	0.0070	0.0022	0.0022	0.0011	0.0013	0.0075	0.0020	0.0022	Max Detect
PEST	ENDRIN ALDEHYDE	mg/kg	8	1	13%	4.25E-04	0.0079	0.0028	0.0028	0.0014	0.0014	0.0082	0.0023	0.0028	Max Detect
PEST	ENDRIN KETONE	mg/kg	8	1	13%	2.40E-04	0.0055	3.20E-04	3.20E-04	6.55E-04	9.66E-04	0.0045	0.0013	3.20E-04	Max Detect
PEST	GAMMA BHC (LINDANE)	mg/kg	8	0	0%	3.98E-04	0.0074	--	--	9.60E-04	0.0013	0.0041	0.0018	--	--
PEST	GAMMA-CHLORDANE	mg/kg	8	0	0%	4.23E-04	0.0079	--	--	9.45E-04	0.0014	0.0052	0.0019	--	--
PEST	HEPTACHLOR	mg/kg	8	1	13%	3.59E-04	0.0067	0.0017	0.0017	0.0011	0.0011	0.0054	0.0019	0.0017	Max Detect
PEST	HEPTACHLOR EPOXIDE	mg/kg	8	1	13%	3.81E-04	0.0071	0.0025	0.0025	0.0012	0.0013	0.0083	0.0021	0.0025	Max Detect
PEST	METHOXYCHLOR	mg/kg	8	1	13%	0.0014	0.027	0.0025	0.0025	0.0034	0.0047	0.022	0.0065	0.0025	Max Detect
PEST	p,p'-DDD	mg/kg	8	4	50%	2.03E-04	0.0038	7.64E-04	0.038	0.0068	0.013	1.7	0.015	0.038	Max Detect
PEST	p,p'-DDE	mg/kg	8	5	63%	2.40E-04	0.0045	0.0012	0.039	0.0067	0.013	0.21	0.016	0.039	Max Detect
PEST	p,p'-DDT	mg/kg	8	6	75%	2.70E-04	0.0051	0.0046	0.24	0.043	0.081	35	0.097	0.24	Max Detect
PEST	PCB-1016 (AROCLOR 1016)	mg/kg	8	0	0%	0.0012	0.021	--	--	0.0030	0.0036	0.012	0.0053	--	--
PEST	PCB-1221 (AROCLOR 1221)	mg/kg	8	0	0%	0.0028	0.092	--	--	0.010	0.017	0.11	0.021	--	--
PEST	PCB-1232 (AROCLOR 1232)	mg/kg	8	0	0%	0.0028	0.073	--	--	0.0083	0.013	0.070	0.017	--	--
PEST	PCB-1242 (AROCLOR 1242)	mg/kg	8	0	0%	0.0021	0.039	--	--	0.0048	0.0068	0.024	0.0094	--	--
PEST	PCB-1248 (AROCLOR 1248)	mg/kg	8	0	0%	0.0021	0.039	--	--	0.0048	0.0068	0.024	0.0094	--	--
PEST	PCB-1254 (AROCLOR 1254)	mg/kg	8	0	0%	0.0016	0.030	--	--	0.0039	0.0052	0.017	0.0074	--	--
PEST	PCB-1260 (AROCLOR 1260)	mg/kg	8	0	0%	0.0016	0.030	--	--	0.0038	0.0052	0.017	0.0073	--	--
PEST	TOXAPHENE	mg/kg	8	0	0%	0.0052	0.12	--	--	0.014	0.022	0.11	0.029	--	--
SVOC	2,4,5-TRICHLOROPHENOL	mg/kg	8	0	0%	0.030	0.17	--	--	0.025	0.024	0.042	0.041	--	--
SVOC	2,4,6-TRICHLOROPHENOL	mg/kg	8	0	0%	0.030	0.17	--	--	0.024	0.025	0.041	0.041	--	--
SVOC	2,4-DICHLOROPHENOL	mg/kg	8	0	0%	0.035	0.20	--	--	0.029	0.029	0.049	0.048	--	--
SVOC	2,4-DIMETHYLPHENOL	mg/kg	8	0	0%	0.039	0.22	--	--	0.032	0.032	0.054	0.053	--	--

TABLE 2-7
Summary Statistics for Surface Soil Samples from the AVMA (0 to 1 foot bgs)
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Analyte Class	Analyte	Units	Number of Samples	Number of Detects	Frequency of Detection	Minimum Nondetect	Maximum Nondetect	Minimum Detect	Maximum Detect	Mean	Standard Deviation	95 UCL Lognormal Concentration	95 UCL Normal Concentration	Exposure Point Concentration	EPC Basis
SVOC	2,4-DINITROPHENOL	mg/kg	8	0	0%	0.23	1.3	--	--	0.19	0.19	0.32	0.31	--	--
SVOC	2,4-DINITROTOLUENE	mg/kg	8	0	0%	0.036	0.21	--	--	0.030	0.030	0.051	0.050	--	--
SVOC	2,6-DINITROTOLUENE	mg/kg	8	0	0%	0.026	0.15	--	--	0.022	0.022	0.037	0.036	--	--
SVOC	2-CHLORONAPHTHALENE	mg/kg	8	0	0%	0.038	0.22	--	--	0.031	0.032	0.054	0.053	--	--
SVOC	2-CHLOROPHENOL	mg/kg	8	0	0%	0.059	0.33	--	--	0.048	0.047	0.081	0.080	--	--
SVOC	2-METHYLNAPHTHALENE	mg/kg	8	3	38%	0.047	0.048	0.28	1.5	0.33	0.54	20	0.69	1.5	Max Detect
SVOC	2-METHYLPHENOL (o-CRESOL)	mg/kg	8	0	0%	0.049	0.28	--	--	0.040	0.040	0.068	0.067	--	--
SVOC	2-NITROANILINE	mg/kg	8	0	0%	0.031	0.18	--	--	0.026	0.026	0.044	0.043	--	--
SVOC	2-NITROPHENOL	mg/kg	8	0	0%	0.041	0.23	--	--	0.033	0.033	0.056	0.055	--	--
SVOC	3&4-METHYLPHENOL	mg/kg	8	0	0%	0.083	0.47	--	--	0.068	0.068	0.11	0.11	--	--
SVOC	3,3'-DICHLOROBENZIDINE	mg/kg	8	0	0%	0.059	0.33	--	--	0.048	0.047	0.081	0.079	--	--
SVOC	3-NITROANILINE	mg/kg	8	0	0%	0.036	0.21	--	--	0.030	0.030	0.051	0.050	--	--
SVOC	4,6-DINITRO-2-METHYLPHENOL	mg/kg	8	0	0%	0.022	0.12	--	--	0.018	0.017	0.030	0.029	--	--
SVOC	4-BROMOPHENYL PHENYL ETHER	mg/kg	8	0	0%	0.037	0.21	--	--	0.030	0.030	0.051	0.050	--	--
SVOC	4-CHLORO-3-METHYLPHENOL	mg/kg	8	0	0%	0.037	0.21	--	--	0.030	0.030	0.051	0.050	--	--
SVOC	4-CHLOROANILINE	mg/kg	8	0	0%	0.090	0.51	--	--	0.074	0.073	0.13	0.12	--	--
SVOC	4-CHLOROPHENYL PHENYL ETHER	mg/kg	8	0	0%	0.032	0.18	--	--	0.026	0.026	0.044	0.043	--	--
SVOC	4-NITROANILINE	mg/kg	8	0	0%	0.039	0.22	--	--	0.032	0.032	0.054	0.053	--	--
SVOC	4-NITROPHENOL	mg/kg	8	0	0%	0.022	0.13	--	--	0.018	0.019	0.032	0.031	--	--
SVOC	ACENAPHTHENE	mg/kg	8	2	25%	0.042	0.23	0.057	1.2	0.19	0.41	1.7	0.46	1.2	Max Detect
SVOC	ACENAPHTHYLENE	mg/kg	8	0	0%	0.038	0.22	--	--	0.031	0.032	0.054	0.053	--	--
SVOC	ANTHRACENE	mg/kg	8	3	38%	0.038	0.21	0.068	1.1	0.18	0.37	1.9	0.43	1.1	Max Detect
SVOC	BENZIDINE	mg/kg	3	0	0%	0.28	1.6	--	--	0.36	0.38	4,746	1.0	--	--
SVOC	BENZO(a)ANTHRACENE	mg/kg	8	4	50%	0.038	0.044	0.11	1.2	0.23	0.40	5.6	0.50	1.2	Max Detect
SVOC	BENZO(a)PYRENE	mg/kg	8	3	38%	0.031	0.17	0.096	1.1	0.19	0.37	3.5	0.44	1.1	Max Detect
SVOC	BENZO(b)FLUORANTHENE	mg/kg	8	3	38%	0.028	0.15	0.094	1.1	0.19	0.37	4.1	0.44	1.1	Max Detect
SVOC	BENZO(g,h,i)PERYLENE	mg/kg	8	3	38%	0.041	0.23	0.088	0.47	0.11	0.15	0.66	0.21	0.47	Max Detect
SVOC	BENZO(k)FLUORANTHENE	mg/kg	8	2	25%	0.036	0.20	0.085	0.45	0.091	0.15	0.55	0.19	0.45	Max Detect
SVOC	BENZOIC ACID	mg/kg	8	0	0%	0.45	2.6	--	--	0.37	0.37	0.63	0.62	--	--
SVOC	BENZYL ALCOHOL	mg/kg	8	0	0%	0.050	0.28	--	--	0.040	0.040	0.069	0.067	--	--
SVOC	BENZYL BUTYL PHTHALATE	mg/kg	8	0	0%	0.031	0.17	--	--	0.025	0.024	0.042	0.041	--	--
SVOC	bis(2-CHLOROETHOXY) METHANE	mg/kg	8	0	0%	0.067	0.38	--	--	0.055	0.055	0.093	0.091	--	--
SVOC	bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	mg/kg	8	0	0%	0.069	0.39	--	--	0.056	0.056	0.096	0.094	--	--
SVOC	bis(2-CHLOROISOPROPYL) ETHER	mg/kg	8	0	0%	0.076	0.43	--	--	0.062	0.062	0.11	0.10	--	--
SVOC	bis(2-ETHYLHEXYL) PHTHALATE	mg/kg	8	6	75%	0.036	0.20	0.041	0.090	0.062	0.027	0.11	0.080	0.080	Normal
SVOC	CHRYSENE	mg/kg	8	4	50%	0.038	0.044	0.19	1.3	0.35	0.51	28	0.69	1.3	Max Detect
SVOC	DIBENZ(a,h)ANTHRACENE	mg/kg	8	1	13%	0.042	0.24	0.18	0.18	0.054	0.061	0.15	0.095	0.15	Log Normal
SVOC	DIBENZOFURAN	mg/kg	8	1	13%	0.037	0.21	0.77	0.77	0.12	0.26	0.92	0.30	0.77	Max Detect
SVOC	DIETHYL PHTHALATE	mg/kg	8	0	0%	0.037	0.21	--	--	0.030	0.030	0.051	0.051	--	--
SVOC	DIMETHYL PHTHALATE	mg/kg	8	0	0%	0.037	0.21	--	--	0.030	0.030	0.051	0.051	--	--
SVOC	DI-n-BUTYL PHTHALATE	mg/kg	8	7	88%	0.044	0.044	0.063	0.49	0.29	0.18	1.9	0.41	0.41	Normal
SVOC	DI-n-OCTYLPHTHALATE	mg/kg	8	1	13%	0.034	0.19	0.10	0.10	0.038	0.037	0.091	0.062	0.091	Log Normal
SVOC	DIPHENYLAMINE	mg/kg	3	0	0%	0.048	0.27	--	--	0.061	0.064	609	0.17	--	--
SVOC	FLUORANTHENE	mg/kg	8	3	38%	0.043	0.24	0.14	2.1	0.34	0.72	8.9	0.82	2.1	Max Detect
SVOC	FLUORENE	mg/kg	8	3	38%	0.038	0.044	0.054	1.1	0.19	0.38	2.9	0.44	1.1	Max Detect
SVOC	HEXACHLOROBENZENE	mg/kg	8	0	0%	0.037	0.21	--	--	0.030	0.030	0.051	0.051	--	--
SVOC	HEXACHLOROCYCLOPENTADIENE	mg/kg	8	0	0%	0.013	0.073	--	--	0.010	0.011	0.018	0.017	--	--
SVOC	HEXACHLOROETHANE	mg/kg	8	0	0%	0.061	0.35	--	--	0.050	0.050	0.086	0.084	--	--
SVOC	INDENO(1,2,3-c,d)PYRENE	mg/kg	8	3	38%	0.035	0.19	0.043	0.53	0.10	0.18	0.63	0.22	0.53	Max Detect
SVOC	ISOPHORONE	mg/kg	8	0	0%	0.044	0.25	--	--	0.036	0.036	0.061	0.060	--	--
SVOC	NITROBENZENE	mg/kg	8	0	0%	0.060	0.34	--	--	0.049	0.049	0.083	0.082	--	--
SVOC	N-NITROSODI-n-PROPYLAMINE	mg/kg	8	0	0%	0.055	0.31	--	--	0.045	0.045	0.076	0.074	--	--
SVOC	N-NITROSODIPHENYLAMINE	mg/kg	8	0	0%	0.089	0.50	--	--	0.072	0.072	0.12	0.12	--	--
SVOC	PENTACHLOROPHENOL	mg/kg	8	0	0%	0.026	0.15	--	--	0.021	0.022	0.036	0.036	--	--
SVOC	PHENANTHRENE	mg/kg	8	4	50%	0.038	0.044	0.28	4.2	0.68	1.4	162	1.6	4.2	Max Detect
SVOC	PHENOL	mg/kg	8	0	0%	0.035	0.20	--	--	0.029	0.029	0.049	0.048	--	--

TABLE 2-7
Summary Statistics for Surface Soil Samples from the AVMA (0 to 1 foot bgs)
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Analyte Class	Analyte	Units	Number of Samples	Number of Detects	Frequency of Detection	Minimum Nondetect	Maximum Nondetect	Minimum Detect	Maximum Detect	Mean	Standard Deviation	95 UCL Lognormal Concentration	95 UCL Normal Concentration	Exposure Point Concentration	EPC Basis
SVOC	PYRENE	mg/kg	8	4	50%	0.036	0.041	0.36	3.1	0.57	1.0	153	1.3	3.1	Max Detect
TPH	DIESEL RANGE ORGANICS	mg/kg	8	8	100%	--	--	2.2	3,800	535	1,325	789,427	1,423	3,800	Max Detect
TPH	GASOLINE RANGE ORGANICS	mg/kg	8	5	63%	0.26	0.47	0.33	6.0	1.1	2.0	6.9	2.5	6.0	Max Detect
VOC	1,1,1,2-TETRACHLOROETHANE	mg/kg	8	0	0%	0.0024	0.0074	--	--	0.0021	8.49E-04	0.0029	0.0026	--	--
VOC	1,1,1-TRICHLOROETHANE	mg/kg	8	0	0%	0.0024	0.0074	--	--	0.0021	8.49E-04	0.0029	0.0026	--	--
VOC	1,1,2,2-TETRACHLOROETHANE	mg/kg	8	0	0%	0.0023	0.0071	--	--	0.0020	8.14E-04	0.0028	0.0025	--	--
VOC	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	mg/kg	8	0	0%	0.0039	0.012	--	--	0.0034	0.0014	0.0048	0.0043	--	--
VOC	1,1,2-TRICHLOROETHANE	mg/kg	8	0	0%	0.0045	0.014	--	--	0.0040	0.0016	0.0056	0.0051	--	--
VOC	1,1-DICHLOROETHANE	mg/kg	8	0	0%	0.0028	0.0087	--	--	0.0024	0.0010	0.0034	0.0031	--	--
VOC	1,1-DICHLOROETHENE	mg/kg	8	0	0%	0.0036	0.011	--	--	0.0031	0.0013	0.0044	0.0040	--	--
VOC	1,1-DICHLOROPROPENE	mg/kg	8	0	0%	0.0019	0.0061	--	--	0.0017	7.04E-04	0.0024	0.0022	--	--
VOC	1,2,3-TRICHLOROBENZENE	mg/kg	8	0	0%	0.0016	0.0051	--	--	0.0014	5.88E-04	0.0020	0.0018	--	--
VOC	1,2,3-TRICHLOROPROPANE	mg/kg	8	0	0%	0.0051	0.016	--	--	0.0045	0.0018	0.0063	0.0057	--	--
VOC	1,2,4-TRICHLOROBENZENE	mg/kg	8	0	0%	0.0012	0.0039	--	--	0.0011	4.49E-04	0.0015	0.0014	--	--
VOC	1,2,4-TRIMETHYLBENZENE	mg/kg	8	1	13%	0.0015	0.0048	0.085	0.085	0.012	0.030	0.13	0.032	0.085	Max Detect
VOC	1,2-DIBROMO-3-CHLOROPROPANE	mg/kg	8	0	0%	0.012	0.039	--	--	0.011	0.0045	0.015	0.014	--	--
VOC	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	mg/kg	8	0	0%	0.0017	0.0055	--	--	0.0015	6.31E-04	0.0021	0.0019	--	--
VOC	1,2-DICHLOROBENZENE	mg/kg	8	0	0%	0.0022	0.0068	--	--	0.0019	7.80E-04	0.0027	0.0024	--	--
VOC	1,2-DICHLOROETHANE	mg/kg	8	0	0%	0.0038	0.012	--	--	0.0033	0.0014	0.0047	0.0043	--	--
VOC	1,2-DICHLOROPROPANE	mg/kg	8	0	0%	0.0036	0.011	--	--	0.0031	0.0013	0.0044	0.0040	--	--
VOC	1,3,5-TRIMETHYLBENZENE (MESITYLENE)	mg/kg	8	1	13%	0.0024	0.0074	0.013	0.013	0.0034	0.0040	0.0079	0.0061	0.0079	Log Normal
VOC	1,3-DICHLOROBENZENE	mg/kg	8	0	0%	0.0023	0.0071	--	--	0.0020	8.14E-04	0.0028	0.0025	--	--
VOC	1,3-DICHLOROPROPANE	mg/kg	8	0	0%	0.0013	0.0042	--	--	0.0012	4.86E-04	0.0017	0.0015	--	--
VOC	1,4-DICHLOROBENZENE	mg/kg	8	0	0%	0.0029	0.0090	--	--	0.0025	0.0010	0.0035	0.0032	--	--
VOC	2,2-DICHLOROPROPANE	mg/kg	8	0	0%	0.0029	0.0090	--	--	0.0025	0.0010	0.0035	0.0032	--	--
VOC	2-CHLOROETHYL VINYL ETHER	mg/kg	8	0	0%	0.0025	0.0077	--	--	0.0022	8.78E-04	0.0030	0.0028	--	--
VOC	2-CHLOROTOLUENE	mg/kg	8	0	0%	0.0011	0.0035	--	--	9.94E-04	4.03E-04	0.0014	0.0013	--	--
VOC	2-HEXANONE	mg/kg	8	0	0%	0.0017	0.0055	--	--	0.0015	6.31E-04	0.0021	0.0019	--	--
VOC	4-CHLOROTOLUENE	mg/kg	8	0	0%	0.0026	0.0080	--	--	0.0023	9.19E-04	0.0032	0.0029	--	--
VOC	ACETONE	mg/kg	8	5	63%	0.012	0.017	0.033	0.26	0.073	0.089	1.3	0.13	0.26	Max Detect
VOC	ACRYLONITRILE	mg/kg	8	0	0%	0.0034	0.011	--	--	0.0030	0.0013	0.0042	0.0038	--	--
VOC	BENZENE	mg/kg	8	0	0%	0.0018	0.0058	--	--	0.0016	6.69E-04	0.0023	0.0021	--	--
VOC	BROMOBENZENE	mg/kg	8	0	0%	0.0035	0.011	--	--	0.0031	0.0013	0.0043	0.0039	--	--
VOC	BROMOCHLOROMETHANE	mg/kg	8	0	0%	0.0035	0.011	--	--	0.0031	0.0013	0.0043	0.0039	--	--
VOC	BROMODICHLOROMETHANE	mg/kg	8	0	0%	0.0024	0.0074	--	--	0.0021	8.49E-04	0.0029	0.0026	--	--
VOC	BROMOFORM	mg/kg	8	0	0%	0.0033	0.010	--	--	0.0029	0.0011	0.0040	0.0036	--	--
VOC	BROMOMETHANE	mg/kg	8	0	0%	0.0078	0.024	--	--	0.0068	0.0027	0.0095	0.0086	--	--
VOC	CARBON DISULFIDE	mg/kg	8	0	0%	0.0013	0.0042	--	--	0.0012	4.86E-04	0.0017	0.0015	--	--
VOC	CARBON TETRACHLORIDE	mg/kg	8	0	0%	0.0017	0.0055	--	--	0.0015	6.31E-04	0.0021	0.0019	--	--
VOC	CHLOROBENZENE	mg/kg	8	0	0%	0.0011	0.0035	--	--	9.94E-04	4.03E-04	0.0014	0.0013	--	--
VOC	CHLOROETHANE	mg/kg	8	0	0%	0.0037	0.012	--	--	0.0033	0.0014	0.0046	0.0042	--	--
VOC	CHLOROFORM	mg/kg	8	0	0%	0.0026	0.0080	--	--	0.0023	9.19E-04	0.0032	0.0029	--	--
VOC	CHLOROMETHANE	mg/kg	8	0	0%	0.0030	0.0093	--	--	0.0026	0.0011	0.0037	0.0033	--	--
VOC	cis-1,2-DICHLOROETHYLENE	mg/kg	8	0	0%	0.0026	0.0080	--	--	0.0023	9.19E-04	0.0032	0.0029	--	--
VOC	cis-1,3-DICHLOROPROPENE	mg/kg	8	0	0%	7.80E-04	0.0024	--	--	6.80E-04	2.73E-04	9.48E-04	8.63E-04	--	--
VOC	DIBROMOCHLOROMETHANE	mg/kg	8	0	0%	0.0033	0.010	--	--	0.0029	0.0011	0.0040	0.0036	--	--
VOC	DIBROMOMETHANE	mg/kg	8	0	0%	0.0022	0.0068	--	--	0.0019	7.80E-04	0.0027	0.0024	--	--
VOC	DICHLORODIFLUOROMETHANE	mg/kg	8	0	0%	0.0060	0.019	--	--	0.0053	0.0022	0.0075	0.0068	--	--
VOC	ETHYLBENZENE	mg/kg	8	1	13%	0.0019	0.0061	0.038	0.038	0.0062	0.013	0.029	0.015	0.029	Log Normal
VOC	HEXACHLOROBUTADIENE	mg/kg	8	1	13%	0.0042	0.013	0.024	0.024	0.0061	0.0074	0.014	0.011	0.014	Log Normal
VOC	IODOMETHANE (METHYL IODIDE)	mg/kg	8	0	0%	0.0043	0.014	--	--	0.0038	0.0016	0.0054	0.0049	--	--
VOC	ISOPROPYLBENZENE (CUMENE)	mg/kg	8	1	13%	8.20E-04	0.0026	0.012	0.012	0.0021	0.0040	0.0082	0.0048	0.0082	Log Normal
VOC	METHYL ETHYL KETONE (2-BUTANONE)	mg/kg	8	6	75%	0.0091	0.016	0.040	0.13	0.053	0.042	0.37	0.081	0.081	Normal
VOC	METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	mg/kg	8	0	0%	0.0015	0.0048	--	--	0.0014	5.56E-04	0.0019	0.0017	--	--
VOC	METHYLENE CHLORIDE	mg/kg	8	8	100%	--	--	0.018	0.20	0.067	0.065	0.20	0.11	0.20	Max Detect
VOC	NAPHTHALENE	mg/kg	8	3	38%	0.0010	0.0024	0.060	0.36	0.095	0.16	12,595	0.20	0.36	Max Detect

TABLE 2-7
Summary Statistics for Surface Soil Samples from the AVMA (0 to 1 foot bgs)
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Analyte Class	Analyte	Units	Number of Samples	Number of Detects	Frequency of Detection	Minimum Nondetect	Maximum Nondetect	Minimum Detect	Maximum Detect	Mean	Standard Deviation	95 UCL Lognormal Concentration	95 UCL Normal Concentration	Exposure Point Concentration	EPC Basis
VOC	n-BUTYLBENZENE	mg/kg	8	0	0%	9.70E-04	0.0031	--	--	8.61E-04	3.57E-04	0.0012	0.0011	--	--
VOC	n-PROPYLBENZENE	mg/kg	8	0	0%	0.0016	0.0051	--	--	0.0014	5.88E-04	0.0020	0.0018	--	--
VOC	O-XYLENE (1,2-DIMETHYLBENZENE)	mg/kg	8	1	13%	0.0029	0.0090	0.097	0.097	0.014	0.033	0.10	0.037	0.097	Max Detect
VOC	P-CYMENE (p-ISOPROPYLTOLUENE)	mg/kg	8	2	25%	0.0011	0.0035	0.014	0.036	0.0070	0.013	0.13	0.015	0.036	Max Detect
VOC	SEC-BUTYLBENZENE	mg/kg	8	0	0%	9.40E-04	0.0030	--	--	8.26E-04	3.43E-04	0.0012	0.0011	--	--
VOC	STYRENE	mg/kg	8	0	0%	0.0016	0.0051	--	--	0.0014	5.88E-04	0.0020	0.0018	--	--
VOC	t-BUTYLBENZENE	mg/kg	8	0	0%	0.0024	0.0074	--	--	0.0021	8.49E-04	0.0029	0.0026	--	--
VOC	tert-BUTYL METHYL ETHER	mg/kg	8	0	0%	0.0012	0.0039	--	--	0.0011	4.49E-04	0.0015	0.0014	--	--
VOC	TETRACHLOROETHYLENE(PCE)	mg/kg	8	0	0%	0.0012	0.0039	--	--	0.0011	4.49E-04	0.0015	0.0014	--	--
VOC	TOLUENE	mg/kg	8	2	25%	0.0026	0.0080	0.0097	0.062	0.011	0.021	0.078	0.025	0.062	Max Detect
VOC	trans-1,2-DICHLOROETHENE	mg/kg	8	0	0%	0.0038	0.012	--	--	0.0033	0.0014	0.0047	0.0043	--	--
VOC	trans-1,3-DICHLOROPROPENE	mg/kg	8	0	0%	0.0020	0.0064	--	--	0.0018	7.39E-04	0.0025	0.0023	--	--
VOC	trans-1,4-DICHLORO-2-BUTENE	mg/kg	8	0	0%	0.0065	0.020	--	--	0.0056	0.0023	0.0078	0.0071	--	--
VOC	TRICHLOROETHYLENE (TCE)	mg/kg	8	0	0%	0.0027	0.0084	--	--	0.0024	9.61E-04	0.0033	0.0030	--	--
VOC	TRICHLOROFLUOROMETHANE	mg/kg	8	0	0%	0.0035	0.011	--	--	0.0031	0.0013	0.0043	0.0039	--	--
VOC	VINYL ACETATE	mg/kg	8	0	0%	0.0022	0.0068	--	--	0.0019	7.80E-04	0.0027	0.0024	--	--
VOC	VINYL CHLORIDE	mg/kg	8	0	0%	0.0032	0.010	--	--	0.0028	0.0011	0.0039	0.0036	--	--
VOC	XYLENES, m & p	mg/kg	8	3	38%	0.0015	0.0027	0.013	0.14	0.022	0.048	2.0	0.054	0.14	Max Detect

Notes
95 UCL = 95% upper confidence limit of the mean
PEST- Pesticides
SVOC - Semivolatile Organic Compounds
TPH - Total Petroleum Hydrocarbons
VOC - Volatile Organic Compounds

TABLE 2-8

Building 35-752—Background Screening for Soil Samples (depths 0 to ~6 feet bgs) Utilized in the Evaluation of Terrestrial Plants and Invertebrates

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analytes	CAS	Units	Number of Samples	Number of Detects	Frequency of Detection	Minimum Nondetect	Maximum Nondetect	Minimum Detect	Maximum Detect	Background 95% UTL [a]	Background from Postwide [b]	Retained?
ALUMINUM	7429-90-5	mg/kg	9	9	100%	--	--	8,620	18,700		19000	No
ANTIMONY	7440-36-0	mg/kg	9	0	0%	10	10	--	--		34.8	No
ARSENIC	7440-38-2	mg/kg	49	49	100%	--	--	3.0	8.0	8.84		No
BARIUM	7440-39-3	mg/kg	49	49	100%	--	--	38	220	95.19		Yes
BERYLLIUM	7440-41-7	mg/kg	9	0	0%	1.0	1.0	--	--		0.52	No [d]
CADMIUM	7440-43-9	mg/kg	49	3	6%	0.50	1.0	0.50	2.0	2.2		No
CALCIUM	7440-70-2	mg/kg	9	9	100%	--	--	3,150	7,220		nutrient	No [e]
CHROMIUM, TOTAL	7440-47-3	mg/kg	49	49	100%	--	--	23	64	43.84		Yes
COBALT	7440-48-4	mg/kg	9	9	100%	--	--	7.0	13		17	No
COPPER	7440-50-8	mg/kg	9	9	100%	--	--	20	34	51.89		No
IRON	7439-89-6	mg/kg	9	9	100%	--	--	18,500	30,900		nutrient	No [e]
LEAD	7439-92-1	mg/kg	49	48	98%	4.0	4.0	5.0	200	14.25		Yes
MAGNESIUM	7439-95-4	mg/kg	9	9	100%	--	--	5,930	10,300		nutrient	No [e]
MANGANESE	7439-96-5	mg/kg	9	9	100%	--	--	383	669		770	No
MERCURY	7439-97-6	mg/kg	49	13	27%	0.050	0.20	0.050	0.30	0.6 [c]		No
NICKEL	7440-02-0	mg/kg	34	34	100%	--	--	23	49	50.64		No
POTASSIUM	7440-09-7	mg/kg	9	7	78%	400	400	440	610		nutrient	No [e]
SELENIUM	7782-49-2	mg/kg	49	0	0%	0.40	1.0	--	--	2.5 [c]		No [d]
SILVER	7440-22-4	mg/kg	49	1	2%	0.40	2.0	0.60	0.60	4.2 [c]		No
SODIUM	7440-23-5	mg/kg	9	9	100%	--	--	65	171		nutrient	No [e]
THALLIUM	7440-28-0	mg/kg	9	0	0%	1.0	1.0	--	--		0.68	No [d]
VANADIUM	7440-62-2	mg/kg	9	9	100%	--	--	28	60		64	No
ZINC	7440-66-6	mg/kg	9	9	100%	--	--	47	86	80.79		Yes

Notes:

[a] Background values represented by the 95% Upper Tolerance Limit (UTL) for the "All" soil depth are from the *Background Data Analysis Report, Fort Richardson, Alaska* (E&E, 1996). These values given preference because they were developed specifically for Fort Richardson.

[b] In the absence of a background value from E&E (1996), values developed for the 1998 Postwide Ecological Risk Assessment at Fort Richardson (ENSR, 1998b) were used.

[c] No 95% UTL was calculated; therefore, the maximum reported concentration was used for screening purposes.

[d] Non-detected analytes were not retained for further evaluation.

[e] Essential macronutrients were not retained for further evaluation.

Shaded analytes were retained for further evaluation because the maximum soil concentration exceeded the background value.

TABLE 2-9

Building 35-752—Background Screening for Soil Samples (depths 0 to 1 foot bgs) Utilized in the Evaluation of Birds and Mammals

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analytes	CAS	Units	Number of Samples	Number of Detects	Frequency of Detection	Minimum Nondetect	Maximum Nondetect	Minimum Detect	Maximum Detect	Background 95% UTL [a]	Background from Postwide [b]	Retained?
ALUMINUM	7429-90-5	mg/kg	8	8	100%	--	--	8,620	18,700		19000	No
ANTIMONY	7440-36-0	mg/kg	8	0	0%	10	10	--	--		34.8	No [f]
ARSENIC	7440-38-2	mg/kg	28	28	100%	--	--	3.0	8.0	9.91		No
BARIUM	7440-39-3	mg/kg	28	28	100%	--	--	38	220	104.69		Yes
BERYLLIUM	7440-41-7	mg/kg	8	0	0%	1.0	1.0	--	--		0.52	No [f]
CADMIUM	7440-43-9	mg/kg	28	3	11%	0.50	1.0	0.50	2.0	2.2 [c]		No
CALCIUM	7440-70-2	mg/kg	8	8	100%	--	--	3,150	7,220		nutrient	No [e]
CHROMIUM, TOTAL	7440-47-3	mg/kg	28	28	100%	--	--	23	64	43.84 [c]		Yes
COBALT	7440-48-4	mg/kg	8	8	100%	--	--	7.0	13		17	No
COPPER	7440-50-8	mg/kg	8	8	100%	--	--	20	34	51.89 [c]		No
IRON	7439-89-6	mg/kg	8	8	100%	--	--	18,500	30,900		nutrient	No [e]
LEAD	7439-92-1	mg/kg	28	27	96%	4.0	4.0	6.0	200	21.74		Yes
MAGNESIUM	7439-95-4	mg/kg	8	8	100%	--	--	5,930	10,300		nutrient	No [e]
MANGANESE	7439-96-5	mg/kg	8	8	100%	--	--	383	669		770	No
MERCURY	7439-97-6	mg/kg	28	10	36%	0.050	0.20	0.050	0.30	0.6 [c,d]		No
NICKEL	7440-02-0	mg/kg	16	16	100%	--	--	23	49	48.73		Yes
POTASSIUM	7440-09-7	mg/kg	8	6	75%	400	400	440	610		nutrient	No [e]
SELENIUM	7782-49-2	mg/kg	28	0	0%	0.40	1.0	--	--	2.5 [c,d]		No [f]
SILVER	7440-22-4	mg/kg	28	1	4%	0.40	2.0	0.60	0.60	4.2 [c,d]		No
SODIUM	7440-23-5	mg/kg	8	8	100%	--	--	65	171		nutrient	No [e]
THALLIUM	7440-28-0	mg/kg	8	0	0%	1.0	1.0	--	--		0.68	No [f]
VANADIUM	7440-62-2	mg/kg	8	8	100%	--	--	28	60		64	No
ZINC	7440-66-6	mg/kg	8	8	100%	--	--	47	86	80.79 [c]		Yes

Notes:

[a] Background values represented by the 95% Upper Tolerance Limit (UTL) for the "Surface" soil depth (0 to 0.5 foot bgs) are from the *Background Data Analysis Report, Fort Richardson, Alaska* (E&E, 1996).

[b] In the absence of a background value from E&E (1996), values developed for the 1998 Postwide Ecological Risk Assessment at Fort Richardson (ENSR, 1998b) were used.

[c] No value for the "Surface" soil depth was calculated. The only value reported was for the "All" soil depth; therefore, this value was used for screening purposes.

[d] No 95% UTL was calculated; therefore, the maximum reported concentration was used for screening purposes

[e] Essential macronutrients were not retained for further evaluation.

[f] Non-detected analytes were not retained for further evaluation.

Shaded analytes were retained for further evaluation because the maximum soil concentration exceeded the background value.

TABLE 2-10

AVMA—Background Screening for Soil Samples (depths 0 to ~6 feet bgs) Utilized in the Evaluation of Terrestrial Plants and Invertebrates

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analytes	CAS	Units	Number of Samples	Number of Detects	Frequency of Detection	Minimum Nondetect	Maximum Nondetect	Minimum Detect	Maximum Detect	Background 95% UTL [a]	Background from Postwide [b]	Retained?
ALUMINUM	7429-90-5	mg/kg	17	17	100%	--	--	16,000	26,100		19000	Yes
ANTIMONY	7440-36-0	mg/kg	17	17	100%	--	--	0.090	0.59		34.8	No
ARSENIC	7440-38-2	mg/kg	19	16	84%	1.0	1.2	1.0	11	8.84		Yes
BARIUM	7440-39-3	mg/kg	19	19	100%	--	--	37	120	95.19		Yes
BERYLLIUM	7440-41-7	mg/kg	17	17	100%	--	--	0.33	0.54		0.52	Yes
CADMIUM	7440-43-9	mg/kg	19	18	95%	0.056	0.056	0.75	1.4	2.2		No
CALCIUM	7440-70-2	mg/kg	17	17	100%	--	--	4,800	12,050		nutrient	No [d]
CHROMIUM, TOTAL	7440-47-3	mg/kg	19	19	100%	--	--	26	51	43.84		Yes
COBALT	7440-48-4	mg/kg	17	17	100%	--	--	11	15		17	No
COPPER	7440-50-8	mg/kg	17	17	100%	--	--	23	33	51.89		No
IRON	7439-89-6	mg/kg	17	17	100%	--	--	30,000	41,000		nutrient	No [d]
LEAD	7439-92-1	mg/kg	19	19	100%	--	--	3.2	43	14.25		Yes
MAGNESIUM	7439-95-4	mg/kg	17	17	100%	--	--	6,800	13,000		nutrient	No [d]
MANGANESE	7439-96-5	mg/kg	17	17	100%	--	--	510	850		770	Yes
MERCURY	7439-97-6	mg/kg	19	19	100%	--	--	0.037	0.095	0.6 [c]		No
NICKEL	7440-02-0	mg/kg	17	17	100%	--	--	31	62	50.64		Yes
POTASSIUM	7440-09-7	mg/kg	17	17	100%	--	--	700	1,180		nutrient	No [d]
SELENIUM	7782-49-2	mg/kg	19	15	79%	1.3	2.5	2.6	11	2.5 [c]		Yes
SILVER	7440-22-4	mg/kg	19	--	--	0.28	0.54	--	--	4.2 [c]		No [f]
SODIUM	7440-23-5	mg/kg	17	17	100%	--	--	82	310		nutrient	No [d]
THALLIUM	7440-28-0	mg/kg	17	1	6%	0.049	0.31	0.27	0.27		0.68	No
VANADIUM	7440-62-2	mg/kg	17	17	100%	--	--	57	87		64	Yes
ZINC	7440-66-6	mg/kg	17	17	100%	--	--	57	140	80.79		Yes

Notes:

[a] Background values represented by the 95% Upper Tolerance Limit (UTL) for the "All" soil depth are from the *Background Data Analysis Report, Fort Richardson, Alaska* (E&E, 1996). These values given preference because they were developed specifically for Fort Richardson.

[b] In the absence of a background value from E&E (1996), values developed for the 1998 Postwide Ecological Risk Assessment at Fort Richardson (ENSR, 1998b) were used.

[c] No 95% UTL was calculated; therefore, the maximum reported concentration was used for screening purposes.

[d] Essential macronutrients were not retained for further evaluation.

[e] Non-detected analytes were not retained for further evaluation.

Shaded analytes were retained for further evaluation because the maximum soil concentration exceeded the background value.

TABLE 2-11

AVMA—Background Screening for Soil Samples (depths 0 to 1 foot bgs) Utilized in the Evaluation of Birds and Mammals

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analytes	CAS	Units	Number of Samples	Number of Detects	Frequency of Detection	Minimum Nondetect	Maximum Nondetect	Minimum Detect	Maximum Detect	Background 95% UTL [a]	Background from Postwide [b]	Retained?
ALUMINUM	7429-90-5	mg/kg	8	8	100%	--	--	18,000	26,100		19000	Yes
ANTIMONY	7440-36-0	mg/kg	8	8	100%	--	--	0.090	0.59		34.8	No
ARSENIC	7440-38-2	mg/kg	8	5	63%	1.0	1.2	2.1	6.7	9.91		No
BARIUM	7440-39-3	mg/kg	8	8	100%	--	--	56	120	104.69		Yes
BERYLLIUM	7440-41-7	mg/kg	8	8	100%	--	--	0.37	0.54		0.52	Yes
CADMIUM	7440-43-9	mg/kg	8	8	100%	--	--	0.84	1.1	2.2 [c]		No
CALCIUM	7440-70-2	mg/kg	8	8	100%	--	--	4,800	8,000		nutrient	No [e]
CHROMIUM, TOTAL	7440-47-3	mg/kg	8	8	100%	--	--	28	42	43.84 [c]		No
COBALT	7440-48-4	mg/kg	8	8	100%	--	--	11	15		17	No
COPPER	7440-50-8	mg/kg	8	8	100%	--	--	23	30	51.89 [c]		No
IRON	7439-89-6	mg/kg	8	8	100%	--	--	33,000	39,900		nutrient	No [e]
LEAD	7439-92-1	mg/kg	8	8	100%	--	--	4.4	36	21.74		Yes
MAGNESIUM	7439-95-4	mg/kg	8	8	100%	--	--	6,800	13,000		nutrient	No [e]
MANGANESE	7439-96-5	mg/kg	8	8	100%	--	--	510	739		770	No
MERCURY	7439-97-6	mg/kg	8	8	100%	--	--	0.045	0.090	0.6 [c,d]		No
NICKEL	7440-02-0	mg/kg	8	8	100%	--	--	31	62	48.73		Yes
POTASSIUM	7440-09-7	mg/kg	8	8	100%	--	--	740	990		nutrient	No [e]
SELENIUM	7782-49-2	mg/kg	8	7	88%	1.3	1.3	3.6	11	2.5 [c,d]		Yes
SILVER	7440-22-4	mg/kg	8	0	0%	0.29	0.54	--	--	4.2 [c,d]		No [f]
SODIUM	7440-23-5	mg/kg	8	8	100%	--	--	95	310		nutrient	No [e]
THALLIUM	7440-28-0	mg/kg	8	0	0%	0.053	0.31	--	--		0.68	No [f]
VANADIUM	7440-62-2	mg/kg	8	8	100%	--	--	66	87		64	Yes
ZINC	7440-66-6	mg/kg	8	8	100%	--	--	57	73	80.79 [c]		No

Notes:

[a] Background values represented by the 95% Upper Tolerance Limit (UTL) for the "Surface" soil depth (0 to 0.5 foot bgs) are from the *Background Data Analysis Report, Fort Richardson, Alaska* (E&E, 1996). These values given preference because they were developed specifically for Fort Richardson.

[b] In the absence of a background value from E&E (1996), values developed for the 1998 Postwide Ecological Risk Assessment at Fort Richardson (ENSR, 1998b) were used.

[c] No value for the "Surface" soil depth was calculated. The only value reported was for the "All" soil depth; therefore, this value was used for screening purposes.

[d] No 95% UTL was calculated; therefore, the maximum reported concentration was used for screening purposes

[e] Essential macronutrients were not retained for further evaluation.

[f] Non-detected analytes were not retained for further evaluation.

Shaded analytes were retained for further evaluation because the maximum soil concentration exceeded the background value.

TABLE 2-12
Building 35-752—Selection of Chemicals of Potential Ecological Concern for Terrestrial Plants and Invertebrates (depths 0 to ~6 feet bgs)
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Chemical Group	Analyte	CAS	Detected?	Sampled in 2002
Not Retained as COPECs - no detectable concentration in any sample				
DIOXIN/FURANS	1,2,3,7,8,9-HEXACHLORODIBENZOFURAN	72918-21-9		X
METAL	ANTIMONY	7440-36-0		
METAL	BERYLLIUM	7440-41-7		
METAL	SELENIUM	7782-49-2		
METAL	THALLIUM	7440-28-0		
PEST/PCB	ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	319-84-6		
PEST/PCB	ALPHA ENDOSULFAN	959-98-8		
PEST/PCB	ALPHA-CHLORDANE	5103-71-9		
PEST/PCB	BETA ENDOSULFAN	33213-65-9		
PEST/PCB	BHC (HEXACHLOROCYCLOHEXANE) ISOMERS	58-89-9		
PEST/PCB	CHLORDANE	57-74-9		
PEST/PCB	DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	319-86-8		
PEST/PCB	ENDOSULFAN SULFATE	1031-07-8		
PEST/PCB	ENDRIN KETONE	53494-70-5		
PEST/PCB	GAMMA-CHLORDANE	12789-03-6		
PEST/PCB	HEPTACHLOR	76-44-8		
PEST/PCB	HEPTACHLOR EPOXIDE	1024-57-3		
PEST/PCB	METHOXYCHLOR	72-43-5		
PEST/PCB	PCB-1016 (AROCLOR 1016)	12674-11-2		X
PEST/PCB	PCB-1221 (AROCLOR 1221)	11104-28-2		X
PEST/PCB	PCB-1232 (AROCLOR 1232)	11141-16-5		X
PEST/PCB	PCB-1242 (AROCLOR 1242)	53469-21-9		X
PEST/PCB	PCB-1248 (AROCLOR 1248)	12672-29-6		X
PEST/PCB	PCB-1254 (AROCLOR 1254)	11097-69-1		X
PEST/PCB	TOXAPHENE	8001-35-2		
SVOC	2,4 DB	94-75-7		
SVOC	2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	93-76-5		
SVOC	2,4,5-TRICHLOROPHENOL	95-95-4		
SVOC	2,4,6-TRICHLOROPHENOL	88-06-2		
SVOC	2,4-D (DICHLOROPHENOXYACETIC ACID)	94-75-7		
SVOC	2,4-DICHLOROPHENOL	120-83-2		
SVOC	2,4-DIMETHYLPHENOL	105-67-9		
SVOC	2,4-DINITROPHENOL	51-28-5		
SVOC	2,4-DINITROTOLUENE	121-14-2		
SVOC	2,6-DINITROTOLUENE	606-20-2		
SVOC	2-CHLORONAPHTHALENE	91-58-7		
SVOC	2-CHLOROPHENOL	95-57-8		
SVOC	2-METHYLPHENOL (o-CRESOL)	95-48-7		
SVOC	2-NITROANILINE	88-74-4		
SVOC	2-NITROPHENOL	88-75-5		
SVOC	3&4-METHYLPHENOL	MEPH3&4		
SVOC	3,3'-DICHLOROBENZIDINE	91-94-1		
SVOC	3-NITROANILINE	99-09-2		
SVOC	4,6-DINITRO-2-METHYLPHENOL	534-52-1		
SVOC	4-BROMOPHENYL PHENYL ETHER	101-55-3		
SVOC	4-CHLORO-3-METHYLPHENOL	59-50-7		
SVOC	4-CHLOROANILINE	106-47-8		
SVOC	4-CHLOROPHENYL PHENYL ETHER	7005-72-3		
SVOC	4-NITROANILINE	100-01-6		
SVOC	4-NITROPHENOL	100-02-7		
SVOC	ANILINE (PHENYLAMINE, AMINOBENZENE)	62-53-3		
SVOC	BENZOIC ACID	65-85-0		
SVOC	BENZYL ALCOHOL	100-51-6		
SVOC	BENZYL BUTYL PHTHALATE	85-68-7		
SVOC	bis(2-CHLOROETHOXY) METHANE	111-91-1		
SVOC	bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	111-44-4		
SVOC	bis(2-CHLOROISOPROPYL) ETHER	108-60-1		
SVOC	DALAPON	75-99-0		
SVOC	DICAMBA	1918-00-9		
SVOC	DICHLOROPROP	120-36-5		
SVOC	DIETHYL PHTHALATE	84-66-2		
SVOC	DIMETHYL PHTHALATE	131-11-3		

TABLE 2-12
Building 35-752—Selection of Chemicals of Potential Ecological Concern for Terrestrial Plants and Invertebrates (depths 0 to ~6 feet bgs)
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Chemical Group	Analyte	CAS	Detected?	Sampled in 2002
SVOC	DI-n-BUTYL PHTHALATE	84-74-2		
SVOC	DINOSEB	88-85-7		
SVOC	HEXACHLOROBENZENE	118-74-1		
SVOC	HEXACHLOROCYCLOPENTADIENE	77-47-4		
SVOC	HEXACHLOROETHANE	67-72-1		
SVOC	ISOPHORONE	78-59-1		
SVOC	MCPA	94-74-6		
SVOC	MCPP	93-65-2		
SVOC	NITROBENZENE	98-95-3		
SVOC	N-NITROSODIMETHYLAMINE	62-75-9		
SVOC	N-NITROSODI-n-PROPYLAMINE	621-64-7		
SVOC	N-NITROSODIPHENYLAMINE	86-30-6		
SVOC	PENTACHLOROPHENOL	87-86-5		
SVOC	PHENOL	108-95-2		
SVOC	SILVEX (2,4,5-TP)	93-72-1		
TPH	BUNKER FUEL #6D	BF#6D		
TPH	JET FUEL JET A	JPA		
TPH	KEROSENE	8008-20-6		
VOC	1,1,1,2-TETRACHLOROETHANE	630-20-6		
VOC	1,1,2,2-TETRACHLOROETHANE	79-34-5		
VOC	1,1,2-TRICHLOROETHANE	79-00-5		
VOC	1,1-DICHLOROETHANE	75-34-3		
VOC	1,1-DICHLOROETHENE	75-35-4		
VOC	1,1-DICHLOROPROPENE	563-58-6		
VOC	1,2,3-TRICHLOROBENZENE	87-61-6		
VOC	1,2,3-TRICHLOROPROPANE	96-18-4		
VOC	1,2,4-TRICHLOROBENZENE	120-82-1		
VOC	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8		
VOC	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	106-93-4		
VOC	1,2-DICHLOROBENZENE	95-50-1		
VOC	1,2-DICHLOROETHANE	107-06-2		
VOC	1,2-DICHLOROPROPANE	78-87-5		
VOC	1,3-DICHLOROBENZENE	541-73-1		
VOC	1,3-DICHLOROPROPANE	142-28-9		
VOC	2,2-DICHLOROPROPANE	594-20-7		
VOC	2-HEXANONE	591-78-6		
VOC	4-CHLOROTOLUENE	106-43-4		
VOC	BENZENE	71-43-2		
VOC	BROMOBENZENE	108-86-1		
VOC	BROMOCHLOROMETHANE	74-97-5		
VOC	BROMODICHLOROMETHANE	75-27-4		
VOC	BROMOFORM	75-25-2		
VOC	BROMOMETHANE	74-83-9		
VOC	CARBON DISULFIDE	75-15-0		
VOC	CARBON TETRACHLORIDE	56-23-5		
VOC	CHLOROBENZENE	108-90-7		
VOC	CHLOROETHANE	75-00-3		
VOC	CHLOROFORM	67-66-3		
VOC	CHLOROMETHANE	74-87-3		
VOC	cis-1,2-DICHLOROETHYLENE	156-59-2		
VOC	cis-1,3-DICHLOROPROPENE	10061-01-5		
VOC	CYMENE (???Cumene)	99-87-6		
VOC	DIBROMOCHLOROMETHANE	124-48-1		
VOC	DIBROMOMETHANE	74-95-3		
VOC	DICHLORODIFLUOROMETHANE	75-71-8		
VOC	HEXACHLOROBUTADIENE	87-68-3		
VOC	METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108-10-1		
VOC	M-XYLENE (1,3-DIMETHYLBENZENE)	108-38-3		
VOC	n-BUTYLBENZENE	104-51-8		
VOC	SEC-BUTYLBENZENE	135-98-8		
VOC	STYRENE	100-42-5		
VOC	t-BUTYLBENZENE	98-06-6		
VOC	TETRACHLOROETHYLENE(PCE)	127-18-4		

TABLE 2-12
Building 35-752—Selection of Chemicals of Potential Ecological Concern for Terrestrial Plants and Invertebrates (depths 0 to ~6 feet bgs)
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Chemical Group	Analyte	CAS	Detected?	Sampled in 2002
VOC	trans-1,2-DICHLOROETHENE	156-60-5		
VOC	trans-1,3-DICHLOROPROPENE	10061-02-6		
VOC	TRICHLOROFLUOROMETHANE	75-69-4		
VOC	VINYL CHLORIDE	75-01-4		
VOC	XYLENES, o & p	XYLENES1214		
Not Retained as COPECs - detected, but maximum concentration less than background (see Table 2-8)				
METAL	ALUMINUM	7429-90-5	X	
METAL	ARSENIC	7440-38-2	X	
METAL	CADMIUM	7440-43-9	X	
METAL	COBALT	7440-48-4	X	
METAL	COPPER	7440-50-8	X	
METAL	MANGANESE	7439-96-5	X	
METAL	MERCURY	7439-97-6	X	
METAL	NICKEL	7440-02-0	X	
METAL	SILVER	7440-22-4	X	
METAL	VANADIUM	7440-62-2	X	
Not Retained as COPECs - detected, but considered an essential macronutrient (see Table 2-8)				
METAL	CALCIUM	7440-70-2	X	
METAL	IRON	7439-89-6	X	
METAL	MAGNESIUM	7439-95-4	X	
METAL	POTASSIUM	7440-09-7	X	
METAL	SODIUM	7440-23-5	X	
Retained as COPECs - detected and maximum concentration greater than background (see Table 2-8)				
METAL	BARIUM	7440-39-3	X	
METAL	CHROMIUM, TOTAL	7440-47-3	X	
METAL	LEAD	7439-92-1	X	
METAL	ZINC	7440-66-6	X	
Retained as COPECs - detected and organic; therefore, considered to be site-related				
DIOXIN/FURANS	1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	67562-39-4	X	X
DIOXIN/FURANS	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN	35822-46-9	X	X
DIOXIN/FURANS	1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	55673-89-7	X	X
DIOXIN/FURANS	1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	70648-26-9	X	X
DIOXIN/FURANS	1,2,3,4,7,8-HEXACHLORODIBENZO-p-DIOXIN	39227-28-6	X	X
DIOXIN/FURANS	1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	57117-44-9	X	X
DIOXIN/FURANS	1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	57653-85-7	X	X
DIOXIN/FURANS	1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	19408-74-3	X	X
DIOXIN/FURANS	1,2,3,7,8-PENTACHLORODIBENZOFURAN	57117-41-6	X	X
DIOXIN/FURANS	1,2,3,7,8-PENTACHLORODIBENZO-p-DIOXIN	40321-76-4	X	X
DIOXIN/FURANS	2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	60851-34-5	X	X
DIOXIN/FURANS	2,3,4,7,8-PENTACHLORODIBENZOFURAN	57117-31-4	X	X
DIOXIN/FURANS	2,3,7,8-TETRACHLORODIBENZOFURAN	51207-31-9	X	X
DIOXIN/FURANS	2,3,7,8-TETRACHLORODIBENZO-p-DIOXIN	1746-01-6	X	X
DIOXIN/FURANS	HEPTACHLORINATED DIBENZOFURANS, (TOTAL)	38998-75-3	X	X
DIOXIN/FURANS	HEPTACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	37871-00-4	X	X
DIOXIN/FURANS	HEXACHLORINATED DIBENZOFURANS, (TOTAL)	55684-94-1	X	X
DIOXIN/FURANS	HEXACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	19408-74-3	X	X
DIOXIN/FURANS	OCTACHLORODIBENZOFURAN	39001-02-0	X	X
DIOXIN/FURANS	OCTACHLORODIBENZO-p-DIOXIN	3268-87-9	X	X
DIOXIN/FURANS	PENTACHLORINATED DIBENZOFURANS, (TOTAL)	PECDF	X	X
DIOXIN/FURANS	PENTACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	36088-22-9	X	X
DIOXIN/FURANS	TETRACHLORINATED DIBENZOFURANS, (TOTAL)	55722-27-5	X	X
DIOXIN/FURANS	TETRACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	41903-57-5	X	X
DIOXIN/FURANS	Total TCDD-Bird	TOTAL-Bird	X	X
DIOXIN/FURANS	Total TCDD-Mammal	TOTAL-MAM	X	X
PEST/PCB	ALDRIN	309-00-2	X	
PEST/PCB	BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	319-85-7	X	
PEST/PCB	DIELDRIN	60-57-1	X	
PEST/PCB	ENDRIN	72-20-8	X	
PEST/PCB	ENDRIN ALDEHYDE	7421-93-4	X	
PEST/PCB	p,p'-DDD	72-54-8	X	
PEST/PCB	p,p'-DDE	72-55-9	X	
PEST/PCB	p,p'-DDT	50-29-3	X	
PEST/PCB	PCB-1260 (AROCLOR 1260)	11096-82-5	X	X

TABLE 2-12
Building 35-752—Selection of Chemicals of Potential Ecological Concern for Terrestrial Plants and Invertebrates (depths 0 to ~6 feet bgs)
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Chemical Group	Analyte	CAS	Detected?	Sampled in 2002
SVOC	2-METHYLNAPHTHALENE	91-57-6	X	
SVOC	ACENAPHTHENE	83-32-9	X	
SVOC	ACENAPHTHYLENE	208-96-8	X	
SVOC	ANTHRACENE	120-12-7	X	
SVOC	BENZO(a)ANTHRACENE	56-55-3	X	
SVOC	BENZO(a)PYRENE	50-32-8	X	
SVOC	BENZO(b)FLUORANTHENE	205-99-2	X	
SVOC	BENZO(g,h,i)PERYLENE	191-24-2	X	
SVOC	BENZO(k)FLUORANTHENE	207-08-9	X	
SVOC	bis(2-ETHYLHEXYL) PHTHALATE	117-81-7	X	
SVOC	CHRYSENE	218-01-9	X	
SVOC	DIBENZ(a,h)ANTHRACENE	53-70-3	X	
SVOC	DIBENZOFURAN	132-64-9	X	
SVOC	DI-n-OCTYLPHTHALATE	117-84-0	X	
SVOC	FLUORANTHENE	206-44-0	X	
SVOC	FLUORENE	86-73-7	X	
SVOC	INDENO(1,2,3-c,d)PYRENE	193-39-5	X	
SVOC	PHENANTHRENE	85-01-8	X	
SVOC	PYRENE	129-00-0	X	
TPH	DIESEL RANGE ORGANICS	DRO	X	X
TPH	GASOLINE RANGE ORGANICS	GRO	X	X
TPH	TOTAL PETROLEUM HYDROCARBONS	217-59-4	X	
VOC	1,1,1-TRICHLOROETHANE	71-55-6	X	
VOC	1,2,4-TRIMETHYLBENZENE	95-63-6	X	
VOC	1,3,5-TRIMETHYLBENZENE (MESITYLENE)	108-67-8	X	
VOC	1,4-DICHLOROBENZENE	106-46-7	X	
VOC	2-CHLOROTOLUENE	95-49-8	X	
VOC	ACETONE	67-64-1	X	
VOC	ETHYLBENZENE	100-41-4	X	
VOC	METHYL ETHYL KETONE (2-BUTANONE)	78-93-3	X	
VOC	METHYLENE CHLORIDE	75-09-2	X	
VOC	NAPHTHALENE	91-20-3	X	
VOC	n-PROPYLBENZENE	103-65-1	X	
VOC	P-CYMENE (p-ISOPROPYLTOLUENE)	CYMP	X	
VOC	TOLUENE	108-88-3	X	
VOC	TRICHLOROETHYLENE (TCE)	79-01-6	X	
VOC	XYLENES, TOTAL	1330-20-7	X	

TABLE 2-13

Building 35-752—Selection of Chemicals of Potential Ecological Concern for Birds and Mammals (depths 0 to 1 foot bgs

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Chemical Group	Analytes	CAS	Detected?	Sampled in 2002
Not Retained as COPECs - no detectable concentration in any sample				
DIOXIN/FURANS	1,2,3,7,8,9-HEXACHLORODIBENZOFURAN	72918-21-9		X
METAL	ANTIMONY	7440-36-0		
METAL	BERYLLIUM	7440-41-7		
METAL	SELENIUM	7782-49-2		
METAL	THALLIUM	7440-28-0		
PEST/PCB	ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	319-84-6		
PEST/PCB	ALPHA ENDOSULFAN	959-98-8		
PEST/PCB	ALPHA-CHLORDANE	5103-71-9		
PEST/PCB	BETA ENDOSULFAN	33213-65-9		
PEST/PCB	BHC (HEXACHLOROCYCLOHEXANE) ISOMERS	58-89-9		
PEST/PCB	CHLORDANE	57-74-9		
PEST/PCB	DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	319-86-8		
PEST/PCB	ENDOSULFAN SULFATE	1031-07-8		
PEST/PCB	ENDRIN KETONE	53494-70-5		
PEST/PCB	GAMMA-CHLORDANE	12789-03-6		
PEST/PCB	HEPTACHLOR	76-44-8		
PEST/PCB	HEPTACHLOR EPOXIDE	1024-57-3		
PEST/PCB	METHOXYCHLOR	72-43-5		
PEST/PCB	PCB-1016 (AROCLOR 1016)	12674-11-2		X
PEST/PCB	PCB-1221 (AROCLOR 1221)	11104-28-2		X
PEST/PCB	PCB-1232 (AROCLOR 1232)	11141-16-5		X
PEST/PCB	PCB-1242 (AROCLOR 1242)	53469-21-9		X
PEST/PCB	PCB-1248 (AROCLOR 1248)	12672-29-6		X
PEST/PCB	PCB-1254 (AROCLOR 1254)	11097-69-1		X
PEST/PCB	TOXAPHENE	8001-35-2		
SVOC	2,4 DB	94-75-7		
SVOC	2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	93-76-5		
SVOC	2,4,5-TRICHLOROPHENOL	95-95-4		
SVOC	2,4,6-TRICHLOROPHENOL	88-06-2		
SVOC	2,4-D (DICHLOROPHENOXYACETIC ACID)	94-75-7		
SVOC	2,4-DICHLOROPHENOL	120-83-2		
SVOC	2,4-DIMETHYLPHENOL	105-67-9		
SVOC	2,4-DINITROPHENOL	51-28-5		
SVOC	2,4-DINITROTOLUENE	121-14-2		
SVOC	2,6-DINITROTOLUENE	606-20-2		
SVOC	2-CHLORONAPHTHALENE	91-58-7		
SVOC	2-CHLOROPHENOL	95-57-8		
SVOC	2-METHYLPHENOL (o-CRESOL)	95-48-7		
SVOC	2-NITROANILINE	88-74-4		
SVOC	2-NITROPHENOL	88-75-5		
SVOC	3&4-METHYLPHENOL	MEPH3&4		
SVOC	3,3'-DICHLOROBENZIDINE	91-94-1		
SVOC	3-NITROANILINE	99-09-2		
SVOC	4,6-DINITRO-2-METHYLPHENOL	534-52-1		
SVOC	4-BROMOPHENYL PHENYL ETHER	101-55-3		
SVOC	4-CHLORO-3-METHYLPHENOL	59-50-7		
SVOC	4-CHLOROANILINE	106-47-8		
SVOC	4-CHLOROPHENYL PHENYL ETHER	7005-72-3		
SVOC	4-NITROANILINE	100-01-6		
SVOC	4-NITROPHENOL	100-02-7		
SVOC	ANILINE (PHENYLAMINE, AMINOBENZENE)	62-53-3		
SVOC	BENZOIC ACID	65-85-0		
SVOC	BENZYL ALCOHOL	100-51-6		
SVOC	BENZYL BUTYL PHTHALATE	85-68-7		
SVOC	bis(2-CHLOROETHOXY) METHANE	111-91-1		
SVOC	bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	111-44-4		
SVOC	bis(2-CHLOROISOPROPYL) ETHER	108-60-1		
SVOC	DALAPON	75-99-0		

TABLE 2-13

Building 35-752—Selection of Chemicals of Potential Ecological Concern for Birds and Mammals (depths 0 to 1 foot bgs

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Chemical Group	Analytes	CAS	Detected?	Sampled in 2002
SVOC	DICAMBA	1918-00-9		
SVOC	DICHLOROPROP	120-36-5		
SVOC	DIETHYL PHTHALATE	84-66-2		
SVOC	DIMETHYL PHTHALATE	131-11-3		
SVOC	DI-n-BUTYL PHTHALATE	84-74-2		
SVOC	DI-n-OCTYLPHTHALATE	117-84-0		
SVOC	DINOSEB	88-85-7		
SVOC	HEXACHLOROBENZENE	118-74-1		
SVOC	HEXACHLOROCYCLOPENTADIENE	77-47-4		
SVOC	HEXACHLOROETHANE	67-72-1		
SVOC	ISOPHORONE	78-59-1		
SVOC	MCPA	94-74-6		
SVOC	MCPP	93-65-2		
SVOC	NITROBENZENE	98-95-3		
SVOC	N-NITROSODIMETHYLAMINE	62-75-9		
SVOC	N-NITROSODI-n-PROPYLAMINE	621-64-7		
SVOC	N-NITROSODIPHENYLAMINE	86-30-6		
SVOC	PENTACHLOROPHENOL	87-86-5		
SVOC	PHENOL	108-95-2		
SVOC	SILVEX (2,4,5-TP)	93-72-1		
TPH	GASOLINE RANGE ORGANICS	GRO		
VOC	1,1,1,2-TETRACHLOROETHANE	630-20-6		
VOC	1,1,2,2-TETRACHLOROETHANE	79-34-5		
VOC	1,1,2-TRICHLOROETHANE	79-00-5		
VOC	1,1-DICHLOROETHANE	75-34-3		
VOC	1,1-DICHLOROETHENE	75-35-4		
VOC	1,1-DICHLOROPROPENE	563-58-6		
VOC	1,2,3-TRICHLOROBENZENE	87-61-6		
VOC	1,2,3-TRICHLOROPROPANE	96-18-4		
VOC	1,2,4-TRICHLOROBENZENE	120-82-1		
VOC	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8		
VOC	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	106-93-4		
VOC	1,2-DICHLOROBENZENE	95-50-1		
VOC	1,2-DICHLOROETHANE	107-06-2		
VOC	1,2-DICHLOROPROPANE	78-87-5		
VOC	1,3-DICHLOROBENZENE	541-73-1		
VOC	1,3-DICHLOROPROPANE	142-28-9		
VOC	2,2-DICHLOROPROPANE	594-20-7		
VOC	2-HEXANONE	591-78-6		
VOC	4-CHLOROTOLUENE	106-43-4		
VOC	BENZENE	71-43-2		
VOC	BROMOBENZENE	108-86-1		
VOC	BROMOCHLOROMETHANE	74-97-5		
VOC	BROMODICHLOROMETHANE	75-27-4		
VOC	BROMOFORM	75-25-2		
VOC	BROMOMETHANE	74-83-9		
VOC	CARBON DISULFIDE	75-15-0		
VOC	CARBON TETRACHLORIDE	56-23-5		
VOC	CHLOROBENZENE	108-90-7		
VOC	CHLOROETHANE	75-00-3		
VOC	CHLOROFORM	67-66-3		
VOC	CHLOROMETHANE	74-87-3		
VOC	cis-1,2-DICHLOROETHYLENE	156-59-2		
VOC	cis-1,3-DICHLOROPROPENE	10061-01-5		
VOC	CYMENE	99-87-6		
VOC	DIBROMOCHLOROMETHANE	124-48-1		
VOC	DIBROMOMETHANE	74-95-3		
VOC	DICHLORODIFLUOROMETHANE	75-71-8		
VOC	ETHYLBENZENE	100-41-4		

TABLE 2-13

Building 35-752—Selection of Chemicals of Potential Ecological Concern for Birds and Mammals (depths 0 to 1 foot bgs

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Chemical Group	Analytes	CAS	Detected?	Sampled in 2002
VOC	HEXACHLOROBUTADIENE	87-68-3		
VOC	METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108-10-1		
VOC	METHYLENE CHLORIDE	75-09-2		
VOC	n-BUTYLBENZENE	104-51-8		
VOC	SEC-BUTYLBENZENE	135-98-8		
VOC	STYRENE	100-42-5		
VOC	t-BUTYLBENZENE	98-06-6		
VOC	TETRACHLOROETHYLENE(PCE)	127-18-4		
VOC	trans-1,2-DICHLOROETHENE	156-60-5		
VOC	trans-1,3-DICHLOROPROPENE	10061-02-6		
VOC	TRICHLOROETHYLENE (TCE)	79-01-6		
VOC	TRICHLOROFLUOROMETHANE	75-69-4		
VOC	VINYL CHLORIDE	75-01-4		
Not Retained as COPECs - detected, but maximum concentration less than background (see Table 2-9)				
METAL	ALUMINUM	7429-90-5	X	
METAL	ARSENIC	7440-38-2	X	
METAL	CADMIUM	7440-43-9	X	
METAL	COBALT	7440-48-4	X	
METAL	COPPER	7440-50-8	X	
METAL	MANGANESE	7439-96-5	X	
METAL	MERCURY	7439-97-6	X	
METAL	SILVER	7440-22-4	X	
METAL	VANADIUM	7440-62-2	X	
Not Retained as COPECs - detected, but considered an essential macronutrient (see Table 2-9)				
METAL	CALCIUM	7440-70-2	X	
METAL	IRON	7439-89-6	X	
METAL	MAGNESIUM	7439-95-4	X	
METAL	POTASSIUM	7440-09-7	X	
METAL	SODIUM	7440-23-5	X	
Retained as COPECs - detected and maximum concentration greater than background (see Table 2-9)				
METAL	BARIUM	7440-39-3	X	
METAL	CHROMIUM, TOTAL	7440-47-3	X	
METAL	LEAD	7439-92-1	X	
METAL	NICKEL	7440-02-0	X	
METAL	ZINC	7440-66-6	X	
Retained as COPECs - detected and organic; therefore, considered to be site-related				
DIOXIN/FURANS	1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	67562-39-4	X	X
DIOXIN/FURANS	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN	35822-46-9	X	X
DIOXIN/FURANS	1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	55673-89-7	X	X
DIOXIN/FURANS	1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	70648-26-9	X	X
DIOXIN/FURANS	1,2,3,4,7,8-HEXACHLORODIBENZO-p-DIOXIN	39227-28-6	X	X
DIOXIN/FURANS	1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	57117-44-9	X	X
DIOXIN/FURANS	1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	57653-85-7	X	X
DIOXIN/FURANS	1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	19408-74-3	X	X
DIOXIN/FURANS	1,2,3,7,8-PENTACHLORODIBENZOFURAN	57117-41-6	X	X
DIOXIN/FURANS	1,2,3,7,8-PENTACHLORODIBENZO-p-DIOXIN	40321-76-4	X	X
DIOXIN/FURANS	2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	60851-34-5	X	X
DIOXIN/FURANS	2,3,4,7,8-PENTACHLORODIBENZOFURAN	57117-31-4	X	X
DIOXIN/FURANS	2,3,7,8-TETRACHLORODIBENZOFURAN	51207-31-9	X	X
DIOXIN/FURANS	2,3,7,8-TETRACHLORODIBENZO-p-DIOXIN	1746-01-6	X	X
DIOXIN/FURANS	HEPTACHLORINATED DIBENZOFURANS, (TOTAL)	38998-75-3	X	X
DIOXIN/FURANS	HEPTACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	37871-00-4	X	X
DIOXIN/FURANS	HEXACHLORINATED DIBENZOFURANS, (TOTAL)	55684-94-1	X	X
DIOXIN/FURANS	HEXACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	19408-74-3	X	X
DIOXIN/FURANS	OCTACHLORODIBENZOFURAN	39001-02-0	X	X
DIOXIN/FURANS	OCTACHLORODIBENZO-p-DIOXIN	3268-87-9	X	X
DIOXIN/FURANS	PENTACHLORINATED DIBENZOFURANS, (TOTAL)	PECDF	X	X
DIOXIN/FURANS	PENTACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	36088-22-9	X	X
DIOXIN/FURANS	TETRACHLORINATED DIBENZOFURANS, (TOTAL)	55722-27-5	X	X

TABLE 2-13

Building 35-752—Selection of Chemicals of Potential Ecological Concern for Birds and Mammals (depths 0 to 1 foot bgs

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Chemical Group	Analytes	CAS	Detected?	Sampled in 2002
DIOXIN/FURANS	TETRACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	41903-57-5	X	X
DIOXIN/FURANS	Total TCDD-Bird	TOTAL-Bird	X	X
DIOXIN/FURANS	Total TCDD-Mammal	TOTAL-MAM	X	X
PEST/PCB	ALDRIN	309-00-2	X	
PEST/PCB	BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	319-85-7	X	
PEST/PCB	DIELDRIN	60-57-1	X	
PEST/PCB	ENDRIN	72-20-8	X	
PEST/PCB	ENDRIN ALDEHYDE	7421-93-4	X	
PEST/PCB	p,p'-DDD	72-54-8	X	
PEST/PCB	p,p'-DDE	72-55-9	X	
PEST/PCB	p,p'-DDT	50-29-3	X	
PEST/PCB	PCB-1260 (AROCLOR 1260)	11096-82-5	X	X
SVOC	2-METHYLNAPHTHALENE	91-57-6	X	
SVOC	ACENAPHTHENE	83-32-9	X	
SVOC	ACENAPHTHYLENE	208-96-8	X	
SVOC	ANTHRACENE	120-12-7	X	
SVOC	BENZO(a)ANTHRACENE	56-55-3	X	
SVOC	BENZO(a)PYRENE	50-32-8	X	
SVOC	BENZO(b)FLUORANTHENE	205-99-2	X	
SVOC	BENZO(g,h,i)PERYLENE	191-24-2	X	
SVOC	BENZO(k)FLUORANTHENE	207-08-9	X	
SVOC	bis(2-ETHYLHEXYL) PHTHALATE	117-81-7	X	
SVOC	CHRYSENE	218-01-9	X	
SVOC	DIBENZ(a,h)ANTHRACENE	53-70-3	X	
SVOC	DIBENZOFURAN	132-64-9	X	
SVOC	FLUORANTHENE	206-44-0	X	
SVOC	FLUORENE	86-73-7	X	
SVOC	INDENO(1,2,3-c,d)PYRENE	193-39-5	X	
SVOC	PHENANTHRENE	85-01-8	X	
SVOC	PYRENE	129-00-0	X	
TPH	DIESEL RANGE ORGANICS	DRO	X	X
TPH	TOTAL PETROLEUM HYDROCARBONS	217-59-4	X	
VOC	1,1,1-TRICHLOROETHANE	71-55-6	X	
VOC	1,2,4-TRIMETHYLBENZENE	95-63-6	X	
VOC	1,3,5-TRIMETHYLBENZENE (MESITYLENE)	108-67-8	X	
VOC	1,4-DICHLOROBENZENE	106-46-7	X	
VOC	2-CHLOROTOLUENE	95-49-8	X	
VOC	ACETONE	67-64-1	X	
VOC	METHYL ETHYL KETONE (2-BUTANONE)	78-93-3	X	
VOC	NAPHTHALENE	91-20-3	X	
VOC	n-PROPYLBENZENE	103-65-1	X	
VOC	P-CYMENE (p-ISOPROPYLTOLUENE)	CYMP	X	
VOC	TOLUENE	108-88-3	X	
VOC	XYLENES, TOTAL	1330-20-7	X	

TABLE 2-14
AVMA—Selection of Chemicals of Potential Ecological Concern for Terrestrial Plants and Invertebrates (depths 0 to ~6 feet bgs)
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Chemical Group	Analytes	CAS	Detected?	Sampled in 2002
Not Retained as COPECs - no detectable concentration in any sample				
METAL	SILVER	7440-22-4		X
PEST/PCB	ALDRIN	309-00-2		X
PEST/PCB	ALPHA ENDOSULFAN	959-98-8		X
PEST/PCB	BETA ENDOSULFAN	33213-65-9		X
PEST/PCB	CHLORDANE	57-74-9		X
PEST/PCB	GAMMA BHC (LINDANE)	58-89-9		X
PEST/PCB	GAMMA-CHLORDANE	12789-03-6		X
PEST/PCB	PCB-1016 (AROCLOR 1016)	12674-11-2		X
PEST/PCB	PCB-1221 (AROCLOR 1221)	11104-28-2		X
PEST/PCB	PCB-1232 (AROCLOR 1232)	11141-16-5		X
PEST/PCB	PCB-1242 (AROCLOR 1242)	53469-21-9		X
PEST/PCB	PCB-1248 (AROCLOR 1248)	12672-29-6		X
PEST/PCB	PCB-1254 (AROCLOR 1254)	11097-69-1		X
PEST/PCB	PCB-1260 (AROCLOR 1260)	11096-82-5		X
PEST/PCB	TOXAPHENE	8001-35-2		X
SVOC	2,4,5-TRICHLOROPHENOL	95-95-4		X
SVOC	2,4,6-TRICHLOROPHENOL	88-06-2		X
SVOC	2,4-DICHLOROPHENOL	120-83-2		X
SVOC	2,4-DINITROPHENOL	51-28-5		X
SVOC	2,4-DINITROTOLUENE	121-14-2		X
SVOC	2,6-DINITROTOLUENE	606-20-2		X
SVOC	2-CHLORONAPHTHALENE	91-58-7		X
SVOC	2-CHLOROPHENOL	95-57-8		X
SVOC	2-NITROANILINE	88-74-4		X
SVOC	2-NITROPHENOL	88-75-5		X
SVOC	3&4-METHYLPHENOL	MEPH3&4		X
SVOC	3,3'-DICHLOROBENZIDINE	91-94-1		X
SVOC	3-NITROANILINE	99-09-2		X
SVOC	4,6-DINITRO-2-METHYLPHENOL	534-52-1		X
SVOC	4-BROMOPHENYL PHENYL ETHER	101-55-3		X
SVOC	4-CHLOROANILINE	106-47-8		X
SVOC	4-CHLOROPHENYL PHENYL ETHER	7005-72-3		X
SVOC	4-NITROANILINE	100-01-6		X
SVOC	4-NITROPHENOL	100-02-7		X
SVOC	BENZIDINE	92-87-5		X
SVOC	BENZOIC ACID	65-85-0		X
SVOC	BENZYL ALCOHOL	100-51-6		X
SVOC	BENZYL BUTYL PHTHALATE	85-68-7		X
SVOC	bis(2-CHLOROETHOXY) METHANE	111-91-1		X
SVOC	bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	111-44-4		X
SVOC	bis(2-CHLOROISOPROPYL) ETHER	108-60-1		X
SVOC	DIETHYL PHTHALATE	84-66-2		X
SVOC	DIMETHYL PHTHALATE	131-11-3		X
SVOC	DIPHENYLAMINE	122-39-4		X
SVOC	HEXACHLOROBENZENE	118-74-1		X
SVOC	HEXACHLOROCYCLOPENTADIENE	77-47-4		X
SVOC	HEXACHLOROETHANE	67-72-1		X
SVOC	ISOPHORONE	78-59-1		X
SVOC	N-NITROSODI-n-PROPYLAMINE	621-64-7		X
SVOC	N-NITROSODIPHENYLAMINE	86-30-6		X
SVOC	NITROBENZENE	98-95-3		X
SVOC	PENTACHLOROPHENOL	87-86-5		X
VOC	1,1,1,2-TETRACHLOROETHANE	630-20-6		X
VOC	1,1,1-TRICHLOROETHANE	71-55-6		X
VOC	1,1,2,2-TETRACHLOROETHANE	79-34-5		X
VOC	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1		X
VOC	1,1,2-TRICHLOROETHANE	79-00-5		X
VOC	1,1-DICHLOROETHANE	75-34-3		X
VOC	1,1-DICHLOROETHENE	75-35-4		X
VOC	1,1-DICHLOROPROPENE	563-58-6		X
VOC	1,2,3-TRICHLOROPROPANE	96-18-4		X
VOC	1,2,4-TRICHLOROBENZENE	120-82-1		X
VOC	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8		X
VOC	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	106-93-4		X

TABLE 2-14
AVMA—Selection of Chemicals of Potential Ecological Concern for Terrestrial Plants and Invertebrates (depths 0 to ~6 feet bgs)
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Chemical Group	Analytes	CAS	Detected?	Sampled in 2002
VOC	1,2-DICHLOROBENZENE	95-50-1		X
VOC	1,2-DICHLOROETHANE	107-06-2		X
VOC	1,2-DICHLOROPROPANE	78-87-5		X
VOC	1,3-DICHLOROBENZENE	541-73-1		X
VOC	1,3-DICHLOROPROPANE	142-28-9		X
VOC	1,4-DICHLOROBENZENE	106-46-7		X
VOC	2,2-DICHLOROPROPANE	594-20-7		X
VOC	2-CHLOROETHYL VINYL ETHER	110-75-8		X
VOC	2-CHLOROTOLUENE	95-49-8		X
VOC	2-HEXANONE	591-78-6		X
VOC	4-CHLOROTOLUENE	106-43-4		X
VOC	ACRYLONITRILE	107-13-1		X
VOC	BROMOBENZENE	108-86-1		X
VOC	BROMOCHLOROMETHANE	74-97-5		X
VOC	BROMODICHLOROMETHANE	75-27-4		X
VOC	BROMOFORM	75-25-2		X
VOC	BROMOMETHANE	74-83-9		X
VOC	CARBON DISULFIDE	75-15-0		X
VOC	CARBON TETRACHLORIDE	56-23-5		X
VOC	CHLOROBENZENE	108-90-7		X
VOC	CHLOROETHANE	75-00-3		X
VOC	CHLOROFORM	67-66-3		X
VOC	CHLOROMETHANE	74-87-3		X
VOC	cis-1,2-DICHLOROETHYLENE	156-59-2		X
VOC	cis-1,3-DICHLOROPROPENE	10061-01-5		X
VOC	DIBROMOCHLOROMETHANE	124-48-1		X
VOC	DIBROMOMETHANE	74-95-3		X
VOC	DICHLORODIFLUOROMETHANE	75-71-8		X
VOC	METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108-10-1		X
VOC	n-PROPYLBENZENE	103-65-1		X
VOC	SEC-BUTYLBENZENE	135-98-8		X
VOC	t-BUTYLBENZENE	98-06-6		X
VOC	trans-1,2-DICHLOROETHENE	156-60-5		X
VOC	trans-1,3-DICHLOROPROPENE	10061-02-6		X
VOC	trans-1,4-DICHLORO-2-BUTENE	110-57-6		X
VOC	TRICHLOROFLUOROMETHANE	75-69-4		X
VOC	VINYL ACETATE	108-05-4		X
VOC	VINYL CHLORIDE	75-01-4		X
VOC	XYLENES, TOTAL	1330-20-7		X
Not Retained as COPECs - detected, but maximum concentration less than background (see Table 2-10)				
METAL	ANTIMONY	7440-36-0	X	X
METAL	CADMIUM	7440-43-9	X	X
METAL	COBALT	7440-48-4	X	X
METAL	COPPER	7440-50-8	X	X
METAL	MERCURY	7439-97-6	X	X
METAL	THALLIUM	7440-28-0	X	X
Not Retained as COPECs - detected, but considered an essential macronutrient (see Table 2-10)				
METAL	CALCIUM	7440-70-2	X	X
METAL	IRON	7439-89-6	X	X
METAL	MAGNESIUM	7439-95-4	X	X
METAL	POTASSIUM	2023695	X	X
METAL	SODIUM	7440-23-5	X	X
Retained as COPECs - detected and maximum concentration greater than background (see Table 2-10)				
METAL	ALUMINUM	7429-90-5	X	X
METAL	ARSENIC	7440-38-2	X	X
METAL	BARIUM	7440-39-3	X	X
METAL	BERYLLIUM	7440-41-7	X	X
METAL	CHROMIUM, TOTAL	7440-47-3	X	X
METAL	LEAD	7439-92-1	X	X
METAL	MANGANESE	7439-96-5	X	X
METAL	NICKEL	7440-02-0	X	X
METAL	SELENIUM	7782-49-2	X	X
METAL	VANADIUM	7440-62-2	X	X
METAL	ZINC	7440-66-6	X	X

TABLE 2-14
AVMA—Selection of Chemicals of Potential Ecological Concern for Terrestrial Plants and Invertebrates (depths 0 to ~6 feet bgs)
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Chemical Group	Analytes	CAS	Detected?	Sampled in 2002
Retained as COPECs - detected and organic; therefore, considered to be site-related				
PEST/PCB	ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	319-84-6	X	X
PEST/PCB	ALPHA-CHLORDANE	5103-71-9	X	X
PEST/PCB	BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	319-85-7	X	X
PEST/PCB	DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	319-86-8	X	X
PEST/PCB	DIELDRIN	60-57-1	X	X
PEST/PCB	ENDOSULFAN SULFATE	1031-07-8	X	X
PEST/PCB	ENDRIN	72-20-8	X	X
PEST/PCB	ENDRIN ALDEHYDE	7421-93-4	X	X
PEST/PCB	ENDRIN KETONE	53494-70-5	X	X
PEST/PCB	HEPTACHLOR	76-44-8	X	X
PEST/PCB	HEPTACHLOR EPOXIDE	1024-57-3	X	X
PEST/PCB	METHOXYCHLOR	72-43-5	X	X
PEST/PCB	p,p'-DDD	72-54-8	X	X
PEST/PCB	p,p'-DDE	72-55-9	X	X
PEST/PCB	p,p'-DDT	50-29-3	X	X
SVOC	2,4-DIMETHYLPHENOL	105-67-9	X	X
SVOC	2-METHYLNAPHTHALENE	91-57-6	X	X
SVOC	2-METHYLPHENOL (o-CRESOL)	95-48-7	X	X
SVOC	4-CHLORO-3-METHYLPHENOL	59-50-7	X	X
SVOC	ACENAPHTHENE	83-32-9	X	X
SVOC	ACENAPHTHYLENE	208-96-8	X	X
SVOC	ANTHRACENE	120-12-7	X	X
SVOC	BENZO(a)ANTHRACENE	56-55-3	X	X
SVOC	BENZO(a)PYRENE	50-32-8	X	X
SVOC	BENZO(b)FLUORANTHENE	205-99-2	X	X
SVOC	BENZO(g,h,i)PERYLENE	191-24-2	X	X
SVOC	BENZO(k)FLUORANTHENE	207-08-9	X	X
SVOC	bis(2-ETHYLHEXYL) PHTHALATE	117-81-7	X	X
SVOC	CHRYSENE	218-01-9	X	X
SVOC	DI-n-BUTYL PHTHALATE	84-74-2	X	X
SVOC	DI-n-OCTYLPHTHALATE	117-84-0	X	X
SVOC	DIBENZ(a,h)ANTHRACENE	53-70-3	X	X
SVOC	DIBENZOFURAN	132-64-9	X	X
SVOC	FLUORANTHENE	206-44-0	X	X
SVOC	FLUORENE	86-73-7	X	X
SVOC	INDENO(1,2,3-c,d)PYRENE	193-39-5	X	X
SVOC	PHENANTHRENE	85-01-8	X	X
SVOC	PHENOL	108-95-2	X	X
SVOC	PYRENE	129-00-0	X	X
TPH	DIESEL RANGE ORGANICS	DRO	X	X
TPH	GASOLINE RANGE ORGANICS	GRO	X	X
TPH	RESIDUAL RANGE ORGANICS	RRO	X	
VOC	1,2,3-TRICHLOROBENZENE	87-61-6	X	X
VOC	1,2,4-TRIMETHYLBENZENE	95-63-6	X	X
VOC	1,3,5-TRIMETHYLBENZENE (MESITYLENE)	108-67-8	X	X
VOC	ACETONE	67-64-1	X	X
VOC	BENZENE	71-43-2	X	X
VOC	ETHYLBENZENE	100-41-4	X	X
VOC	HEXACHLOROBUTADIENE	87-68-3	X	X
VOC	IODOMETHANE (METHYL IODIDE)	74-88-4	X	X
VOC	ISOPROPYLBENZENE (CUMENE)	98-82-8	X	X
VOC	METHYL ETHYL KETONE (2-BUTANONE)	78-93-3	X	X
VOC	METHYLENE CHLORIDE	75-09-2	X	X
VOC	n-BUTYLBENZENE	104-51-8	X	X
VOC	NAPHTHALENE	91-20-3	X	X
VOC	O-XYLENE (1,2-DIMETHYLBENZENE)	95-47-6	X	X
VOC	P-CYMENE (p-ISOPROPYLTOLUENE)	CYMP	X	X
VOC	STYRENE	100-42-5	X	X
VOC	tert-BUTYL METHYL ETHER	1634-04-4	X	X
VOC	TETRACHLOROETHYLENE(PCE)	127-18-4	X	X
VOC	TOLUENE	108-88-3	X	X
VOC	TRICHLOROETHYLENE (TCE)	79-01-6	X	X
VOC	XYLENES, m & p	XYLENES1314	X	X

TABLE 2-15
AVMA—Selection of Chemicals of Potential Ecological Concern for Birds and Mammals (depths 0 to 1 foot bgs)
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Chemical Group	Analytes	CAS	Detected?	Sampled in 2002
Not Retained as COPECs - no detectable concentration in any sample				
METAL	SILVER	7440-22-4		X
METAL	THALLIUM	7440-28-0		X
PEST/PCB	ALDRIN	309-00-2		X
PEST/PCB	ALPHA ENDOSULFAN	959-98-8		X
PEST/PCB	BETA ENDOSULFAN	33213-65-9		X
PEST/PCB	CHLORDANE	57-74-9		X
PEST/PCB	GAMMA BHC (LINDANE)	58-89-9		X
PEST/PCB	GAMMA-CHLORDANE	12789-03-6		X
PEST/PCB	PCB-1016 (AROCLOR 1016)	12674-11-2		X
PEST/PCB	PCB-1221 (AROCLOR 1221)	11104-28-2		X
PEST/PCB	PCB-1232 (AROCLOR 1232)	11141-16-5		X
PEST/PCB	PCB-1242 (AROCLOR 1242)	53469-21-9		X
PEST/PCB	PCB-1248 (AROCLOR 1248)	12672-29-6		X
PEST/PCB	PCB-1254 (AROCLOR 1254)	11097-69-1		X
PEST/PCB	PCB-1260 (AROCLOR 1260)	11096-82-5		X
PEST/PCB	TOXAPHENE	8001-35-2		X
SVOC	2,4,5-TRICHLOROPHENOL	95-95-4		X
SVOC	2,4,6-TRICHLOROPHENOL	88-06-2		X
SVOC	2,4-DICHLOROPHENOL	120-83-2		X
SVOC	2,4-DIMETHYLPHENOL	105-67-9		X
SVOC	2,4-DINITROPHENOL	51-28-5		X
SVOC	2,4-DINITROTOLUENE	121-14-2		X
SVOC	2,6-DINITROTOLUENE	606-20-2		X
SVOC	2-CHLORONAPHTHALENE	91-58-7		X
SVOC	2-CHLOROPHENOL	95-57-8		X
SVOC	2-METHYLPHENOL (o-CRESOL)	95-48-7		X
SVOC	2-NITROANILINE	88-74-4		X
SVOC	2-NITROPHENOL	88-75-5		X
SVOC	3&4-METHYLPHENOL	MEPH3&4		X
SVOC	3,3'-DICHLOROBENZIDINE	91-94-1		X
SVOC	3-NITROANILINE	99-09-2		X
SVOC	4,6-DINITRO-2-METHYLPHENOL	534-52-1		X
SVOC	4-BROMOPHENYL PHENYL ETHER	101-55-3		X
SVOC	4-CHLORO-3-METHYLPHENOL	59-50-7		X
SVOC	4-CHLOROANILINE	106-47-8		X
SVOC	4-CHLOROPHENYL PHENYL ETHER	7005-72-3		X
SVOC	4-NITROANILINE	100-01-6		X
SVOC	4-NITROPHENOL	100-02-7		X
SVOC	ACENAPHTHYLENE	208-96-8		X
SVOC	BENZIDINE	92-87-5		X
SVOC	BENZOIC ACID	65-85-0		X
SVOC	BENZYL ALCOHOL	100-51-6		X
SVOC	BENZYL BUTYL PHTHALATE	85-68-7		X
SVOC	bis(2-CHLOROETHOXY) METHANE	111-91-1		X
SVOC	bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	111-44-4		X
SVOC	bis(2-CHLOROISOPROPYL) ETHER	108-60-1		X
SVOC	DIETHYL PHTHALATE	84-66-2		X
SVOC	DIMETHYL PHTHALATE	131-11-3		X
SVOC	DIPHENYLAMINE	122-39-4		X
SVOC	HEXACHLOROBENZENE	118-74-1		X
SVOC	HEXACHLOROCYCLOPENTADIENE	77-47-4		X
SVOC	HEXACHLOROETHANE	67-72-1		X
SVOC	ISOPHORONE	78-59-1		X
SVOC	N-NITROSODI-n-PROPYLAMINE	621-64-7		X
SVOC	N-NITROSODIPHENYLAMINE	86-30-6		X
SVOC	NITROBENZENE	98-95-3		X
SVOC	PENTACHLOROPHENOL	87-86-5		X
SVOC	PHENOL	108-95-2		X

TABLE 2-15
AVMA—Selection of Chemicals of Potential Ecological Concern for Birds and Mammals (depths 0 to 1 foot bgs)
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Chemical Group	Analytes	CAS	Detected?	Sampled in 2002
VOC	1,1,1,2-TETRACHLOROETHANE	630-20-6		X
VOC	1,1,1-TRICHLOROETHANE	71-55-6		X
VOC	1,1,2,2-TETRACHLOROETHANE	79-34-5		X
VOC	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1		X
VOC	1,1,2-TRICHLOROETHANE	79-00-5		X
VOC	1,1-DICHLOROETHANE	75-34-3		X
VOC	1,1-DICHLOROETHENE	75-35-4		X
VOC	1,1-DICHLOROPROPENE	563-58-6		X
VOC	1,2,3-TRICHLOROBENZENE	87-61-6		X
VOC	1,2,3-TRICHLOROPROPANE	96-18-4		X
VOC	1,2,4-TRICHLOROBENZENE	120-82-1		X
VOC	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8		X
VOC	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	106-93-4		X
VOC	1,2-DICHLOROBENZENE	95-50-1		X
VOC	1,2-DICHLOROETHANE	107-06-2		X
VOC	1,2-DICHLOROPROPANE	78-87-5		X
VOC	1,3-DICHLOROBENZENE	541-73-1		X
VOC	1,3-DICHLOROPROPANE	142-28-9		X
VOC	1,4-DICHLOROBENZENE	106-46-7		X
VOC	2,2-DICHLOROPROPANE	594-20-7		X
VOC	2-CHLOROETHYL VINYL ETHER	110-75-8		X
VOC	2-CHLOROTOLUENE	95-49-8		X
VOC	2-HEXANONE	591-78-6		X
VOC	4-CHLOROTOLUENE	106-43-4		X
VOC	ACRYLONITRILE	107-13-1		X
VOC	BENZENE	71-43-2		X
VOC	BROMOBENZENE	108-86-1		X
VOC	BROMOCHLOROMETHANE	74-97-5		X
VOC	BROMODICHLOROMETHANE	75-27-4		X
VOC	BROMOFORM	75-25-2		X
VOC	BROMOMETHANE	74-83-9		X
VOC	CARBON DISULFIDE	75-15-0		X
VOC	CARBON TETRACHLORIDE	56-23-5		X
VOC	CHLOROBENZENE	108-90-7		X
VOC	CHLOROETHANE	75-00-3		X
VOC	CHLOROFORM	67-66-3		X
VOC	CHLOROMETHANE	74-87-3		X
VOC	cis-1,2-DICHLOROETHYLENE	156-59-2		X
VOC	cis-1,3-DICHLOROPROPENE	10061-01-5		X
VOC	DIBROMOCHLOROMETHANE	124-48-1		X
VOC	DIBROMOMETHANE	74-95-3		X
VOC	DICHLORODIFLUOROMETHANE	75-71-8		X
VOC	IODOMETHANE (METHYL IODIDE)	74-88-4		X
VOC	METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108-10-1		X
VOC	n-BUTYLBENZENE	104-51-8		X
VOC	n-PROPYLBENZENE	103-65-1		X
VOC	SEC-BUTYLBENZENE	135-98-8		X
VOC	STYRENE	100-42-5		X
VOC	t-BUTYLBENZENE	98-06-6		X
VOC	tert-BUTYL METHYL ETHER	1634-04-4		X
VOC	TETRACHLOROETHYLENE(PCE)	127-18-4		X
VOC	trans-1,2-DICHLOROETHENE	156-60-5		X
VOC	trans-1,3-DICHLOROPROPENE	10061-02-6		X
VOC	trans-1,4-DICHLORO-2-BUTENE	110-57-6		X
VOC	TRICHLOROETHYLENE (TCE)	79-01-6		X
VOC	TRICHLOROFLUOROMETHANE	75-69-4		X
VOC	VINYL ACETATE	108-05-4		X
VOC	VINYL CHLORIDE	75-01-4		X

TABLE 2-15
AVMA—Selection of Chemicals of Potential Ecological Concern for Birds and Mammals (depths 0 to 1 foot bgs)
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Chemical Group	Analytes	CAS	Detected?	Sampled in 2002
Not Retained as COPECs - detected, but maximum concentration less than background (see Table 2-11)				
METAL	ANTIMONY	7440-36-0	X	X
METAL	ARSENIC	7440-38-2	X	X
METAL	CADMIUM	7440-43-9	X	X
METAL	CHROMIUM, TOTAL	7440-47-3	X	X
METAL	COBALT	7440-48-4	X	X
METAL	COPPER	7440-50-8	X	X
METAL	MANGANESE	7439-96-5	X	X
METAL	MERCURY	7439-97-6	X	X
METAL	ZINC	7440-66-6	X	X
Not Retained as COPECs - detected, but considered an essential macronutrient (see Table 2-11)				
METAL	CALCIUM	7440-70-2	X	X
METAL	IRON	7439-89-6	X	X
METAL	MAGNESIUM	7439-95-4	X	X
METAL	POTASSIUM	7440-09-7	X	X
METAL	SODIUM	7440-23-5	X	X
Retained as COPECs - detected and maximum concentration greater than background (see Table 2-11)				
METAL	ALUMINUM	7429-90-5	X	X
METAL	BARIUM	7440-39-3	X	X
METAL	BERYLLIUM	7440-41-7	X	X
METAL	LEAD	7439-92-1	X	X
METAL	NICKEL	7440-02-0	X	X
METAL	SELENIUM	7782-49-2	X	X
METAL	VANADIUM	7440-62-2	X	X
Retained as COPECs - detected and organic; therefore, considered to be site-related				
PEST/PCB	ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	319-84-6	X	X
PEST/PCB	ALPHA-CHLORDANE	5103-71-9	X	X
PEST/PCB	BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	319-85-7	X	X
PEST/PCB	DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	319-86-8	X	X
PEST/PCB	DIELDRIN	60-57-1	X	X
PEST/PCB	ENDOSULFAN SULFATE	1031-07-8	X	X
PEST/PCB	ENDRIN	72-20-8	X	X
PEST/PCB	ENDRIN ALDEHYDE	7421-93-4	X	X
PEST/PCB	ENDRIN KETONE	53494-70-5	X	X
PEST/PCB	HEPTACHLOR	76-44-8	X	X
PEST/PCB	HEPTACHLOR EPOXIDE	1024-57-3	X	X
PEST/PCB	METHOXYCHLOR	72-43-5	X	X
PEST/PCB	p,p'-DDD	72-54-8	X	X
PEST/PCB	p,p'-DDE	72-55-9	X	X
PEST/PCB	p,p'-DDT	50-29-3	X	X
SVOC	2-METHYLNAPHTHALENE	91-57-6	X	X
SVOC	ACENAPHTHENE	83-32-9	X	X
SVOC	ANTHRACENE	120-12-7	X	X
SVOC	BENZO(a)ANTHRACENE	56-55-3	X	X
SVOC	BENZO(a)PYRENE	50-32-8	X	X
SVOC	BENZO(b)FLUORANTHENE	205-99-2	X	X
SVOC	BENZO(g,h,i)PERYLENE	191-24-2	X	X
SVOC	BENZO(k)FLUORANTHENE	207-08-9	X	X
SVOC	bis(2-ETHYLHEXYL) PHTHALATE	117-81-7	X	X
SVOC	CHRYSENE	218-01-9	X	X
SVOC	DI-n-BUTYL PHTHALATE	84-74-2	X	X
SVOC	DI-n-OCTYLPHTHALATE	117-84-0	X	X
SVOC	DIBENZ(a,h)ANTHRACENE	53-70-3	X	X
SVOC	DIBENZOFURAN	132-64-9	X	X
SVOC	FLUORANTHENE	206-44-0	X	X
SVOC	FLUORENE	86-73-7	X	X
SVOC	INDENO(1,2,3-c,d)PYRENE	193-39-5	X	X
SVOC	PHENANTHRENE	85-01-8	X	X
SVOC	PYRENE	129-00-0	X	X

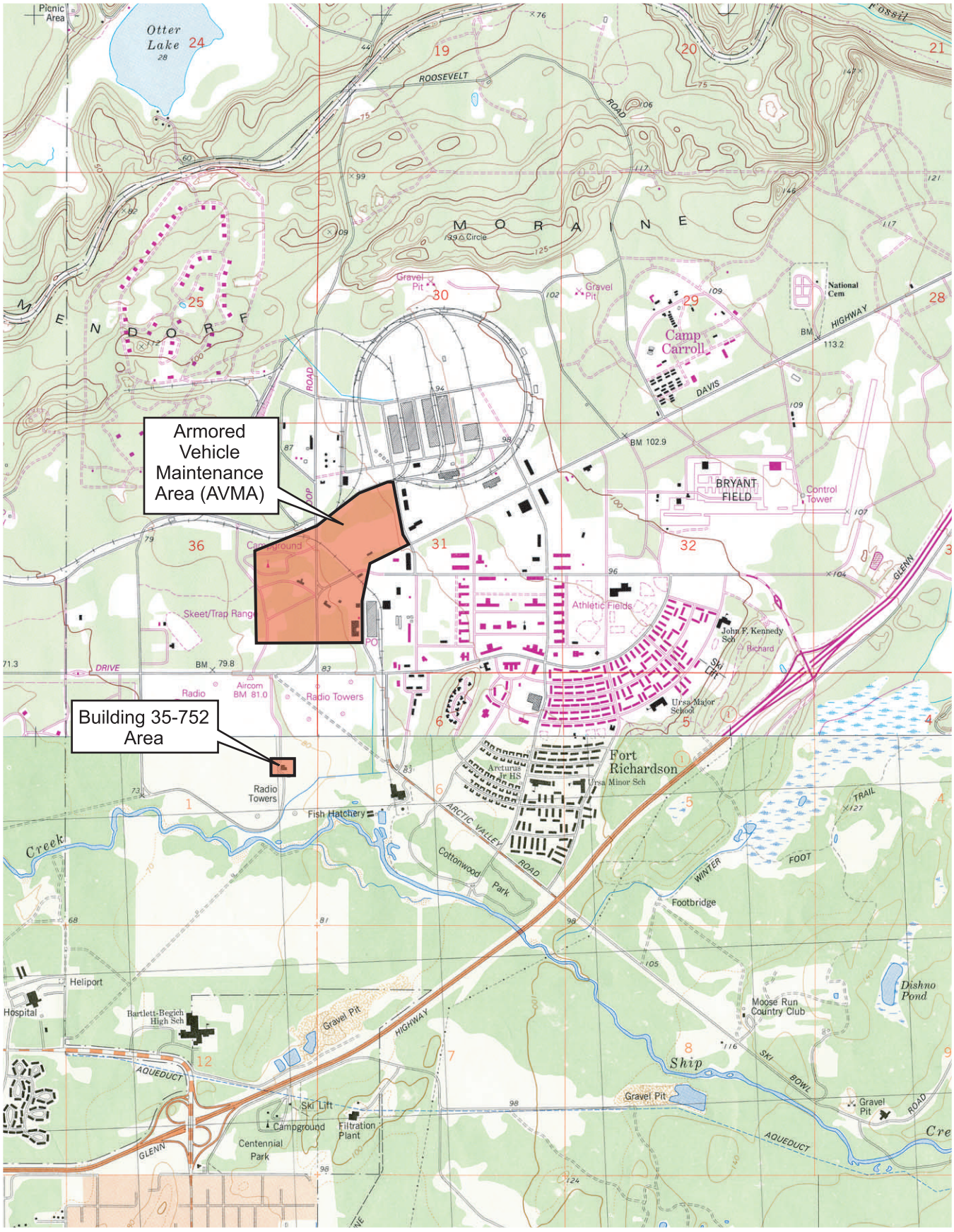
TABLE 2-15

AVMA—Selection of Chemicals of Potential Ecological Concern for Birds and Mammals (depths 0 to 1 foot bgs)

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Chemical Group	Analytes	CAS	Detected?	Sampled in 2002
TPH	DIESEL RANGE ORGANICS	DRO	X	X
TPH	GASOLINE RANGE ORGANICS	GRO	X	X
VOC	1,2,4-TRIMETHYLBENZENE	95-63-6	X	X
VOC	1,3,5-TRIMETHYLBENZENE (MESITYLENE)	108-67-8	X	X
VOC	ACETONE	67-64-1	X	X
VOC	ETHYLBENZENE	100-41-4	X	X
VOC	HEXACHLOROBUTADIENE	87-68-3	X	X
VOC	ISOPROPYLBENZENE (CUMENE)	98-82-8	X	X
VOC	METHYL ETHYL KETONE (2-BUTANONE)	78-93-3	X	X
VOC	METHYLENE CHLORIDE	75-09-2	X	X
VOC	NAPHTHALENE	91-20-3	X	X
VOC	O-XYLENE (1,2-DIMETHYLBENZENE)	95-47-6	X	X
VOC	P-CYMENE (p-ISOPROPYLTOLUENE)	CYMP	X	X
VOC	TOLUENE	108-88-3	X	X
VOC	XYLENES, m & p	XYLENES1314	X	X



E112002006ANC baselocmap 03/16/04 jb

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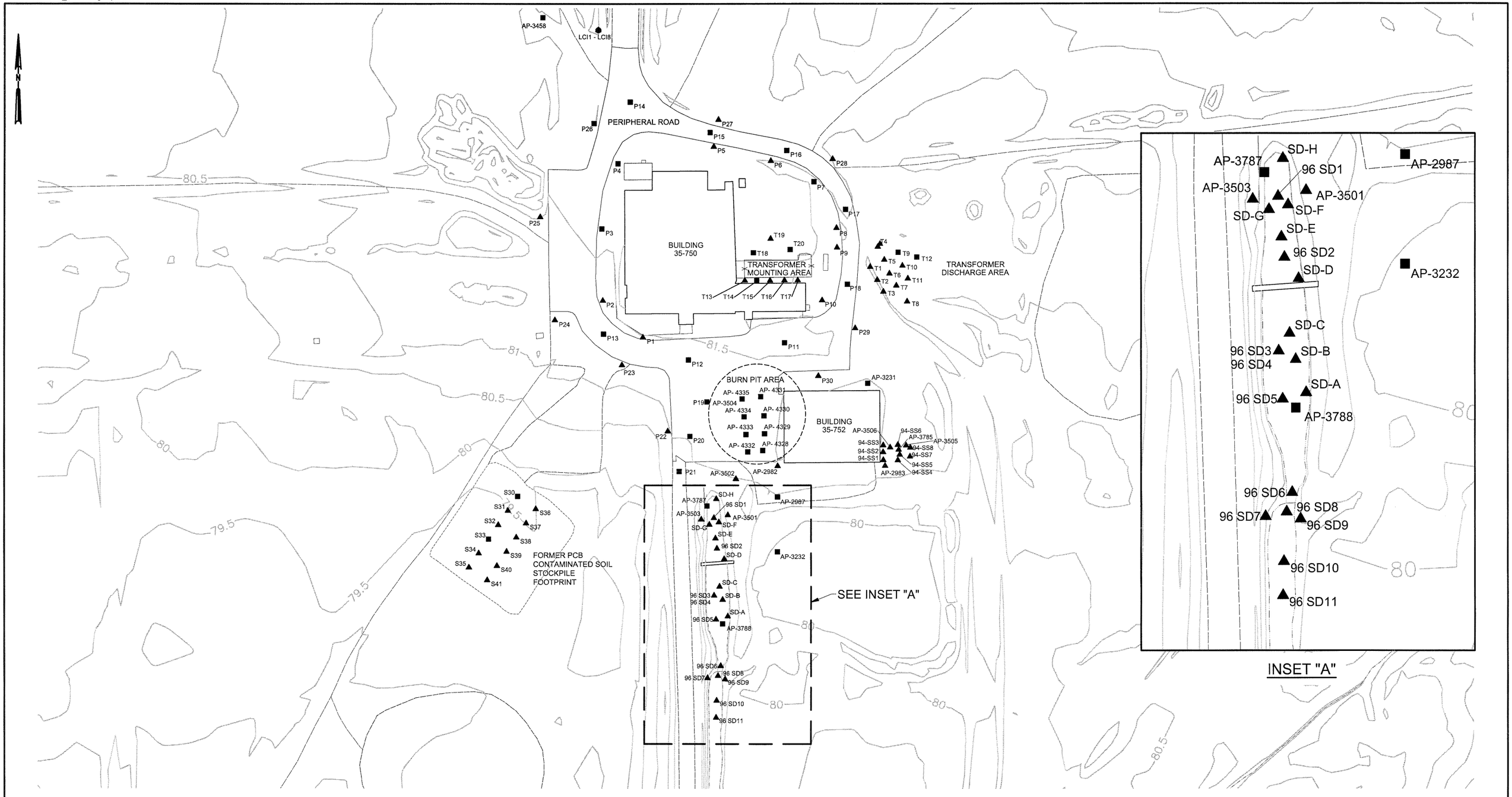
Figure 2-1
Location of OUE Sites
Operable Unit E Baseline Ecological Risk Assessment
Fort Richardson, Alaska

171256 AVMA-2_2 eco.dwg April 21, 2004 - 11:03am



12.5 0 12.5 25 M

METRIC SCALE

LEGEND

▲ SAMPLE LOCATIONS USED IN THE ECOLOGICAL RISK ASSESSMENT FOR OUE

■ SAMPLE LOCATION NOT USED IN THE ECOLOGICAL RISK ASSESSMENT FOR OUE

Figure 2-2
Building 35-752 Area Sample Locations
Operable Unit E
Baseline Ecological Risk Assessment
Fort Richardson, Alaska

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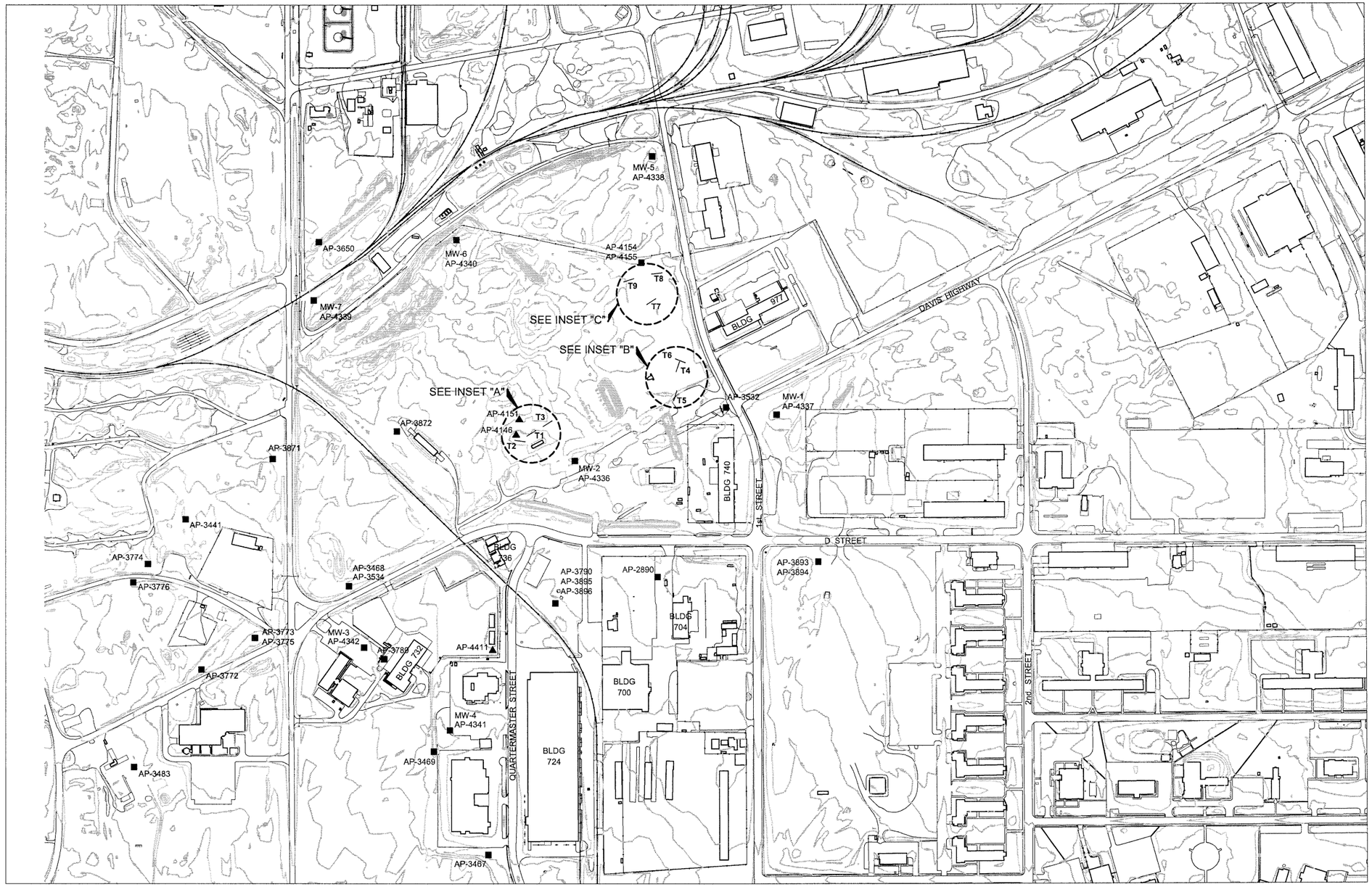

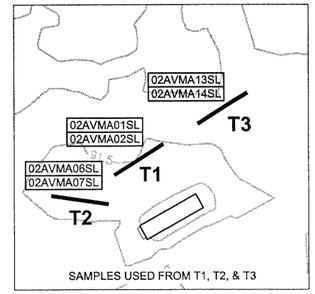

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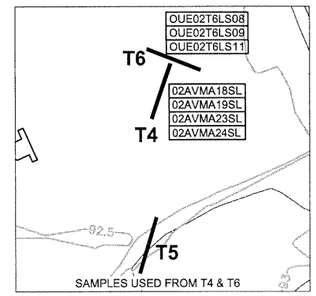

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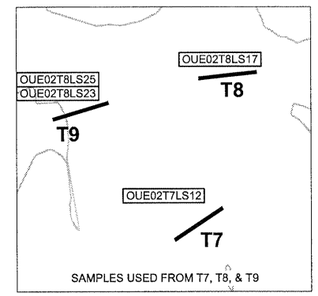


Inset "C"

0 50 100 200 M

METRIC SCALE

LEGEND

▲ SAMPLE LOCATIONS USED IN THE ECOLOGICAL RISK ASSESSMENT FOR OUE

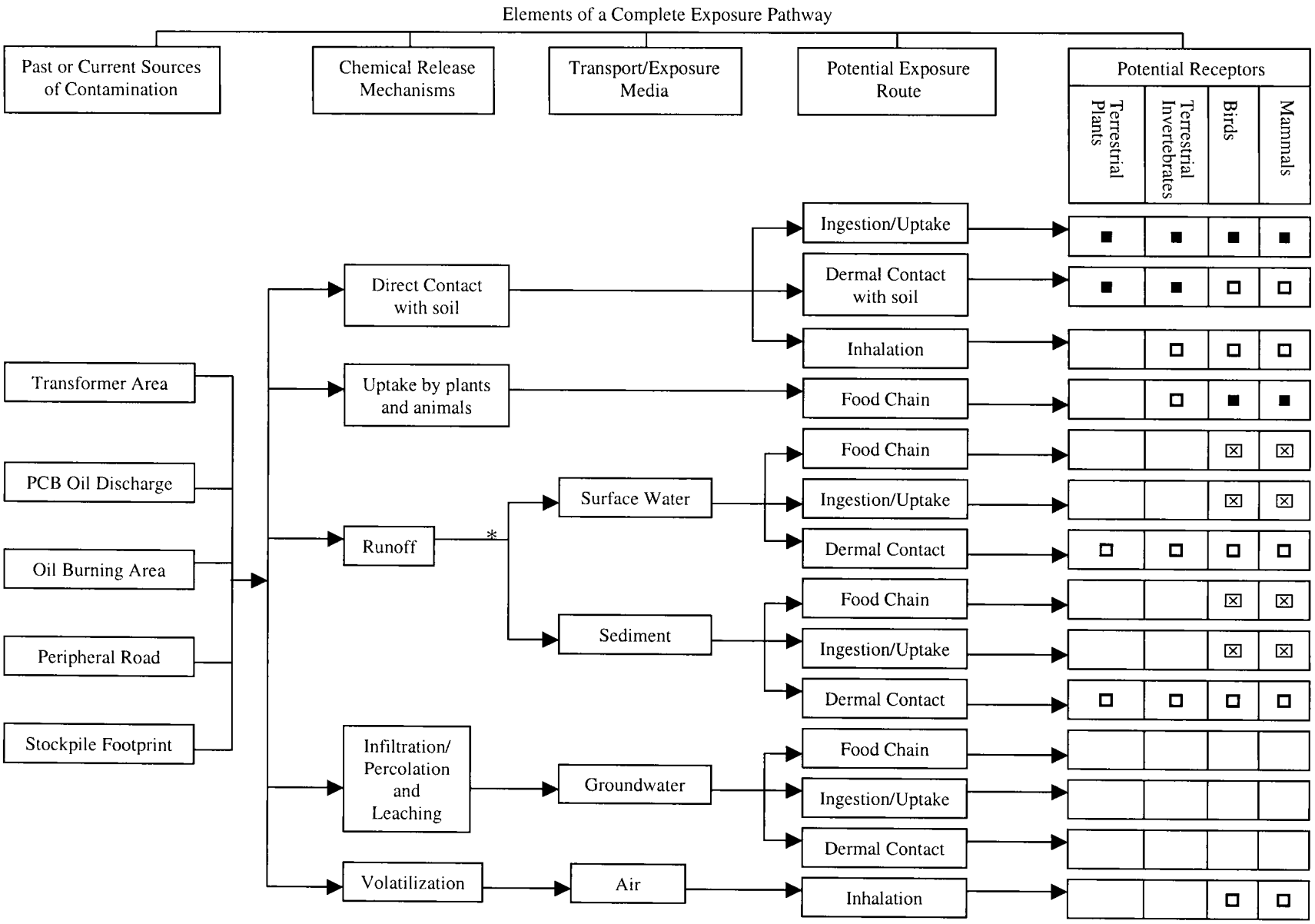
■ SAMPLE LOCATION NOT USED IN THE ECOLOGICAL RISK ASSESSMENT FOR OUE

(TP-1) TEST PIT TRENCHING

OUE02T8LS17 SAMPLES FROM TRENCHES (AS LISTED) WERE USED IN THE ECOLOGICAL RISK ASSESSMENT FOR OUE

Figure 2-3
AVMA Sample Locations
Operable Unit E
Baseline Ecological Risk Assessment
Fort Richardson, Alaska

CH2MHILL

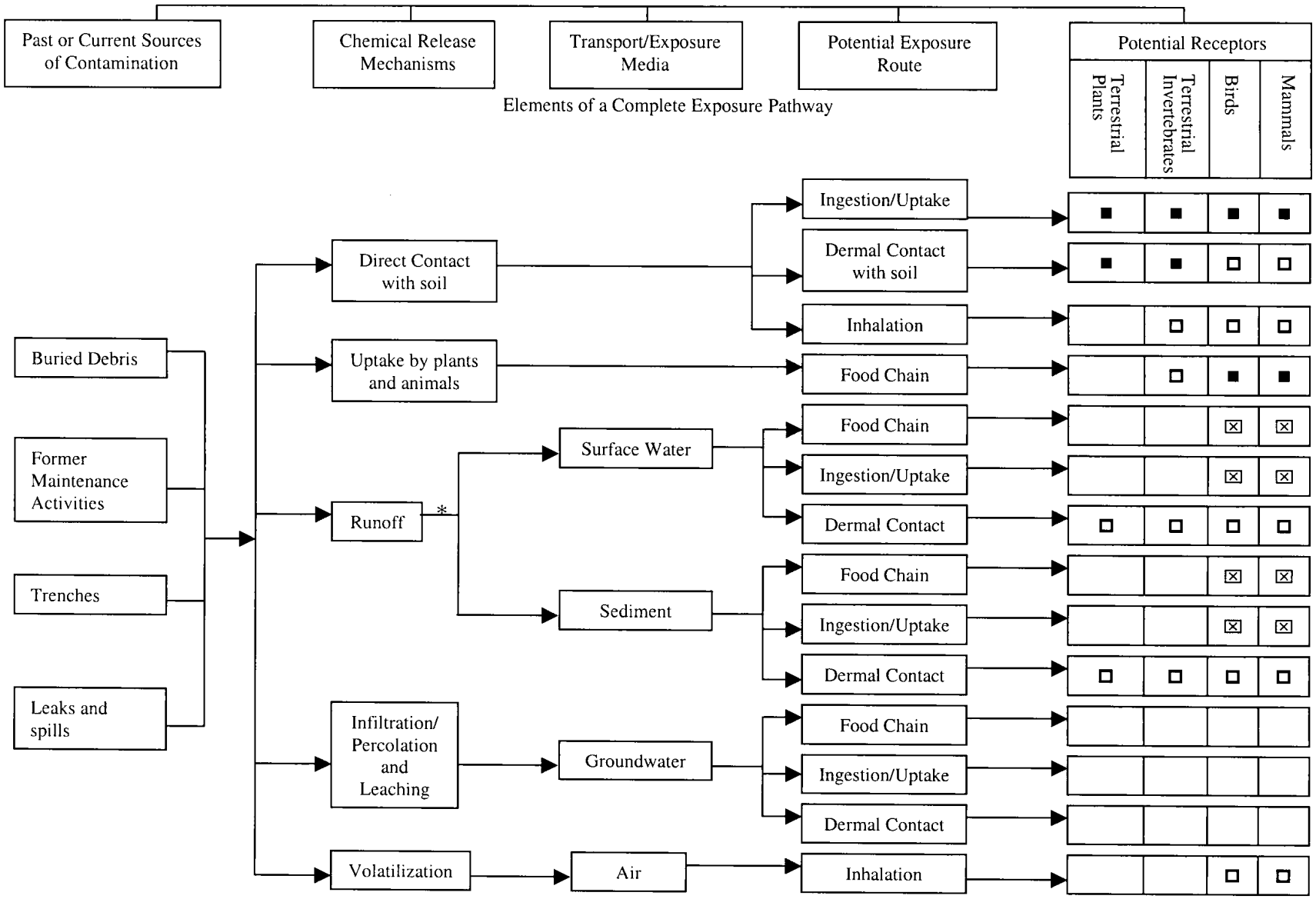


Legend

■ = Potentially complete pathway **Blank** = Incomplete pathway □ = Pathway considered insignificant ☒ = Potentially complete offsite

* The aquatic pathways (exposures to surface water and sediment) were not analyzed in this assessment because they have already been evaluated in the OUD ERA and the Postwide ERA (ENSR, 1998a and b).

FIGURE 2-4
Conceptual Site Model for Potential Ecological Exposures
Building 35-752, Fort Richardson, Alaska



Legend

■ = Potentially complete pathway **Blank** = Incomplete pathway ☐ = Pathway considered insignificant ☒ = Potentially complete offsite

* The aquatic pathways (exposures to surface water and sediment) were not analyzed in this assessment because they have already been evaluated in the Postwide ERA (ENSR, 1998b).

FIGURE 2-5
Conceptual Site Model for Potential Ecological Exposures
Armored Vehicle Maintenance Area, Fort Richardson, Alaska

SECTION 3

Analysis

The analysis phase consists of the technical evaluation of chemical and ecological data to determine potential ecological exposure and effects. The analysis includes the exposure assessment and the ecological effects assessment.

3.1 Exposure Assessment

The nature and magnitude of the interaction between COPECs in environmental media and ecological receptors are described and quantified in the exposure assessment. The methods for and the results of exposure estimation are outlined below for each receptor group.

3.1.1 Terrestrial Plants

These receptors play an important function in the food chain and were selected according to the assessment endpoints identified in Section 2.3.3 and Table 2-2. Terrestrial plants experience exposure primarily through the soil where they live. Although other exposure pathways, such as water, may contribute to total exposure for this receptor group, exposure through the soil predominates. Consequently, estimates of exposure for terrestrial plants may be represented as the concentration of COPECs in the soil. Because plants are not mobile, their exposure is best represented by maximum COPEC concentrations in the soil. For the purposes of this assessment, plants were evaluated for COPECs in soils from 0 to 6 feet bgs. Summary statistics for soils from 0 to 6 feet bgs are presented in Tables 2-4 and 2-6 for Building 35-752 and the AVMA, respectively.

3.1.2 Terrestrial Invertebrates

As with plants, terrestrial invertebrates have an important function in the food chain and were selected according to the assessment endpoints identified in Section 2.3.3 and Table 2-2. Terrestrial invertebrates experience exposure primarily through the soil in which they reside. Although other exposure pathways may contribute to total exposure for this receptor group, exposure through soil predominates. Consequently, estimates of exposure for terrestrial invertebrates may be represented as the concentration of COPECs in the soil. Because mobility of invertebrates is limited or absent, their exposure is best represented by maximum COPEC concentrations in the soil. For the purposes of this assessment, invertebrates were evaluated for COPECs in soils from 0 to 6 feet bgs. Summary statistics for soils from 0 to 6 feet bgs are presented in Tables 2-4 and 2-6 for Building 35-752 and the AVMA, respectively.

3.1.3 Birds and Mammals

Birds and mammals experience exposure through multiple pathways, including ingestion of abiotic media (soil and surface water) and biotic media (food), inhalation, and dermal contact. To address this multiple pathway exposure, modeling is required. The necessary input parameters to the exposure model are outlined below. Exposure estimates for bird

and mammal receptors were generated based on model assumptions, life history parameters, and estimated concentrations in exposure media (soil) and food sources described below.

The end product, or exposure estimate, for birds and mammals is a dosage (amount of chemical in milligrams per kilogram receptor body weight per day [mg/kg/day]) rather than a media concentration, as is the case for the other receptor groups (terrestrial plants and invertebrates). This is a function of both the multiple pathway approach and the typical methods used in toxicity testing for birds and mammals. Summaries of total (i.e., sum over all pathways) and partial (pathway-specific) exposure estimates are presented and compared to toxicity values in Section 4.2.

3.1.3.1 Model

The general form of the model (Suter *et al*., 2000) used to estimate exposure of birds and mammals to COPECs in soil, sediment, surface water, and food items is as follows:

$$E_t = E_o + E_d + E_i$$

Where,

E_t = the total chemical exposure experienced by wildlife

E_o, E_d, and E_i = oral, dermal, and inhalation exposure, respectively

Oral exposure occurs through the consumption of contaminated food, water, or soil. Because freshwater sources are not available on-site, water and associated sediments are not considered a complete exposure pathway. Therefore, only consumption of food and soil are considered for the oral exposure pathway.

Dermal exposure occurs when contaminants are absorbed directly through the skin, and inhalation exposure occurs when volatile compounds or fine particulates are inhaled into the lungs. As previously discussed, both dermal and inhalation exposure are insignificant except for burrowing animals, which do not occur at OUE sites. Therefore, exposure of birds and mammals to site contaminants through these pathways is not considered further. Because dermal and inhalation exposures have been eliminated, total chemical exposure experienced by wildlife (E_t) is equal to oral exposure (E_o). By replacing E_o with a generalized exposure model modified from Suter *et al*. (2000), the previous equation was rewritten as follows:

$$E_j = \left[Soil_j \times P_s \times FIR\right] + \left[\sum_{i=1}^{N} B_{ij} \times P_i \times FIR\right]$$

Where,

E_j = total exposure (mg/kg/day)

$Soil_j$ = concentration of chemical in soil (mg/kg)

P_s = soil ingestion rate as a proportion of diet

FIR	=	total food ingestion rate for the representative species (kg diet/kg body weight [BW]/day)
B_{ij}	=	concentration of chemical (j) in biota type (i) (mg/kg)
P_i	=	proportion of biota type (i) in diet

3.1.3.2 Assumptions

To establish parameters for the exposure model, various assumptions were necessary. These assumptions are outlined below.

3.1.3.3 Life History Parameters

The specific life history parameters required to estimate exposure of bird and mammal receptors to the COPEC include body weight, ingestion rate of food, dietary components and percentage of the overall diet represented by each major food type, and approximate amount of soil that may be incidentally ingested based on feeding habits. Many wildlife species are highly mobile, covering large areas in search of food, water, and shelter. The exposure that individuals experience depends on the amount of time they spend at a contaminated site. Site-use depends on the size of the site relative to an animal's home range. However, for the purposes of the quantitative assessment, all receptors were assumed to forage within the site at all times. Home range was considered in the qualitative analysis for COPECs that failed to pass the initial screen. Species-specific life history parameters were obtained from the literature and are presented in Tables 3-1 through 3-6.

3.1.3.4 Bioaccumulation Values

A critical component of the exposure estimation of birds and mammals to COPECs is the measurement of concentrations of COPECs in wildlife foods. Literature-derived bioaccumulation models and values were used to estimate COPEC concentrations in wildlife foods, as presented in Tables 3-7 through 3-9. Log-linear uptake models for plants (soil-to-biota), earthworms (soil-to-biota), and small mammals (diet-to-biota) developed at the Oak Ridge National Laboratory (ORNL) (Bechtel Jacobs, 1998a, 1998b; Sample *et al.*, 1998a, 1998b, 1999) were used to estimate biota concentrations for several inorganics. Models from USEPA (2000) and Sample *et al.* (1997) were used to estimate bioaccumulation factors (BAF) for organics in plants, invertebrates, and small mammals. To be conservative, the fraction of organic carbon in soils at OUE (required for the earthworm bioaccumulation model) was assumed to be 1%. For plants and invertebrates, these models represent bioaccumulation from soil to biota; however, for small mammals, the model represents bioaccumulation from diet to biota. Therefore, bioaccumulation from soil to small mammals was calculated in two steps. This approach requires determining the diet of the small mammal prey and using this diet to determine a contaminant concentration in the prey based on detected concentrations in the soil. Based on the habitat and site conditions, the available small mammals are most likely omnivorous, eating primarily vegetation. A diet of 75 percent plants and 25 percent invertebrates was assumed for the typical small mammal prey at the site. (Note: though rabbits are not generally considered to be small mammals, they are expected to be a common mammalian prey item in the area and their diet was conservatively assumed to be similar to that assumed for small mammals.) Known or

TABLE 3-1
Wildlife Exposure Parameters for American Robin (*Turdus migratorius*)
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Parameter	Value	Reference
Habitat	Breeds in moist forests, swamps, open woodlands, orchards, parks, and lawns. Forages on ground in open areas, along habitat edges, edges of streams.	Speirs 1953, Paszkowski 1982, Malmborg and Willson 1988
Body Weight (kg)	0.0773 $\pm$ 0.00036 (SE) (range = 0.0635 - 0.103)	Clench and Leberman 1978
Food Ingestion Rate (kg/kg-day, dry weight)	0.116 [a]	Hazelton et al. 1984, Levey and Karasov 1989
Water Ingestion Rate (L/kg-day, dry weight)	0.14 (estimated using BW of 0.0773 kg)	Calder and Braun 1983
Soil Ingestion (percentage)	2.1 [b]	Beyer et al. 1994
Dietary Composition	Spring/Summer fruit = 23% invertebrates = 77% Fall/Winter fruit = 66% invertebrates = 34% (assume 77% invertebrates and 23% plant) [c]	Wheelwright 1986 (western United States)
Home Range Size (ha)	0.48 (range = 0.15 - 0.81)	Weatherhead and McRae 1990

Notes:

[a] Ingestion rate represented by the sum of the ingestion rates based on diet of fruit (Hazelton et al. 1984) and crickets (Levey and Karasov 1989) multiplied times the respective contents (23% plant and 77% invertebrate) in the robin diet.

[b] No value for American robin available.Though a value is available for another avian species that consumes earthworms (10.4% for American woodcock), the woodcock diet is >60 to 99% earthworms, whereas the robin diet is <20% earthworms. Therefore, soil ingestion value represents the woodcock soil ingestion proportioned to the percent of earthworms in the robin diet.

[c] Diet for Spring/Summer chosen because ingestion of invertebrates, and thus exposure, is greatest during this breeding period.

TABLE 3-2
Wildlife Exposure Parameters for Bald Eagle (*Haliaeetus leucocephalus*)
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Parameter	Value	Reference
Habitat	Bald eagles generally are restricted to coastal areas, lakes, and rivers, although some may winter in areas not associated with water.	Brown and Amadon 1968, Platt 1976
Body Weight (kg)	4.014 - male 5.089 - female 4.552 - mean (range = 3.524 - 5.756)	Imler and Kalmbach 1955
Food Ingestion Rate (kg/kg-day, dry weight)	0.0192 [a]	Stalmaster and Gessaman 1984
Water Ingestion Rate (L/kg-day, dry weight)	0.036 (estimated using BW of 4.552 kg)	Calder and Braun 1983
Soil Ingestion (percentage)	0 [b]	
Dietary Composition	waterfowl = 50% other birds = 3% salmon = 21% other fish = 6% unaccounted = 20% (assume 100% small mammals) [c]	Fitzner and Hanson 1979
Home Range Size	radius = 0.64 km (range = 0.56 - 0.72 km) 1,880 ha - Adult, both	Mahaffy and Frenzel 1987 Griffin and Baskett 1985

Notes:

[a] Ingestion rate is based on eagle consuming a diet of black-tailed jack rabbits at an ambient temperature of 5°C (41° F). This temperature selected because closest to mean annual temperature (40°F) in Anchorage, AK.

[b] No value for bald eagle available, but likely to be negligible.

[c] Though diet listed is appropriate for coastal areas of Alaska, no water source is available at OUE; therefore, assumed bald eagles foraging on-site would be consuming small mammals. Bald eagles are opportunistic feeders. In winter when surface waters are frozen, feed in upland areas consuming carrion (e.g., rabbits, squirrels, and dead livestock) (Brown and Amadon 1968).

TABLE 3-3
Wildlife Exposure Parameters for Masked Shrew (*Sorex cinereus*)
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Parameter	Value	Reference
Habitat	Predominantly bog-dwelling species.	Buckner 1966
Body Weight (kg)	0.0039 (from Alaska)	Silva and Downing 1995
Food Ingestion Rate (kg/kg-day, dry weight)	0.258 [a]	Buckner 1964
Water Ingestion Rate (L/kg-day, dry weight)	0.172 (estimated using BW of 0.0039 kg)	Calder and Braun 1983
Soil Ingestion (percentage)	13 [b]	Talmage and Walton 1993
Dietary Composition	>95% insects <5% plant material (assume 100% invertebrate)	Buckner 1964
Home Range Size (ha)	0.5544 $\pm$ 0.0364	Buckner 1966

Notes:

[a] Buckner (1964) reports the grams/day wet weight consumption of larch sawfly eonymphs by masked shrews. A body weight of 3.6 g (from study) was used to calculate a wet weight food ingestion rate of 1.61 kg/kg-day. This was converted to a dry weight assuming a water content of 84% for earthworms (USEPA 1993). Earthworms considered most similar to sawfly eonymphs.

[b] No value for masked shrew available, assumed to be similar to soil ingestion reported for short-tailed shrew (*Blarina brevicauda*).

TABLE 3-4
Wildlife Exposure Parameters for Coyote (*Canis latrans*)
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Parameter	Value	Reference
Habitat	Very adaptable to numerous, diverse habitats including forests, range, desert, and urban enviroments	Sample et al. 1997
Body Weight (kg)	12.9 ± 0.2 - male 11.1 ± 0.2 - female	Thurber and Peterson 1991
Food Ingestion Rate (kg/kg-day, dry weight)	0.015 [a]	Litvaitia and Mautz 1980
Water Ingestion Rate (L/kg-day, dry weight)	0.077 (estimated using BW of 12.9 kg)	Calder and Braun 1983
Soil Ingestion (percentage)	2.8 [b]	Beyer et al. 1994
Dietary Composition	lagomorphs = 34% other rodents = 15% livestock = 8% deer = 3% birds = 3% plants = 1% carrion = 36% (assume 100% small mammals)	Sperry 1934
Home Range Size (ha)	3,010 (range = 1,430 - 6,800) [c]	Bekoff 1982, Bekoff and Wells 1980

Notes:

[a] Daily dry matter ingestion reported for three diets (white-tailed deer, snowshoe hare, and laboratory mice). Mean of white-tailed deer and snowshoe hare used to calculate food ingestion rate for a 12.9 kg (BW from study) coyote.

[b] No value for coyote available, assumed to be similar to soil ingestion reported for red fox.

[c] Range for one lone coyote or pairs.

TABLE 3-5
Wildlife Exposure Parameters for Moose (*Alces alces*)
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Parameter	Value	Reference
Habitat	Generally, make large seasonal movements. Utilize upland habitats during the summer and fall, and winter in riparian habitats along major river systems.	Ballard et al. 1991
Body Weight (kg)	635 (range = 545 - 727)	Alaska Department of Fish and Game 1994
Food Ingestion Rate (kg/kg-day, dry weight)	0.03 [a]	Schwartz and Renecker 1997
Water Ingestion Rate (L/kg-day, dry weight)	0.05 (estimated using BW of 635 kg)	Calder and Braun 1983
Soil Ingestion (percentage)	2	Petersen 1955
Dietary Composition	98% plant 75% terrestrial vegetation (13.97 kg/d) (e.g., willow, ground hemlock, quaking aspen, and balsam) 25% aquatic vegetation (4.65 kg/d) (assume 100% terrestrial plant)	Petersen 1955
Home Range Size (ha)	3,650 - winter resident 2,100 - summer resident 7,240 - winter migratory 3,990 - summer migratory	Ballard et al. 1991 [b]

Notes:

[a] Reported intake of 2.6 to 3.5 percent of body weight in dry matter each day in summer and 0.5 to 1.3 percent in winter (Schwartz and Renecker 1997). Food ingestion calculated using a body weight of 635 kg and the average percent food intake (3 percent) for moose in summer.

[b] Ballard et al. (1991) described two separate populations of moose in their study area in south-central Alaska; those that are resident and those that are migratory. The values presented also have been adjusted to eliminate areas not utilized by moose within the study area (glaciers, lakes, and elevations >1,220 m).

TABLE 3-6

Wildlife Exposure Parameters for Northern Red-Backed Vole (*Clethrionomys rutilus*)

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Parameter	Value	Reference
Habitat	The southern red-backed vole (*C. gapperi*) is restricted to cool, moist habitats such as bogs and swamps.	Deavers and Hudson 1979
Body Weight (kg)	0.02166 (mean of Alaska values)	Silva and Downing 1995
Food Ingestion Rate (kg/kg-day, dry weight)	0.16 [a] (value for *C. gapperi*)	Innes and Millar 1981
Water Ingestion Rate (L/kg-day, dry weight)	0.824 at 5^{o} C 0.500 at 20^{o} C (values for *C. gapperi*)	Deavers and Hudson 1979
Soil Ingestion (percentage)	2.4 [b]	Beyer et al. 1994
Dietary Composition	dicot shoots = 50% monocot shoots = 17% seeds = 15% roots = 7% fungi = 6% insects = 3% (assume 100% plant)	Lindroth and Batzli 1984 [c]
Home Range Size (ha)	0.013 [d] (range = 0.0069 - 0.019)	Madison 1980

Notes:

[a] Innes and Millar (1981) developed an equation to determine the number of grams food per day required for maintenance for the southern red-backed vole (*C. gapperi*). A body weight of 26.82 g (from the study) was used to calculate the food ingestion rate.

[b] No value for red-backed vole available, assumed to be similar to soil ingestion reported for meadow voles (*Microtus pennsylvanicus*).

[c] Diet reported is for meadow voles, but is used as a surrogate diet for red-backed voles. Deavers and Hudson (1979) indicate that red-backed voles eat mainly green vegetation as do meadow voles.

[d] No value for red-backed vole available, assumed to be similar to home range reported for meadow voles.

TABLE 3-7
Bioaccumulation Values and Models for Plants for Calculation of Wildlife Exposure
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Chemical Group	Analytes	Log K_{ow}	K_{ow} Reference	N	BAF	Regression Model		Transfer Type	Comments	BAF/Model Reference
						Slope (B_1)	Intercept (B_0) Form			
Inorganics										
METAL	ALUMINUM	NA	NA	28	0.00287			soil-plant	median of 28 values	Bechtel-Jacobs, 1998a
METAL	ANTIMONY	NA	NA	2	0.0102				median of 2 values	Bechtel-Jacobs, 1998a
METAL	ARSENIC	NA	NA		--	0.564	-1.992 ln(plant) = B0+B1(ln[soil])	soil-plant	represents bioaccumulation into aboveground plant	Bechtel-Jacobs, 1998a
METAL	BARIUM	NA	NA	28	0.156			soil-plant	median of 28 values	Bechtel-Jacobs, 1998a
METAL	BERYLLIUM	NA	NA		1				Default value	
METAL	CADMIUM	NA	NA		--	0.546	-0.476 ln(plant) = B0+B1(ln[soil])	soil-plant	represents bioaccumulation into aboveground plant	Bechtel-Jacobs, 1998a
METAL	CHROMIUM, TOTAL	NA	NA	28	0.041			soil-plant	median of 28 values	Bechtel-Jacobs, 1998a
METAL	COBALT	NA	NA	28	0.00745				median of 28 values	Bechtel-Jacobs, 1998a
METAL	COPPER	NA	NA		--	0.394	0.669 ln(plant) = B0+B1(ln[soil])	soil-plant	represents bioaccumulation into aboveground plant	Bechtel-Jacobs, 1998a
METAL	LEAD	NA	NA		--	0.561	-1.328 ln(plant) = B0+B1(ln[soil])	soil-plant	represents bioaccumulation into aboveground plant	Bechtel-Jacobs, 1998a
METAL	MANGANESE	NA	NA	28	0.0792				median of 28 values	Bechtel-Jacobs, 1998a
METAL	MERCURY	NA	NA		--	0.544	-0.996 ln(plant) = B0+B1(ln[soil])	soil-plant	represents bioaccumulation into aboveground plant	Bechtel-Jacobs, 1998a
METAL	NICKEL	NA	NA		--	0.748	-2.224 ln(plant) = B0+B1(ln[soil])	soil-plant	represents bioaccumulation into aboveground plant	Bechtel-Jacobs, 1998a
METAL	SELENIUM	NA	NA	158	--	1.104	-0.678 ln(plant) = B0+B1(ln[soil])	soil-plant	represents bioaccumulation into aboveground plant	Bechtel-Jacobs, 1998a
METAL	SILVER	NA	NA	10	0.014				median of 10 values	Bechtel-Jacobs, 1998a
METAL	THALLIUM	NA	NA		1				Default value	
METAL	VANADIUM	NA	NA	21	0.00485				median of 21 values	Bechtel-Jacobs, 1998a
METAL	ZINC	NA	NA		--	0.555	1.575 ln(plant) = B0+B1(ln[soil])	soil-plant	represents bioaccumulation into aboveground plant	Bechtel-Jacobs, 1998a
Organics										
DIOXIN/FURANS	1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	7.92	http://esc.syrres.com		0.0182			$BAF=10^{\wedge 1.31-0.385(log10Kow)}$ soil-plant	BAF calculated from Kow.	USEPA 2000
DIOXIN/FURANS	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN	8.2	http://esc.syrres.com		0.0142			$BAF=10^{\wedge 1.31-0.385(log10Kow)}$ soil-plant	BAF calculated from Kow.	USEPA 2000
DIOXIN/FURANS	1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	7.92	http://esc.syrres.com		0.0182			$BAF=10^{\wedge 1.31-0.385(log10Kow)}$ soil-plant	BAF calculated from Kow.	USEPA 2000
DIOXIN/FURANS	1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	7.92	http://esc.syrres.com*		0.0182			$BAF=10^{\wedge 1.31-0.385(log10Kow)}$ soil-plant	BAF calculated from Kow.	USEPA 2000
DIOXIN/FURANS	1,2,3,4,7,8-HEXACHLORODIBENZO-p-DIOXIN	7.8	http://esc.syrres.com		0.0203			$BAF=10^{\wedge 1.31-0.385(log10Kow)}$ soil-plant	BAF calculated from Kow.	USEPA 2000
DIOXIN/FURANS	1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	7.92	http://esc.syrres.com*		0.0182			$BAF=10^{\wedge 1.31-0.385(log10Kow)}$ soil-plant	BAF calculated from Kow.	USEPA 2000
DIOXIN/FURANS	1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	8.21	http://esc.syrres.com*		0.0141			$BAF=10^{\wedge 1.31-0.385(log10Kow)}$ soil-plant	BAF calculated from Kow.	USEPA 2000
DIOXIN/FURANS	1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	8.21	http://esc.syrres.com*		0.0141			$BAF=10^{\wedge 1.31-0.385(log10Kow)}$ soil-plant	BAF calculated from Kow.	USEPA 2000
DIOXIN/FURANS	1,2,3,7,8-PENTACHLORODIBENZOFURAN	6.79	http://esc.syrres.com		0.0496			$BAF=10^{\wedge 1.31-0.385(log10Kow)}$ soil-plant	BAF calculated from Kow.	USEPA 2000
DIOXIN/FURANS	1,2,3,7,8-PENTACHLORODIBENZO-p-DIOXIN	6.64	http://esc.syrres.com		0.0567			$BAF=10^{\wedge 1.31-0.385(log10Kow)}$ soil-plant	BAF calculated from Kow.	USEPA 2000
DIOXIN/FURANS	2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	7.92	http://esc.syrres.com*		0.0182			$BAF=10^{\wedge 1.31-0.385(log10Kow)}$ soil-plant	BAF calculated from Kow.	USEPA 2000
DIOXIN/FURANS	2,3,4,7,8-PENTACHLORODIBENZOFURAN	6.92	http://esc.syrres.com		0.0442			$BAF=10^{\wedge 1.31-0.385(log10Kow)}$ soil-plant	BAF calculated from Kow.	USEPA 2000
DIOXIN/FURANS	2,3,7,8-TETRACHLORODIBENZOFURAN	6.53	http://esc.syrres.com		0.0625			$BAF=10^{\wedge 1.31-0.385(log10Kow)}$ soil-plant	BAF calculated from Kow.	USEPA 2000
DIOXIN/FURANS	2,3,7,8-TETRACHLORODIBENZO-p-DIOXIN	6.53	USEPA 1995a		0.0625			$BAF=10^{\wedge 1.31-0.385(log10Kow)}$ soil-plant	BAF calculated from Kow.	USEPA 2000
DIOXIN/FURANS	HEPTACHLORINATED DIBENZOFURANS, (TOTAL)	NA	NA	NA	NA	NA	NA NA NA	NA	NA	NA
DIOXIN/FURANS	HEPTACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	NA	NA	NA	NA	NA	NA NA NA	NA	NA	NA
DIOXIN/FURANS	HEXACHLORINATED DIBENZOFURANS, (TOTAL)	NA	NA	NA	NA	NA	NA NA NA	NA	NA	NA
DIOXIN/FURANS	HEXACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	NA	NA	NA	NA	NA	NA NA NA	NA	NA	NA

TABLE 3-7
Bioaccumulation Values and Models for Plants for Calculation of Wildlife Exposure
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Chemical Group	Analytes	Log K_{ow}	K_{ow} Reference	N	BAF	Regression Model: Slope (B_1)	Regression Model: Intercept (B_0)	Form	Transfer Type	Comments	BAF/Model Reference
DIOXIN/FURANS	OCTACHLORODIBENZOFURAN	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DIOXIN/FURANS	OCTACHLORODIBENZO-p-DIOXIN	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DIOXIN/FURANS	PENTACHLORINATED DIBENZOFURANS, (TOTAL)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DIOXIN/FURANS	PENTACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DIOXIN/FURANS	TETRACHLORINATED DIBENZOFURANS, (TOTAL)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DIOXIN/FURANS	TETRACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PEST/PCB	ALDRIN	6.5	USEPA 1995a		0.0642			$BAF=10^{\wedge 1.31-0.385(log10Kow)}$	soil-plant	BAF calculated from Kow.	USEPA 2000
PEST/PCB	ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	3.8	USEPA 1995a		0.7031			$BAF=10^{\wedge 1.31-0.385(log10Kow)}$	soil-plant	BAF calculated from Kow.	USEPA 2000
PEST/PCB	ALPHA-CHLORDANE	6.1	http://esc.syrres.com		0.0915			$BAF=10^{\wedge 1.31-0.385(log10Kow)}$	soil-plant	BAF calculated from Kow.	USEPA 2000
PEST/PCB	BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	3.81	USEPA 1995a		0.6969			$BAF=10^{\wedge 1.31-0.385(log10Kow)}$	soil-plant	BAF calculated from Kow.	USEPA 2000
PEST/PCB	DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	4.14	http://esc.syrres.com		0.5201			$BAF=10^{\wedge 1.31-0.385(log10Kow)}$	soil-plant	BAF calculated from Kow.	USEPA 2000
PEST/PCB	DIELDRIN	5.37	USEPA 1995a		0.1748			$BAF=10^{\wedge 1.31-0.385(log10Kow)}$	soil-plant	BAF calculated from Kow.	USEPA 2000
PEST/PCB	ENDOSULFAN SULFATE	3.66	http://esc.syrres.com		0.7960			$BAF=10^{\wedge 1.31-0.385(log10Kow)}$	soil-plant	BAF calculated from Kow.	USEPA 2000
PEST/PCB	ENDRIN	5.06	USEPA 1995a		0.2301			$BAF=10^{\wedge 1.31-0.385(log10Kow)}$	soil-plant	BAF calculated from Kow.	USEPA 2000
PEST/PCB	ENDRIN ALDEHYDE	4	USEPA 1995a		0.5888			$BAF=10^{\wedge 1.31-0.385(log10Kow)}$	soil-plant	BAF calculated from Kow.	USEPA 2000
PEST/PCB	ENDRIN KETONE	4.99	http://esc.syrres.com*		0.2448			$BAF=10^{\wedge 1.31-0.385(log10Kow)}$	soil-plant	BAF calculated from Kow.	USEPA 2000
PEST/PCB	HEPTACHLOR	6.26	USEPA 1995a		0.0794			$BAF=10^{\wedge 1.31-0.385(log10Kow)}$	soil-plant	BAF calculated from Kow.	USEPA 2000
PEST/PCB	HEPTACHLOR EPOXIDE	5	USEPA 1995a		0.2427			$BAF=10^{\wedge 1.31-0.385(log10Kow)}$	soil-plant	BAF calculated from Kow.	USEPA 2000
PEST/PCB	METHOXYCHLOR	5.08	USEPA 1995a		0.2260			$BAF=10^{\wedge 1.31-0.385(log10Kow)}$	soil-plant	BAF calculated from Kow.	USEPA 2000
PEST/PCB	p,p'-DDD	6.1	USEPA 1995a		0.0915			$BAF=10^{\wedge 1.31-0.385(log10Kow)}$	soil-plant	BAF calculated from Kow.	USEPA 2000
PEST/PCB	p,p'-DDE	6.76	USEPA 1995a		0.0510			$BAF=10^{\wedge 1.31-0.385(log10Kow)}$	soil-plant	BAF calculated from Kow.	USEPA 2000
PEST/PCB	p,p'-DDT	6.53	USEPA 1995a		0.0625			$BAF=10^{\wedge 1.31-0.385(log10Kow)}$	soil-plant	BAF calculated from Kow.	USEPA 2000
PEST/PCB	PCB-1260 (AROCLOR 1260)	6.8	http://toxnet.nlm.nih.gov		0.0492			$BAF=10^{\wedge 1.31-0.385(log10Kow)}$	soil-plant	BAF calculated from Kow.	USEPA 2000
SVOC	2-METHYLNAPHTHALENE	3.86	http://esc.syrres.com		0.6667			$BAF=10^{\wedge 1.31-0.385(log10Kow)}$	soil-plant	BAF calculated from Kow.	USEPA 2000
SVOC	ACENAPHTHENE	3.92	USEPA 1995a		0.6321			$BAF=10^{\wedge 1.31-0.385(log10Kow)}$	soil-plant	BAF calculated from Kow.	USEPA 2000
SVOC	ACENAPHTHYLENE	3.94	http://esc.syrres.com		0.6210			$BAF=10^{\wedge 1.31-0.385(log10Kow)}$	soil-plant	BAF calculated from Kow.	USEPA 2000
SVOC	ANTHRACENE	4.55	USEPA 1995a		0.3616			$BAF=10^{\wedge 1.31-0.385(log10Kow)}$	soil-plant	BAF calculated from Kow.	USEPA 2000
SVOC	BENZO(a)ANTHRACENE	5.7	USEPA 1995a		0.1305			$BAF=10^{\wedge 1.31-0.385(log10Kow)}$	soil-plant	BAF calculated from Kow.	USEPA 2000
SVOC	BENZO(a)PYRENE	6.11	USEPA 1995a		0.0907			$BAF=10^{\wedge 1.31-0.385(log10Kow)}$	soil-plant	BAF calculated from Kow.	USEPA 2000
SVOC	BENZO(b)FLUORANTHENE	6.2	USEPA 1995a		0.0838			$BAF=10^{\wedge 1.31-0.385(log10Kow)}$	soil-plant	BAF calculated from Kow.	USEPA 2000
SVOC	BENZO(g,h,i)PERYLENE	6.7	USEPA 1995a		0.0538			$BAF=10^{\wedge 1.31-0.385(log10Kow)}$	soil-plant	BAF calculated from Kow.	USEPA 2000
SVOC	BENZO(k)FLUORANTHENE	6.2	USEPA 1995a		0.0838			$BAF=10^{\wedge 1.31-0.385(log10Kow)}$	soil-plant	BAF calculated from Kow.	USEPA 2000
SVOC	bis(2-ETHYLHEXYL) PHTHALATE	7.3	USEPA 1995a		0.0316			$BAF=10^{\wedge 1.31-0.385(log10Kow)}$	soil-plant	BAF calculated from Kow.	USEPA 2000
SVOC	CHRYSENE	5.7	USEPA 1995a		0.1305			$BAF=10^{\wedge 1.31-0.385(log10Kow)}$	soil-plant	BAF calculated from Kow.	USEPA 2000
SVOC	DIBENZ(a,h)ANTHRACENE	6.69	USEPA 1995a		0.0542			$BAF=10^{\wedge 1.31-0.385(log10Kow)}$	soil-plant	BAF calculated from Kow.	USEPA 2000
SVOC	DIBENZOFURAN	4.12	http://esc.syrres.com		0.5294			$BAF=10^{\wedge 1.31-0.385(log10Kow)}$	soil-plant	BAF calculated from Kow.	USEPA 2000
SVOC	DI-n-BUTYL PHTHALATE	4.61	USEPA 1995a		0.3429			$BAF=10^{\wedge 1.31-0.385(log10Kow)}$	soil-plant	BAF calculated from Kow.	USEPA 2000
SVOC	DI-n-OCTYLPHTHALATE	8.06	USEPA 1995a		0.0161			$BAF=10^{\wedge 1.31-0.385(log10Kow)}$	soil-plant	BAF calculated from Kow.	USEPA 2000
SVOC	FLUORANTHENE	5.12	USEPA 1995a		0.2182			$BAF=10^{\wedge 1.31-0.385(log10Kow)}$	soil-plant	BAF calculated from Kow.	USEPA 2000
SVOC	FLUORENE	4.21	USEPA 1995a		0.4888			$BAF=10^{\wedge 1.31-0.385(log10Kow)}$	soil-plant	BAF calculated from Kow.	USEPA 2000
SVOC	INDENO(1,2,3-c,d)PYRENE	6.65	USEPA 1995a		0.0562			$BAF=10^{\wedge 1.31-0.385(log10Kow)}$	soil-plant	BAF calculated from Kow.	USEPA 2000
SVOC	PHENANTHRENE	4.55	USEPA 1995a		0.3616			$BAF=10^{\wedge 1.31-0.385(log10Kow)}$	soil-plant	BAF calculated from Kow.	USEPA 2000
SVOC	PYRENE	5.11	USEPA 1995a		0.2201			$BAF=10^{\wedge 1.31-0.385(log10Kow)}$	soil-plant	BAF calculated from Kow.	USEPA 2000

TABLE 3-7
Bioaccumulation Values and Models for Plants for Calculation of Wildlife Exposure
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Chemical Group	Analytes	Log K_{ow}	K_{ow} Reference	N	BAF	Regression Model		Transfer Type	Comments	BAF/Model Reference
						Slope (B_1)	Intercept (B_0) Form			
TPH	DIESEL RANGE ORGANICS	--			1			soil-plant	Defualt Value	
TPH	GASOLINE RANGE ORGANICS	--			1			soil-plant	Defualt Value	
TPH	TPH	--			1			soil-plant	Defualt Value	
VOC	1,1,1-TRICHLOROETHANE	2.49	USEPA 1995a		2.2457		$BAF=10^{\wedge 1.31-0.385(log10Kow)}$	soil-plant	BAF calculated from Kow.	USEPA 2000
VOC	1,2,4-TRIMETHYLBENZENE	3.63	http://esc.syrres.com		0.8174		$BAF=10^{\wedge 1.31-0.385(log10Kow)}$	soil-plant	BAF calculated from Kow.	USEPA 2000
VOC	1,3,5-TRIMETHYLBENZENE (MESITYLENE)	3.42	http://esc.syrres.com		0.9847		$BAF=10^{\wedge 1.31-0.385(log10Kow)}$	soil-plant	BAF calculated from Kow.	USEPA 2000
VOC	1,4-DICHLOROBENZENE	3.42	USEPA 1995a		0.9847		$BAF=10^{\wedge 1.31-0.385(log10Kow)}$	soil-plant	BAF calculated from Kow.	USEPA 2000
VOC	2-CHLOROTOLUENE	3.42	http://esc.syrres.com		0.9847		$BAF=10^{\wedge 1.31-0.385(log10Kow)}$	soil-plant	BAF calculated from Kow.	USEPA 2000
VOC	ACETONE	-0.24	USEPA 1995a		25.2581		$BAF=10^{\wedge 1.31-0.385(log10Kow)}$	soil-plant	BAF calculated from Kow.	USEPA 2000
VOC	ETHYLBENZENE	3.14	USEPA 1995a		1.2621		$BAF=10^{\wedge 1.31-0.385(log10Kow)}$	soil-plant	BAF calculated from Kow.	USEPA 2000
VOC	HEXACHLOROBUTADIENE	4.81	USEPA 1995aa		0.2872		$BAF=10^{\wedge 1.31-0.385(log10Kow)}$	soil-plant	BAF calculated from Kow.	USEPA 2000
VOC	ISOPROPYLBENZENE (CUMENE)	3.58	USEPA 1995aa		0.8545		$BAF=10^{\wedge 1.31-0.385(log10Kow)}$	soil-plant	BAF calculated from Kow.	USEPA 2000
VOC	METHYL ETHYL KETONE (2-BUTANONE)	0.28	USEPA 1995aa		15.9294		$BAF=10^{\wedge 1.31-0.385(log10Kow)}$	soil-plant	BAF calculated from Kow.	USEPA 2000
VOC	METHYLENE CHLORIDE	1.25	USEPA 1995a		6.7414		$BAF=10^{\wedge 1.31-0.385(log10Kow)}$	soil-plant	BAF calculated from Kow.	USEPA 2000
VOC	NAPHTHALENE	3.36	USEPA 1995a		1.0385		$BAF=10^{\wedge 1.31-0.385(log10Kow)}$	soil-plant	BAF calculated from Kow.	USEPA 2000
VOC	n-PROPYLBENZENE	3.69	http://esc.syrres.com		0.7751		$BAF=10^{\wedge 1.31-0.385(log10Kow)}$	soil-plant	BAF calculated from Kow.	USEPA 2000
VOC	O-XYLENE (1,2-DIMETHYLBENZENE)	3.13	USEPA 1995a		1.2734		$BAF=10^{\wedge 1.31-0.385(log10Kow)}$	soil-plant	BAF calculated from Kow.	USEPA 2000
VOC	P-CYMENE (p-ISOPROPYLTOLUENE)	4.1	http://esc.syrres.com		0.5389		$BAF=10^{\wedge 1.31-0.385(log10Kow)}$	soil-plant	BAF calculated from Kow.	USEPA 2000
VOC	TOLUENE	2.75	USEPA 1995a		1.7834		$BAF=10^{\wedge 1.31-0.385(log10Kow)}$	soil-plant	BAF calculated from Kow.	USEPA 2000
VOC	XYLENES, m & p	3.19	USEPA 1995a		1.2074		$BAF=10^{\wedge 1.31-0.385(log10Kow)}$	soil-plant	BAF calculated from Kow.	USEPA 2000
VOC	XYLENES, TOTAL	3.2	USEPA 1995a		1.1967		$BAF=10^{\wedge 1.31-0.385(log10Kow)}$	soil-plant	BAF calculated from Kow.	USEPA 2000

Notes:
All BAFs were assumed to be in dry weight.
Because the Kow values for VOCs are very low, bioaccumulation values calculated for these analytes using the Log Kow model are overestimated
For log K_{ow} for xylenes, m & p, the average of the recommended log K_{ow} values for m-xylene and p-xylene (USEPA, 1995) was used.
http://esc.syrres.com* = estimated log K_{ow} value.
http://esc.syrres.com = experimental log K_{ow} value.

TABLE 3-8

Bioaccumulation Values and Models for Earthworms for Calculation of Wildlife Exposure

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Chemical Group	Analytes	Log K_{ow}	Log K_{ow} Reference	N	BAF	Regression Model Slope (B_1)	Regression Model Intercept (B_0)	Form	Transfer Type	Comments	Reference
Inorganics											
METAL	ALUMINUM	NA	NA	20	0.043				soil-worm	median of 20 values; depurated worms	Sample et al. 1998a
METAL	ANTIMONY	NA	NA		1					Default value	
METAL	ARSENIC	NA	NA	53	--	0.706	-1.421	ln(worm) = B0+B1(ln[soil])	soil-worm	depurated worms	Sample et al. 1999
METAL	BARIUM	NA	NA	20	0.091				soil-worm	median of 20 values; depurated worms	Sample et al. 1998a
METAL	BERYLLIUM	NA	NA	12	0.045					median of 12 values, depurated worm	Sample et al. 1998a
METAL	CADMIUM	NA	NA	21	--	0.795	2.114	ln(worm) = B0+B1(ln[soil])	soil-worm	depurated worms	Sample et al. 1999
METAL	CHROMIUM, TOTAL	NA	NA	6	0.306				soil-worm	median of 67 values, depurated worms	Sample et al. 1999
METAL	COBALT	NA	NA	17	0.122					median of 17 values, depurated worm	Sample et al. 1998a
METAL	COPPER	NA	NA	197	--	0.264	1.675	ln(worm) = B0+B1(ln[soil])	soil-worm	depurated worms	Sample et al. 1999
METAL	LEAD	NA	NA	20	--	0.807	-0.218	ln(worm) = B0+B1(ln[soil])	soil-worm	depurated worms	Sample et al. 1999
METAL	MANGANESE	NA	NA	36	--	0.682	-0.809	ln(worm) = B0+B1(ln[soil])	soil-worm	depurated worms	Sample et al. 1999
METAL	MERCURY	NA	NA	30	--	0.118	-0.684	ln(worm) = B0+B1(ln[soil])	soil-worm	depurated worms	Sample et al. 1999
METAL	NICKEL	NA	NA	31	1.059				soil-worm	median of 31 values; depurated worm	Sample et al. 1998a
METAL	SELENIUM	NA	NA	13	--	0.73	-0.075	ln(worm) = B0+B1(ln[soil])	soil-worm	depurated worms	Sample et al. 1999
METAL	SILVER	NA	NA	10	2.045				soil-worm	median of 10 values, depurated worm	Sample et al. 1998a
METAL	THALLIUM	NA	NA		1					Default value	
METAL	VANADIUM	NA	NA	6	0.042				soil-worm	median of 6 values, depurated worm	Sample et al. 1998a
METAL	ZINC	NA	NA	244	--	0.328	4.449	ln(worm) = B0+B1(ln[soil])	soil-worm	depurated worms	Sample et al. 1999
Organics											
DIOXIN/FURANS	1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	7.92	http://esc.syrres.com		34.226			$BAF=10^{\wedge(logKow-0.6)}/(foc*10\wedge(0.983*logKow+0.00028))$	soil-worm	BAF calculated from Kow. F_{oc} assumed to be 0.01.	Sample et al. 1997
DIOXIN/FURANS	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN	8.2	http://esc.syrres.com		34.603			$BAF=10^{\wedge(logKow-0.6)}/(foc*10\wedge(0.983*logKow+0.00028))$	soil-worm	BAF calculated from Kow. F_{oc} assumed to be 0.01.	Sample et al. 1997
DIOXIN/FURANS	1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	7.92	http://esc.syrres.com		34.226			$BAF=10^{\wedge(logKow-0.6)}/(foc*10\wedge(0.983*logKow+0.00028))$	soil-worm	BAF calculated from Kow. F_{oc} assumed to be 0.01.	Sample et al. 1997
DIOXIN/FURANS	1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	7.92	http://esc.syrres.com*		34.226			$BAF=10^{\wedge(logKow-0.6)}/(foc*10\wedge(0.983*logKow+0.00028))$	soil-worm	BAF calculated from Kow. F_{oc} assumed to be 0.01.	Sample et al. 1997
DIOXIN/FURANS	1,2,3,4,7,8-HEXACHLORODIBENZO-p-DIOXIN	7.8	http://esc.syrres.com		34.066			$BAF=10^{\wedge(logKow-0.6)}/(foc*10\wedge(0.983*logKow+0.00028))$	soil-worm	BAF calculated from Kow. F_{oc} assumed to be 0.01.	Sample et al. 1997
DIOXIN/FURANS	1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	7.92	http://esc.syrres.com*		34.226			$BAF=10^{\wedge(logKow-0.6)}/(foc*10\wedge(0.983*logKow+0.00028))$	soil-worm	BAF calculated from Kow. F_{oc} assumed to be 0.01.	Sample et al. 1997
DIOXIN/FURANS	1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	8.21	http://esc.syrres.com*		34.617			$BAF=10^{\wedge(logKow-0.6)}/(foc*10\wedge(0.983*logKow+0.00028))$	soil-worm	BAF calculated from Kow. F_{oc} assumed to be 0.01.	Sample et al. 1997
DIOXIN/FURANS	1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	8.21	http://esc.syrres.com*		34.617			$BAF=10^{\wedge(logKow-0.6)}/(foc*10\wedge(0.983*logKow+0.00028))$	soil-worm	BAF calculated from Kow. F_{oc} assumed to be 0.01.	Sample et al. 1997
DIOXIN/FURANS	1,2,3,7,8-PENTACHLORODIBENZOFURAN	6.79	http://esc.syrres.com		32.745			$BAF=10^{\wedge(logKow-0.6)}/(foc*10\wedge(0.983*logKow+0.00028))$	soil-worm	BAF calculated from Kow. F_{oc} assumed to be 0.01.	Sample et al. 1997
DIOXIN/FURANS	1,2,3,7,8-PENTACHLORODIBENZO-p-DIOXIN	6.64	http://esc.syrres.com		32.554			$BAF=10^{\wedge(logKow-0.6)}/(foc*10\wedge(0.983*logKow+0.00028))$	soil-worm	BAF calculated from Kow. F_{oc} assumed to be 0.01.	Sample et al. 1997
DIOXIN/FURANS	2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	7.92	http://esc.syrres.com*		34.226			$BAF=10^{\wedge(logKow-0.6)}/(foc*10\wedge(0.983*logKow+0.00028))$	soil-worm	BAF calculated from Kow. F_{oc} assumed to be 0.01.	Sample et al. 1997
DIOXIN/FURANS	2,3,4,7,8-PENTACHLORODIBENZOFURAN	6.92	http://esc.syrres.com		32.912			$BAF=10^{\wedge(logKow-0.6)}/(foc*10\wedge(0.983*logKow+0.00028))$	soil-worm	BAF calculated from Kow. F_{oc} assumed to be 0.01.	Sample et al. 1997
DIOXIN/FURANS	2,3,7,8-TETRACHLORODIBENZOFURAN	6.53	http://esc.syrres.com		32.414			$BAF=10^{\wedge(logKow-0.6)}/(foc*10\wedge(0.983*logKow+0.00028))$	soil-worm	BAF calculated from Kow. F_{oc} assumed to be 0.01.	Sample et al. 1997
DIOXIN/FURANS	2,3,7,8-TETRACHLORODIBENZO-p-DIOXIN	6.53	USEPA 1995a			1.182	3.533	ln(worm) = B0+B1(ln[soil])	soil-worm	depurated worms	Sample et al. 1998a
DIOXIN/FURANS	HEPTACHLORINATED DIBENZOFURANS, (TOTAL)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DIOXIN/FURANS	HEPTACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DIOXIN/FURANS	HEXACHLORINATED DIBENZOFURANS, (TOTAL)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DIOXIN/FURANS	HEXACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DIOXIN/FURANS	OCTACHLORODIBENZOFURAN	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DIOXIN/FURANS	OCTACHLORODIBENZO-p-DIOXIN	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DIOXIN/FURANS	PENTACHLORINATED DIBENZOFURANS, (TOTAL)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DIOXIN/FURANS	PENTACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DIOXIN/FURANS	TETRACHLORINATED DIBENZOFURANS, (TOTAL)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DIOXIN/FURANS	TETRACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PEST/PCB	ALDRIN	6.5	USEPA 1995a		32.376			$BAF=10^{\wedge(logKow-0.6)}/(foc*10\wedge(0.983*logKow+0.00028))$	soil-worm	BAF calculated from Kow. F_{oc} assumed to be 0.01.	Sample et al. 1997
PEST/PCB	ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	3.8	USEPA 1995a		29.129			$BAF=10^{\wedge(logKow-0.6)}/(foc*10\wedge(0.983*logKow+0.00028))$	soil-worm	BAF calculated from Kow. F_{oc} assumed to be 0.01.	Sample et al. 1997
PEST/PCB	ALPHA-CHLORDANE	6.1	http://esc.syrres.com		31.873			$BAF=10^{\wedge(logKow-0.6)}/(foc*10\wedge(0.983*logKow+0.00028))$	soil-worm	BAF calculated from Kow. F_{oc} assumed to be 0.01.	Sample et al. 1997
PEST/PCB	BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	3.81	USEPA 1995a		29.14			$BAF=10^{\wedge(logKow-0.6)}/(foc*10\wedge(0.983*logKow+0.00028))$	soil-worm	BAF calculated from Kow. F_{oc} assumed to be 0.01.	Sample et al. 1997
PEST/PCB	DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	4.14	http://esc.syrres.com		29.519			$BAF=10^{\wedge(logKow-0.6)}/(foc*10\wedge(0.983*logKow+0.00028))$	soil-worm	BAF calculated from Kow. F_{oc} assumed to be 0.01.	Sample et al. 1997
PEST/PCB	DIELDRIN	5.37	USEPA 1995a		30.975			$BAF=10^{\wedge(logKow-0.6)}/(foc*10\wedge(0.983*logKow+0.00028))$	soil-worm	BAF calculated from Kow. F_{oc} assumed to be 0.01.	Sample et al. 1997
PEST/PCB	ENDOSULFAN SULFATE	3.66	http://esc.syrres.com		28.969			$BAF=10^{\wedge(logKow-0.6)}/(foc*10\wedge(0.983*logKow+0.00028))$	soil-worm	BAF calculated from Kow. F_{oc} assumed to be 0.01.	Sample et al. 1997
PEST/PCB	ENDRIN	5.06	USEPA 1995a		30.601			$BAF=10^{\wedge(logKow-0.6)}/(foc*10\wedge(0.983*logKow+0.00028))$	soil-worm	BAF calculated from Kow. F_{oc} assumed to be 0.01.	Sample et al. 1997
PEST/PCB	ENDRIN ALDEHYDE	4	USEPA 1995a		29.358			$BAF=10^{\wedge(logKow-0.6)}/(foc*10\wedge(0.983*logKow+0.00028))$	soil-worm	BAF calculated from Kow. F_{oc} assumed to be 0.01.	Sample et al. 1997
PEST/PCB	ENDRIN KETONE	4.99	http://esc.syrres.com*		30.518			$BAF=10^{\wedge(logKow-0.6)}/(foc*10\wedge(0.983*logKow+0.00028))$	soil-worm	BAF calculated from Kow. F_{oc} assumed to be 0.01.	Sample et al. 1997
PEST/PCB	HEPTACHLOR	6.26	USEPA 1995a		32.073			$BAF=10^{\wedge(logKow-0.6)}/(foc*10\wedge(0.983*logKow+0.00028))$	soil-worm	BAF calculated from Kow. F_{oc} assumed to be 0.01.	Sample et al. 1997
PEST/PCB	HEPTACHLOR EPOXIDE	5	USEPA 1995a		30.53			$BAF=10^{\wedge(logKow-0.6)}/(foc*10\wedge(0.983*logKow+0.00028))$	soil-worm	BAF calculated from Kow. F_{oc} assumed to be 0.01.	Sample et al. 1997

TABLE 3-8
Bioaccumulation Values and Models for Earthworms for Calculation of Wildlife Exposure
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Chemical Group	Analytes	Log K_{ow}	Log K_{ow} Reference	N	BAF	Regression Model Slope (B_1)	Regression Model Intercept (B_0)	Form	Transfer Type	Comments	Reference
PEST/PCB	METHOXYCHLOR	5.08	USEPA 1995a		30.625			$BAF=10^{\wedge(logKow-0.6)}/(foc*10\wedge(0.983*logKow+0.00028))$	soil-worm	BAF calculated from Kow. F_{oc} assumed to be 0.01.	Sample et al. 1997
PEST/PCB	p,p'-DDD	6.1	USEPA 1995a		31.873			$BAF=10^{\wedge(logKow-0.6)}/(foc*10\wedge(0.983*logKow+0.00028))$	soil-worm	BAF calculated from Kow. F_{oc} assumed to be 0.01.	Sample et al. 1997
PEST/PCB	p,p'-DDE	6.76	USEPA 1995a		32.707			$BAF=10^{\wedge(logKow-0.6)}/(foc*10\wedge(0.983*logKow+0.00028))$	soil-worm	BAF calculated from Kow. F_{oc} assumed to be 0.01.	Sample et al. 1997
PEST/PCB	p,p'-DDT	6.53	USEPA 1995a		32.414			$BAF=10^{\wedge(logKow-0.6)}/(foc*10\wedge(0.983*logKow+0.00028))$	soil-worm	BAF calculated from Kow. F_{oc} assumed to be 0.01.	Sample et al. 1997
PEST/PCB	PCB-1260 (AROCLOR 1260)	6.8	http://toxnet.nlm.nih.gov			1.361	1.41	ln(worm) = B0+B1(ln[soil])	soil-worm	depurated worms	Sample et al. 1998a
SVOC	2-METHYLNAPHTHALENE	3.86	http://esc.syrres.com		29.197			$BAF=10^{\wedge(logKow-0.6)}/(foc*10\wedge(0.983*logKow+0.00028))$	soil-worm	BAF calculated from Kow. F_{oc} assumed to be 0.01.	Sample et al. 1997
SVOC	ACENAPHTHENE	3.92	USEPA 1995a		29.266			$BAF=10^{\wedge(logKow-0.6)}/(foc*10\wedge(0.983*logKow+0.00028))$	soil-worm	BAF calculated from Kow. F_{oc} assumed to be 0.01.	Sample et al. 1997
SVOC	ACENAPHTHYLENE	3.94	http://esc.syrres.com		29.289			$BAF=10^{\wedge(logKow-0.6)}/(foc*10\wedge(0.983*logKow+0.00028))$	soil-worm	BAF calculated from Kow. F_{oc} assumed to be 0.01.	Sample et al. 1997
SVOC	ANTHRACENE	4.55	USEPA 1995a		29.996			$BAF=10^{\wedge(logKow-0.6)}/(foc*10\wedge(0.983*logKow+0.00028))$	soil-worm	BAF calculated from Kow. F_{oc} assumed to be 0.01.	Sample et al. 1997
SVOC	BENZO(a)ANTHRACENE	5.7	USEPA 1995a		31.378			$BAF=10^{\wedge(logKow-0.6)}/(foc*10\wedge(0.983*logKow+0.00028))$	soil-worm	BAF calculated from Kow. F_{oc} assumed to be 0.01.	Sample et al. 1997
SVOC	BENZO(a)PYRENE	6.11	USEPA 1995a		31.885			$BAF=10^{\wedge(logKow-0.6)}/(foc*10\wedge(0.983*logKow+0.00028))$	soil-worm	BAF calculated from Kow. F_{oc} assumed to be 0.01.	Sample et al. 1997
SVOC	BENZO(b)FLUORANTHENE	6.2	USEPA 1995a		31.998			$BAF=10^{\wedge(logKow-0.6)}/(foc*10\wedge(0.983*logKow+0.00028))$	soil-worm	BAF calculated from Kow. F_{oc} assumed to be 0.01.	Sample et al. 1997
SVOC	BENZO(g,h,i)PERYLENE	6.7	USEPA 1995a		32.63			$BAF=10^{\wedge(logKow-0.6)}/(foc*10\wedge(0.983*logKow+0.00028))$	soil-worm	BAF calculated from Kow. F_{oc} assumed to be 0.01.	Sample et al. 1997
SVOC	BENZO(k)FLUORANTHENE	6.2	USEPA 1995a		31.998			$BAF=10^{\wedge(logKow-0.6)}/(foc*10\wedge(0.983*logKow+0.00028))$	soil-worm	BAF calculated from Kow. F_{oc} assumed to be 0.01.	Sample et al. 1997
SVOC	bis(2-ETHYLHEXYL) PHTHALATE	7.3	USEPA 1995a		33.406			$BAF=10^{\wedge(logKow-0.6)}/(foc*10\wedge(0.983*logKow+0.00028))$	soil-worm	BAF calculated from Kow. F_{oc} assumed to be 0.01.	Sample et al. 1997
SVOC	CHRYSENE	5.7	USEPA 1995a		31.378			$BAF=10^{\wedge(logKow-0.6)}/(foc*10\wedge(0.983*logKow+0.00028))$	soil-worm	BAF calculated from Kow. F_{oc} assumed to be 0.01.	Sample et al. 1997
SVOC	DIBENZ(a,h)ANTHRACENE	6.69	USEPA 1995a		32.617			$BAF=10^{\wedge(logKow-0.6)}/(foc*10\wedge(0.983*logKow+0.00028))$	soil-worm	BAF calculated from Kow. F_{oc} assumed to be 0.01.	Sample et al. 1997
SVOC	DIBENZOFURAN	4.12	http://esc.syrres.com		29.496			$BAF=10^{\wedge(logKow-0.6)}/(foc*10\wedge(0.983*logKow+0.00028))$	soil-worm	BAF calculated from Kow. F_{oc} assumed to be 0.01.	Sample et al. 1997
SVOC	DI-n-BUTYL PHTHALATE	4.61	USEPA 1995a		30.067			$BAF=10^{\wedge(logKow-0.6)}/(foc*10\wedge(0.983*logKow+0.00028))$	soil-worm	BAF calculated from Kow. F_{oc} assumed to be 0.01.	Sample et al. 1997
SVOC	DI-n-OCTYLPHTHALATE	8.06	USEPA 1995a		34.414			$BAF=10^{\wedge(logKow-0.6)}/(foc*10\wedge(0.983*logKow+0.00028))$	soil-worm	BAF calculated from Kow. F_{oc} assumed to be 0.01.	Sample et al. 1997
SVOC	FLUORANTHENE	5.12	USEPA 1995a		30.673			$BAF=10^{\wedge(logKow-0.6)}/(foc*10\wedge(0.983*logKow+0.00028))$	soil-worm	BAF calculated from Kow. F_{oc} assumed to be 0.01.	Sample et al. 1997
SVOC	FLUORENE	4.21	USEPA 1995a		29.6			$BAF=10^{\wedge(logKow-0.6)}/(foc*10\wedge(0.983*logKow+0.00028))$	soil-worm	BAF calculated from Kow. F_{oc} assumed to be 0.01.	Sample et al. 1997
SVOC	INDENO(1,2,3-c,d)PYRENE	6.65	USEPA 1995a		32.566			$BAF=10^{\wedge(logKow-0.6)}/(foc*10\wedge(0.983*logKow+0.00028))$	soil-worm	BAF calculated from Kow. F_{oc} assumed to be 0.01.	Sample et al. 1997
SVOC	PHENANTHRENE	4.55	USEPA 1995a		29.996			$BAF=10^{\wedge(logKow-0.6)}/(foc*10\wedge(0.983*logKow+0.00028))$	soil-worm	BAF calculated from Kow. F_{oc} assumed to be 0.01.	Sample et al. 1997
SVOC	PYRENE	5.11	USEPA 1995a		30.661			$BAF=10^{\wedge(logKow-0.6)}/(foc*10\wedge(0.983*logKow+0.00028))$	soil-worm	BAF calculated from Kow. F_{oc} assumed to be 0.01.	Sample et al. 1997
TPH	DIESEL RANGE ORGANICS	--			1				soil-worm	Defualt Value	
TPH	GASOLINE RANGE ORGANICS	--			1				soil-worm	Defualt Value	
TPH	TOTAL PETROLEUM HYDROCARBONS	--			1				soil-worm	Defualt Value	
VOC	1,1,1-TRICHLOROETHANE	2.49	USEPA 1995a		27.673			$BAF=10^{\wedge(logKow-0.6)}/(foc*10\wedge(0.983*logKow+0.00028))$	soil-worm	BAF calculated from Kow. F_{oc} assumed to be 0.01.	Sample et al. 1997
VOC	1,2,4-TRIMETHYLBENZENE	3.63	http://esc.syrres.com		28.935			$BAF=10^{\wedge(logKow-0.6)}/(foc*10\wedge(0.983*logKow+0.00028))$	soil-worm	BAF calculated from Kow. F_{oc} assumed to be 0.01.	Sample et al. 1997
VOC	1,3,5-TRIMETHYLBENZENE (MESITYLENE)	3.42	http://esc.syrres.com		28.699			$BAF=10^{\wedge(logKow-0.6)}/(foc*10\wedge(0.983*logKow+0.00028))$	soil-worm	BAF calculated from Kow. F_{oc} assumed to be 0.01.	Sample et al. 1997
VOC	1,4-DICHLOROBENZENE	3.42	USEPA 1995a		28.699			$BAF=10^{\wedge(logKow-0.6)}/(foc*10\wedge(0.983*logKow+0.00028))$	soil-worm	BAF calculated from Kow. F_{oc} assumed to be 0.01.	Sample et al. 1997
VOC	2-CHLOROTOLUENE	3.42	http://esc.syrres.com		28.699			$BAF=10^{\wedge(logKow-0.6)}/(foc*10\wedge(0.983*logKow+0.00028))$	soil-worm	BAF calculated from Kow. F_{oc} assumed to be 0.01.	Sample et al. 1997
VOC	ACETONE	-0.24	USEPA 1995aa		24.868			$BAF=10^{\wedge(logKow-0.6)}/(foc*10\wedge(0.983*logKow+0.00028))$	soil-worm	BAF calculated from Kow. F_{oc} assumed to be 0.01.	Sample et al. 1997
VOC	ETHYLBENZENE	3.14	USEPA 1995a		28.386			$BAF=10^{\wedge(logKow-0.6)}/(foc*10\wedge(0.983*logKow+0.00028))$	soil-worm	BAF calculated from Kow. F_{oc} assumed to be 0.01.	Sample et al. 1997
VOC	HEXACHLOROBUTADIENE	4.81	USEPA 1995a		30.303			$BAF=10^{\wedge(logKow-0.6)}/(foc*10\wedge(0.983*logKow+0.00028))$	soil-worm	BAF calculated from Kow. F_{oc} assumed to be 0.01.	Sample et al. 1997
VOC	ISOPROPYLBENZENE (CUMENE)	3.58	USEPA 1995a		28.879			$BAF=10^{\wedge(logKow-0.6)}/(foc*10\wedge(0.983*logKow+0.00028))$	soil-worm	BAF calculated from Kow. F_{oc} assumed to be 0.01.	Sample et al. 1997
VOC	METHYL ETHYL KETONE (2-BUTANONE)	0.28	USEPA 1995a		25.379			$BAF=10^{\wedge(logKow-0.6)}/(foc*10\wedge(0.983*logKow+0.00028))$	soil-worm	BAF calculated from Kow. F_{oc} assumed to be 0.01.	Sample et al. 1997
VOC	METHYLENE CHLORIDE	1.25	USEPA 1995a		26.361			$BAF=10^{\wedge(logKow-0.6)}/(foc*10\wedge(0.983*logKow+0.00028))$	soil-worm	BAF calculated from Kow. F_{oc} assumed to be 0.01.	Sample et al. 1997
VOC	NAPHTHALENE	3.36	USEPA 1995a		28.631			$BAF=10^{\wedge(logKow-0.6)}/(foc*10\wedge(0.983*logKow+0.00028))$	soil-worm	BAF calculated from Kow. F_{oc} assumed to be 0.01.	Sample et al. 1997
VOC	n-PROPYLBENZENE	3.69	http://esc.syrres.com		29.003			$BAF=10^{\wedge(logKow-0.6)}/(foc*10\wedge(0.983*logKow+0.00028))$	soil-worm	BAF calculated from Kow. F_{oc} assumed to be 0.01.	Sample et al. 1997
VOC	O-XYLENE (1,2-DIMETHYLBENZENE)	3.13	USEPA 1995a		28.375			$BAF=10^{\wedge(logKow-0.6)}/(foc*10\wedge(0.983*logKow+0.00028))$	soil-worm	BAF calculated from Kow. F_{oc} assumed to be 0.01.	Sample et al. 1997
VOC	P-CYMENE (p-ISOPROPYLTOLUENE)	4.1	http://esc.syrres.com		29.473			$BAF=10^{\wedge(logKow-0.6)}/(foc*10\wedge(0.983*logKow+0.00028))$	soil-worm	BAF calculated from Kow. F_{oc} assumed to be 0.01.	Sample et al. 1997
VOC	TOLUENE	2.75	USEPA 1995a		27.956			$BAF=10^{\wedge(logKow-0.6)}/(foc*10\wedge(0.983*logKow+0.00028))$	soil-worm	BAF calculated from Kow. F_{oc} assumed to be 0.01.	Sample et al. 1997
VOC	XYLENES, m & p	3.19	USEPA 1995a		28.441			$BAF=10^{\wedge(logKow-0.6)}/(foc*10\wedge(0.983*logKow+0.00028))$	soil-worm	BAF calculated from Kow. F_{oc} assumed to be 0.01.	Sample et al. 1997
VOC	XYLENES, TOTAL	3.2	USEPA 1995a		28.452			$BAF=10^{\wedge(logKow-0.6)}/(foc*10\wedge(0.983*logKow+0.00028))$	soil-worm	BAF calculated from Kow. F_{oc} assumed to be 0.01.	Sample et al. 1997

Notes:
All BAFs were assumed to be in dry weight.
Because the Kow values for VOCs are very low, bioaccumulation values calculated for these analytes using the Log Kow model are overestimated
For log K_{ow} for xylenes, m & p, the average of the recommended log K_{ow} values for m-xylene and p-xylene (USEPA, 1995) was used.
http://esc.syrres.com* = estimated log K_{ow} value.
http://esc.syrres.com = experimental log K_{ow} value.

TABLE 3-9

Bioaccumulation Values and Models for Small Mammals for Calculation of Wildlife Exposure

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Chemical Group	Analytes	Log K_{ow}	Log K_{ow} Reference	N	BAF	Regression Model		Form	Transfer Type	Comments	Reference
						Slope (B1)	Intercept (B0)				
Inorganics											
METAL	ALUMINUM	NA		12	0.0263				soil-small mammal	median of 12 values; general UF	Sample et al. 1998b
METAL	ANTIMONY	NA			1					Default value	
METAL	ARSENIC	NA			--	0.8188	-4.847	ln(small mammal) = B0+B1(ln[soil])	soil-small mammal	General mammal model	Sample et al. 1998b
METAL	BARIUM	NA		14	0.0566				soil-small mammal	median of 14 values; general UF	Sample et al. 1998b
METAL	BERYLLIUM	NA			1					Default value	
METAL	CADMIUM	NA		99	--	0.4865	-0.4306	ln(small mammal) = B0+B1(ln[soil])	soil-small mammal	General mammal model	Sample et al. 1998b
METAL	CHROMIUM, TOTAL	NA		38	--	0.7338	-1.4599	ln(small mammal) = B0+B1(ln[soil])	soil-small mammal	General mammal model	Sample et al. 1998b
METAL	COBALT	NA		15	0.0205				soil-small mammal	median of 15 values; general UF	Sample et al. 1998b
METAL	COPPER	NA		15	--	0.1444	2.042	ln(small mammal) = B0+B1(ln[soil])	soil-small mammal	General mammal model	Sample et al. 1998b
METAL	LEAD	NA		138	--	0.4422	0.0761	ln(small mammal) = B0+B1(ln[soil])	soil-small mammal	General mammal model	Sample et al. 1998b
METAL	MANGANESE	NA		12	0.0205				soil-small mammal	median of 12 values; general UF	Sample et al. 1998b
METAL	MERCURY	NA		18	0.0543				soil-small mammal	median of 18 values; general UF	Sample et al. 1998b
METAL	NICKEL	NA		36	--	0.4658	-0.2462	ln(small mammal) = B0+B1(ln[soil])	soil-small mammal	General mammal model	Sample et al. 1998b
METAL	SELENIUM	NA		27	--	0.3764	-0.4158	ln(small mammal) = B0+B1(ln[soil])	soil-small mammal	General mammal model	Sample et al. 1998b
METAL	SILVER	NA		10	0.004				soil-small mammal	median of 10 values; general UF	Sample et al. 1998b
METAL	THALLIUM	NA			1					Default value	
METAL	VANADIUM	NA		12	0.0123				soil-small mammal	median of 12 values; general UF	Sample et al. 1998b
METAL	ZINC	NA		103	--	0.0738	4.4713	ln(small mammal) = B0+B1(ln[soil])	soil-small mammal	General mammal model	Sample et al. 1998b
Organics											
DIOXIN/FURANS	1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	7.92	http://esc.syrres.com		0.1547			BAF=10^(0.338-0.145(logKow))	diet-small mammal	BAF calculated from Kow	USEPA 2000
DIOXIN/FURANS	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN	8.2	http://esc.syrres.com		0.1409			BAF=10^(0.338-0.145(logKow))	diet-small mammal	BAF calculated from Kow	USEPA 2000
DIOXIN/FURANS	1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	7.92	http://esc.syrres.com		0.1547			BAF=10^(0.338-0.145(logKow))	diet-small mammal	BAF calculated from Kow	USEPA 2000
DIOXIN/FURANS	1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	7.92	http://esc.syrres.com		0.1547			BAF=10^(0.338-0.145(logKow))	diet-small mammal	BAF calculated from Kow	USEPA 2000
DIOXIN/FURANS	1,2,3,4,7,8-HEXACHLORODIBENZO-p-DIOXIN	7.8	http://esc.syrres.com		0.1611			BAF=10^(0.338-0.145(logKow))	diet-small mammal	BAF calculated from Kow	USEPA 2000
DIOXIN/FURANS	1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	7.92	http://esc.syrres.com		0.1547			BAF=10^(0.338-0.145(logKow))	diet-small mammal	BAF calculated from Kow	USEPA 2000
DIOXIN/FURANS	1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	8.21	http://esc.syrres.com		0.1405			BAF=10^(0.338-0.145(logKow))	diet-small mammal	BAF calculated from Kow	USEPA 2000
DIOXIN/FURANS	1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	8.21	http://esc.syrres.com		0.1405			BAF=10^(0.338-0.145(logKow))	diet-small mammal	BAF calculated from Kow	USEPA 2000
DIOXIN/FURANS	1,2,3,7,8-PENTACHLORODIBENZOFURAN	6.79	http://esc.syrres.com		0.2257			BAF=10^(0.338-0.145(logKow))	diet-small mammal	BAF calculated from Kow	USEPA 2000
DIOXIN/FURANS	1,2,3,7,8-PENTACHLORODIBENZO-p-DIOXIN	6.64	http://esc.syrres.com		0.2372			BAF=10^(0.338-0.145(logKow))	diet-small mammal	BAF calculated from Kow	USEPA 2000
DIOXIN/FURANS	2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	7.92	http://esc.syrres.com		0.1547			BAF=10^(0.338-0.145(logKow))	diet-small mammal	BAF calculated from Kow	USEPA 2000
DIOXIN/FURANS	2,3,4,7,8-PENTACHLORODIBENZOFURAN	6.92	http://esc.syrres.com		0.2161			BAF=10^(0.338-0.145(logKow))	diet-small mammal	BAF calculated from Kow	USEPA 2000
DIOXIN/FURANS	2,3,7,8-TETRACHLORODIBENZOFURAN	6.53	http://esc.syrres.com		0.1251			BAF=10^(0.338-0.145(logKow))	diet-small mammal	BAF calculated from Kow	USEPA 2000
DIOXIN/FURANS	2,3,7,8-TETRACHLORODIBENZO-p-DIOXIN	6.53	USEPA 1995a			1.0993	0.8113	ln(small mammal) = B0+B1(ln[soil])	soil-small mammal	General mammal model	Sample et al. 1998b
DIOXIN/FURANS	HEPTACHLORINATED DIBENZOFURANS, (TOTAL)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DIOXIN/FURANS	HEPTACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DIOXIN/FURANS	HEXACHLORINATED DIBENZOFURANS, (TOTAL)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DIOXIN/FURANS	HEXACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DIOXIN/FURANS	OCTACHLORODIBENZOFURAN	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DIOXIN/FURANS	OCTACHLORODIBENZO-p-DIOXIN	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DIOXIN/FURANS	PENTACHLORINATED DIBENZOFURANS, (TOTAL)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DIOXIN/FURANS	PENTACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DIOXIN/FURANS	TETRACHLORINATED DIBENZOFURANS, (TOTAL)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DIOXIN/FURANS	TETRACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PEST/PCB	ALDRIN	6.5	USEPA 1995a		0.2486			BAF=10^(0.338-0.145(logKow))	diet-small mammal	BAF calculated from Kow	USEPA 2000
PEST/PCB	ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	3.8	USEPA 1995a		0.6124			BAF=10^(0.338-0.145(logKow))	diet-small mammal	BAF calculated from Kow	USEPA 2000
PEST/PCB	ALPHA-CHLORDANE	6.1	http://esc.syrres.com		0.2841			BAF=10^(0.338-0.145(logKow))	diet-small mammal	BAF calculated from Kow	USEPA 2000
PEST/PCB	BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	3.81	USEPA 1995a		0.6103			BAF=10^(0.338-0.145(logKow))	diet-small mammal	BAF calculated from Kow	USEPA 2000
PEST/PCB	DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	4.14	http://esc.syrres.com		0.5466			BAF=10^(0.338-0.145(logKow))	diet-small mammal	BAF calculated from Kow	USEPA 2000
PEST/PCB	DIELDRIN	5.37	USEPA 1995a		0.3625			BAF=10^(0.338-0.145(logKow))	diet-small mammal	BAF calculated from Kow	USEPA 2000
PEST/PCB	ENDOSULFAN SULFATE	3.66	http://esc.syrres.com		0.6417			BAF=10^(0.338-0.145(logKow))	diet-small mammal	BAF calculated from Kow	USEPA 2000
PEST/PCB	ENDRIN	5.06	USEPA 1995a		0.4021			BAF=10^(0.338-0.145(logKow))	diet-small mammal	BAF calculated from Kow	USEPA 2000
PEST/PCB	ENDRIN ALDEHYDE	4	USEPA 1995a		0.5728			BAF=10^(0.338-0.145(logKow))	diet-small mammal	BAF calculated from Kow	USEPA 2000
PEST/PCB	ENDRIN KETONE	4.99	http://esc.syrres.com		0.4116			BAF=10^(0.338-0.145(logKow))	diet-small mammal	BAF calculated from Kow	USEPA 2000
PEST/PCB	HEPTACHLOR	6.26	USEPA 1995a		0.2693			BAF=10^(0.338-0.145(logKow))	diet-small mammal	BAF calculated from Kow	USEPA 2000
PEST/PCB	HEPTACHLOR EPOXIDE	5	USEPA 1995a		0.4102			BAF=10^(0.338-0.145(logKow))	diet-small mammal	BAF calculated from Kow	USEPA 2000
PEST/PCB	METHOXYCHLOR	5.08	USEPA 1995a		0.3994			BAF=10^(0.338-0.145(logKow))	diet-small mammal	BAF calculated from Kow	USEPA 2000
PEST/PCB	p,p'-DDD	6.1	USEPA 1995a		0.2841			BAF=10^(0.338-0.145(logKow))	diet-small mammal	BAF calculated from Kow	USEPA 2000

TABLE 3-9

Bioaccumulation Values and Models for Small Mammals for Calculation of Wildlife Exposure

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Chemical Group	Analytes	Log K_{ow}	Log K_{ow} Reference	N	BAF	Regression Model Slope (B1)	Regression Model Intercept (B0)	Form	Transfer Type	Comments	Reference
PEST/PCB	p,p'-DDE	6.76	USEPA 1995a		0.2279			BAF=10^(0.338-0.145(logKow))	diet-small mammal	BAF calculated from Kow	USEPA 2000
PEST/PCB	p,p'-DDT	6.53	USEPA 1995a		0.2461			BAF=10^(0.338-0.145(logKow))	diet-small mammal	BAF calculated from Kow	USEPA 2000
PEST/PCB	PCB-1260 (AROCLOR 1260)	6.8	http://toxnet.nlm.nih.gov		0.2249			BAF=10^(0.338-0.145(logKow))	diet-small mammal	BAF calculated from Kow	USEPA 2000
SVOC	2-METHYLNAPHTHALENE	3.86	http://esc.syrres.com		0.6002			BAF=10^(0.338-0.145(logKow))	diet-small mammal	BAF calculated from Kow	USEPA 2000
SVOC	ACENAPHTHENE	3.92	USEPA 1995a		0.5883			BAF=10^(0.338-0.145(logKow))	diet-small mammal	BAF calculated from Kow	USEPA 2000
SVOC	ACENAPHTHYLENE	3.94	http://esc.syrres.com		0.5844			BAF=10^(0.338-0.145(logKow))	diet-small mammal	BAF calculated from Kow	USEPA 2000
SVOC	ANTHRACENE	4.55	USEPA 1995a		0.4767			BAF=10^(0.338-0.145(logKow))	diet-small mammal	BAF calculated from Kow	USEPA 2000
SVOC	BENZO(a)ANTHRACENE	5.7	USEPA 1995a		0.3247			BAF=10^(0.338-0.145(logKow))	diet-small mammal	BAF calculated from Kow	USEPA 2000
SVOC	BENZO(a)PYRENE	6.11	USEPA 1995a		0.2832			BAF=10^(0.338-0.145(logKow))	diet-small mammal	BAF calculated from Kow	USEPA 2000
SVOC	BENZO(b)FLUORANTHENE	6.2	USEPA 1995a		0.2748			BAF=10^(0.338-0.145(logKow))	diet-small mammal	BAF calculated from Kow	USEPA 2000
SVOC	BENZO(g,h,i)PERYLENE	6.7	USEPA 1995a		0.2325			BAF=10^(0.338-0.145(logKow))	diet-small mammal	BAF calculated from Kow	USEPA 2000
SVOC	BENZO(k)FLUORANTHENE	6.2	USEPA 1995a		0.2748			BAF=10^(0.338-0.145(logKow))	diet-small mammal	BAF calculated from Kow	USEPA 2000
SVOC	bis(2-ETHYLHEXYL) PHTHALATE	7.3	USEPA 1995a		0.1903			BAF=10^(0.338-0.145(logKow))	diet-small mammal	BAF calculated from Kow	USEPA 2000
SVOC	CHRYSENE	5.7	USEPA 1995a		0.3247			BAF=10^(0.338-0.145(logKow))	diet-small mammal	BAF calculated from Kow	USEPA 2000
SVOC	DIBENZ(a,h)ANTHRACENE	6.69	USEPA 1995a		0.2333			BAF=10^(0.338-0.145(logKow))	diet-small mammal	BAF calculated from Kow	USEPA 2000
SVOC	DIBENZOFURAN	4.12	http://esc.syrres.com		0.5503			BAF=10^(0.338-0.145(logKow))	diet-small mammal	BAF calculated from Kow	USEPA 2000
SVOC	DI-n-BUTYL PHTHALATE	4.61	USEPA 1995a		0.4673			BAF=10^(0.338-0.145(logKow))	diet-small mammal	BAF calculated from Kow	USEPA 2000
SVOC	DI-n-OCTYLPHTHALATE	8.06	USEPA 1995a		0.1477			BAF=10^(0.338-0.145(logKow))	diet-small mammal	BAF calculated from Kow	USEPA 2000
SVOC	FLUORANTHENE	5.12	USEPA 1995a		0.3941			BAF=10^(0.338-0.145(logKow))	diet-small mammal	BAF calculated from Kow	USEPA 2000
SVOC	FLUORENE	4.21	USEPA 1995a		0.5340			BAF=10^(0.338-0.145(logKow))	diet-small mammal	BAF calculated from Kow	USEPA 2000
SVOC	INDENO(1,2,3-c,d)PYRENE	6.65	USEPA 1995a		0.2365			BAF=10^(0.338-0.145(logKow))	diet-small mammal	BAF calculated from Kow	USEPA 2000
SVOC	PHENANTHRENE	4.55	USEPA 1995a		0.4767			BAF=10^(0.338-0.145(logKow))	diet-small mammal	BAF calculated from Kow	USEPA 2000
SVOC	PYRENE	5.11	USEPA 1995a		0.3954			BAF=10^(0.338-0.145(logKow))	diet-small mammal	BAF calculated from Kow	USEPA 2000
TPH	DIESEL RANGE ORGANICS	--			1				soil-small mammal	Default value	
TPH	GASOLINE RANGE ORGANICS	--			1				soil-small mammal	Default value	
TPH	TOTAL PETROLEUM HYDROCARBONS	--			1				soil-small mammal	Default value	
VOC	1,1,1-TRICHLOROETHANE	2.49	USEPA 1995a		0.9483			BAF=10^(0.338-0.145(logKow))	diet-small mammal	BAF calculated from Kow	USEPA 2000
VOC	1,2,4-TRIMETHYLBENZENE	3.63	http://esc.syrres.com		0.6481			BAF=10^(0.338-0.145(logKow))	diet-small mammal	BAF calculated from Kow	USEPA 2000
VOC	1,3,5-TRIMETHYLBENZENE (MESITYLENE)	3.42	http://esc.syrres.com		0.6952			BAF=10^(0.338-0.145(logKow))	diet-small mammal	BAF calculated from Kow	USEPA 2000
VOC	1,4-DICHLOROBENZENE	3.42	USEPA 1995a		0.6952			BAF=10^(0.338-0.145(logKow))	diet-small mammal	BAF calculated from Kow	USEPA 2000
VOC	2-CHLOROTOLUENE	3.42	http://esc.syrres.com		0.6952			BAF=10^(0.338-0.145(logKow))	diet-small mammal	BAF calculated from Kow	USEPA 2000
VOC	ACETONE	-0.24	USEPA 1995a		2.3594			BAF=10^(0.338-0.145(logKow))	diet-small mammal	BAF calculated from Kow	USEPA 2000
VOC	ETHYLBENZENE	3.14	USEPA 1995a		0.7633			BAF=10^(0.338-0.145(logKow))	diet-small mammal	BAF calculated from Kow	USEPA 2000
VOC	HEXACHLOROBUTADIENE	4.81	USEPA 1995a		0.4371			BAF=10^(0.338-0.145(logKow))	diet-small mammal	BAF calculated from Kow	USEPA 2000
VOC	ISOPROPYLBENZENE (CUMENE)	3.58	USEPA 1995a		0.6590			BAF=10^(0.338-0.145(logKow))	diet-small mammal	BAF calculated from Kow	USEPA 2000
VOC	METHYL ETHYL KETONE (2-BUTANONE)	0.28	USEPA 1995a		1.9834			BAF=10^(0.338-0.145(logKow))	diet-small mammal	BAF calculated from Kow	USEPA 2000
VOC	METHYLENE CHLORIDE	1.25	USEPA 1995a		1.4347			BAF=10^(0.338-0.145(logKow))	diet-small mammal	BAF calculated from Kow	USEPA 2000
VOC	NAPHTHALENE	3.36	USEPA 1995a		0.7093			BAF=10^(0.338-0.145(logKow))	diet-small mammal	BAF calculated from Kow	USEPA 2000
VOC	n-PROPYLBENZENE	3.69	http://esc.syrres.com		0.6353			BAF=10^(0.338-0.145(logKow))	diet-small mammal	BAF calculated from Kow	USEPA 2000
VOC	O-XYLENE (1,2-DIMETHYLBENZENE)	3.13	USEPA 1995a		0.7659			BAF=10^(0.338-0.145(logKow))	diet-small mammal	BAF calculated from Kow	USEPA 2000
VOC	P-CYMENE (p-ISOPROPYLTOLUENE)	4.1	http://esc.syrres.com		0.5540			BAF=10^(0.338-0.145(logKow))	diet-small mammal	BAF calculated from Kow	USEPA 2000
VOC	TOLUENE	2.75	USEPA 1995a		0.8695			BAF=10^(0.338-0.145(logKow))	diet-small mammal	BAF calculated from Kow	USEPA 2000
VOC	XYLENES, m & p	3.19	USEPA 1995a		0.7507			BAF=10^(0.338-0.145(logKow))	diet-small mammal	BAF calculated from Kow	USEPA 2000
VOC	XYLENES, TOTAL	3.2	USEPA 1995a		0.7482			BAF=10^(0.338-0.145(logKow))	diet-small mammal	BAF calculated from Kow	USEPA 2000

Notes:

BAF- bioaccumulation factor

UF- uptake factor

NA- not available

All BAFs were assumed to be in dry weight.

Because the Kow values for some VOCs (e.g. acetone) are very low, bioaccumulation values calculated for these analytes using the Log Kow model are overestimated.

Used Beta BHC Kow as a surrogate for Alpha BHC Kow.

Used endrin Kow as a surrogate for Endrin ketone.

modeled BAFs for soil-to-plants (Table 3-7) and soil-to-invertebrates (Table 3-8) were multiplied by the soil concentration at each location to determine the concentration in each dietary component. These concentrations were then multiplied by the dietary proportions (0.75 plants, 0.25 invertebrates) and summed to represent the concentration in the diets of the small mammals. This concentration was then multiplied by the modeled diet-to-small mammal BAF (Table 3-9) to estimate an exposure concentration for predators. In some cases, when uptake factors were not available, a default value of 1 was used for the BAF.

3.1.3.5 Exposure Point Concentrations

Because wildlife are mobile, traveling and experiencing exposure over the range of habitats they occupy, their exposure is best described by mean chemical concentrations in areas they inhabit (Suter *et al.*, 2000). To be conservative, the 95% UCL of the mean was used to represent the exposure point concentration (EPC). Data were analyzed using the Risk Assessment Tool Set (RATS) program (CH2M HILL Risk Assessment Tool Set, Version 3.02; Release 010406). Sample sets with less than five samples automatically defaulted to a maximum value for the EPC. For sample sets greater than 5 and less than 50, the Shapiro-Wilk test was used to evaluate whether sample sets had a normal or lognormal distribution.

If the statistical test presented both distributions as true, or both distributions as false, referred to as false positives and false negatives, respectively, then the W-test statistic was calculated for each distribution to determine which distribution had the best fit. For sample sets over 50, the D'Agostina test was used to evaluate normality. False positives and false negatives in these sample sets defaulted to a normal distribution. As indicated by the outcome of the statistical tests, either the maximum or the 95% UCL of the mean for the selected distribution was used as the EPC. When the calculated 95% UCL of the mean exceeded the maximum detect, the maximum was used as the EPC. In calculating the 95% UCL of the mean, nondetects were evaluated using one-half the detection or reporting limits. Summary statistics for soils from 0 to 1 foot bgs at Building 35-752 and the AVMA can be found in Tables 2-5 and 2-7, respectively.

3.2 Ecological Effects Assessment

The ecological effects assessment consists of an evaluation of available toxicity or other effects information that can be used to relate the exposures to COPECs and adverse effects in ecological receptors. Data that can be used to evaluate ecological risks resulting from exposure to contaminants include literature-derived or site-specific single-chemical toxicity data, site-specific ambient-media toxicity tests, and site-specific field surveys (Suter *et al.*, 2000). For this assessment, only single-chemical toxicity data from literature sources were available.

3.2.1 Terrestrial Plants

Single-chemical screening-level toxicity values for terrestrial plants are presented in the ORNL plant benchmarks report (Efroymson *et al.*, 1997a). The protection of terrestrial plant communities, evaluated on the basis of a 20% reduction in growth, reproduction, or survival of plants, is an assessment endpoint in this ERA. Therefore, benchmarks used to determine risk to plants must be based on adverse effects related to these endpoints. The ORNL plant benchmarks were developed from studies that demonstrated at least a 20% reduction in the growth or yield of test plant species, which is consistent with the goals of the ERA.

Additionally, growth and yield are important to plant populations and to the ability of the vegetation to support higher trophic levels; therefore, these are ecologically significant responses (Efroymson *et al*., 1997a). If ORNL benchmarks were lacking, benchmarks were obtained from other available literature sources. Uncertainty factors were applied to benchmarks that were not representative of the assessment endpoint (≤20% reduction in growth, reproduction, or survival) as noted in Table 3-10. Benchmarks were considered representative of the assessment endpoint if the effect level was ≤20% or if a No Observed Adverse Effects Level (NOAEL) or Lowest Observed Adverse Effects Level (LOAEL) were reported directly. Terrestrial plant toxicity benchmarks are presented in Table 3-10, which also indicates COPECs that lack toxicity information. These COPECs were not evaluated and are discussed as uncertainties in Section 4.3.

3.2.2 Terrestrial Invertebrates

Single-chemical screening-level toxicity values for terrestrial invertebrates, represented primarily by earthworms, are presented in the ORNL soil invertebrate benchmarks report (Efroymson *et al*., 1997b). The protection of terrestrial invertebrate communities, evaluated on the basis of a 20% reduction in growth, reproduction, or survival of invertebrates, is an assessment endpoint in this ERA. Therefore, benchmarks used to determine risk to this receptor group must be based on adverse effects related to these endpoints. The ORNL soil invertebrate benchmarks were developed from studies that demonstrated at least a 20% reduction in the growth or survival of test invertebrate species, which is consistent with the goals of the ERA. If ORNL benchmarks were lacking, benchmarks were obtained from other available literature sources. Uncertainty factors were applied to benchmarks that were not representative of the assessment endpoint (≤20% reduction in growth, reproduction, or survival) as noted in Table 3-11. Benchmarks were considered representative of the assessment endpoint if the effect level was ≤20% or if a NOAEL or LOAEL were reported directly. Terrestrial invertebrate toxicity benchmarks are presented in Table 3-11, which also indicates COPECs that lack toxicity information. These COPECs were not evaluated and are discussed as uncertainties in Section 4.3.

3.2.3 Birds and Mammals

Single-chemical toxicity data for birds and mammals consist of NOAEL or LOAEL toxicity reference values (TRVs) derived from toxicity studies reported in the literature. The benchmarks for birds and mammals were obtained from several sources, including wildlife toxicity reviews, literature searches, wildlife benchmarks developed at ORNL (Sample *et al*., 1996), the USEPA Region IX Biological Technical Assistance Group (BTAG) TRVs developed for the U.S. Navy (EFA West, 1998), and a *Review of the Navy-EPA Region 9 BTAG Toxicity*

Reference Values for Wildlife (CH2M HILL, 2000). Appropriate studies were selected based on several criteria:

- Studies were of chronic exposures or exposures during a critical life-stage (e.g., reproduction).
- Exposure was oral through food, to ensure data were representative of oral exposures expected for wildlife in the field.

TABLE 3-10
Terrestrial Plant Toxicological Benchmarks (mg/kg)
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Chemical Group	Analytes	Plant Benchmark	Endpoint	Uncertainty Factor	Final Benchmark	Reference
DIOXIN/FURANS	1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN					
DIOXIN/FURANS	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN					
DIOXIN/FURANS	1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN					
DIOXIN/FURANS	1,2,3,4,7,8-HEXACHLORODIBENZOFURAN					
DIOXIN/FURANS	1,2,3,4,7,8-HEXACHLORODIBENZO-p-DIOXIN					
DIOXIN/FURANS	1,2,3,6,7,8-HEXACHLORODIBENZOFURAN					
DIOXIN/FURANS	1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN					
DIOXIN/FURANS	1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN					
DIOXIN/FURANS	1,2,3,7,8-PENTACHLORODIBENZOFURAN					
DIOXIN/FURANS	1,2,3,7,8-PENTACHLORODIBENZO-p-DIOXIN					
DIOXIN/FURANS	2,3,4,6,7,8-HEXACHLORODIBENZOFURAN					
DIOXIN/FURANS	2,3,4,7,8-PENTACHLORODIBENZOFURAN					
DIOXIN/FURANS	2,3,7,8-TETRACHLORODIBENZOFURAN					
DIOXIN/FURANS	2,3,7,8-TETRACHLORODIBENZO-p-DIOXIN					
DIOXIN/FURANS	HEPTACHLORINATED DIBENZOFURANS, (TOTAL)					
DIOXIN/FURANS	HEPTACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)					
DIOXIN/FURANS	HEXACHLORINATED DIBENZOFURANS, (TOTAL)					
DIOXIN/FURANS	HEXACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)					
DIOXIN/FURANS	OCTACHLORODIBENZOFURAN					
DIOXIN/FURANS	OCTACHLORODIBENZO-p-DIOXIN					
DIOXIN/FURANS	PENTACHLORINATED DIBENZOFURANS, (TOTAL)					
DIOXIN/FURANS	PENTACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)					
DIOXIN/FURANS	TETRACHLORINATED DIBENZOFURANS, (TOTAL)					
DIOXIN/FURANS	TETRACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)					
DIOXIN/FURANS	Total TCDD-Bird					
DIOXIN/FURANS	Total TCDD-Mammal					
METAL	ALUMINUM	50	10th percentile of LOAEL	1	50	Efroymson et al. 1997a
METAL	ARSENIC	10	10th percentile of LOAEL	1	10	Efroymson et al. 1997a
METAL	BARIUM	500	10th percentile of LOAEL	1	500	Efroymson et al. 1997a
METAL	BERYLLIUM	10	10th percentile of LOAEL	1	10	Efroymson et al. 1997a
METAL	CHROMIUM, TOTAL	1	10th percentile of LOAEL	1	1	Efroymson et al. 1997a
METAL	LEAD	50	10th percentile of LOAEL	1	50	Efroymson et al. 1997a
METAL	MANGANESE	500	10th percentile of LOAEL	1	500	Efroymson et al. 1997a
METAL	NICKEL	30	10th percentile of LOAEL	1	30	Efroymson et al. 1997a
METAL	SELENIUM	1	10th percentile of LOAEL	1	1	Efroymson et al. 1997a
METAL	VANADIUM	2	10th percentile of LOAEL	1	2	Efroymson et al. 1997a
METAL	ZINC	50	10th percentile of LOAEL	1	50	Efroymson et al. 1997a
PEST/PCB	ALDRIN	50	toxic	4	12.5	ICF 1989 (toxic - /4)
PEST/PCB	ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	12.5	toxic	4	3.125	ICF 1989 (toxic - /4)
PEST/PCB	ALPHA-CHLORDANE					
PEST/PCB	BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	1000	toxic	4	250	ICF 1989 (toxic - /4)
PEST/PCB	DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	12.5	toxic	4	3.125	ICF 1989 (toxic - /4)
PEST/PCB	DIELDRIN	12.5	toxic	4	3.125	ICF 1989 (toxic - /4)
PEST/PCB	ENDOSULFAN SULFATE					

TABLE 3-10
Terrestrial Plant Toxicological Benchmarks (mg/kg)
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Chemical Group	Analytes	Plant Benchmark	Endpoint	Uncertainty Factor	Final Benchmark	Reference
PEST/PCB	ENDRIN					
PEST/PCB	ENDRIN ALDEHYDE					
PEST/PCB	ENDRIN KETONE					
PEST/PCB	HEPTACHLOR	1000	chronic NOAEL	1	1000	USEPA 1999b (chronic NOAEL)
PEST/PCB	HEPTACHLOR EPOXIDE	1000	chronic NOAEL	1	1000	USEPA 1999b (chronic NOAEL)
PEST/PCB	METHOXYCHLOR					
PEST/PCB	p,p'-DDD	12.5	toxic	4	3.125	ICF 1989 (toxic - /4)
PEST/PCB	p,p'-DDE	12.5	toxic	4	3.125	ICF 1989 (toxic - /4)
PEST/PCB	p,p'-DDT	12.5	toxic	4	3.125	ICF 1989 (toxic - /4)
PEST/PCB	PCB-1260 (AROCLOR 1260)	40	10th percentile of LOAEL	1	40	Efroymson et al. 1997a
SVOC	2,4-DIMETHYLPHENOL					
SVOC	2-METHYLNAPHTHALENE					
SVOC	2-METHYLPHENOL (o-CRESOL)					
SVOC	4-CHLORO-3-METHYLPHENOL					
SVOC	ACENAPHTHENE	20	10th percentile of LOAEL	1	20	Efroymson et al. 1997a
SVOC	ACENAPHTHYLENE					
SVOC	ANTHRACENE					
SVOC	BENZO(a)ANTHRACENE					
SVOC	BENZO(a)PYRENE	3.3	chronic NOEC	1	3.3	CCME 1999b (NOEC)
SVOC	BENZO(b)FLUORANTHENE					
SVOC	BENZO(g,h,i)PERYLENE					
SVOC	BENZO(k)FLUORANTHENE					
SVOC	bis(2-ETHYLHEXYL) PHTHALATE					
SVOC	CHRYSENE					
SVOC	DIBENZ(a,h)ANTHRACENE					
SVOC	DIBENZOFURAN					
SVOC	DI-n-BUTYL PHTHALATE	200	10th percentile of LOAEL	1	200	Efroymson et al. 1997a
SVOC	DI-n-OCTYLPHTHALATE					
SVOC	FLUORANTHENE					
SVOC	FLUORENE					
SVOC	INDENO(1,2,3-c,d)PYRENE					
SVOC	PHENANTHRENE					
SVOC	PHENOL	70	10th percentile of LOAEL	1	70	Efroymson et al. 1997a
SVOC	PYRENE					
TPH	DIESEL RANGE ORGANICS					
TPH	GASOLINE RANGE ORGANICS					
TPH	TPH					
VOC	1,1,1-TRICHLOROETHANE					
VOC	1,2,3-TRICHLOROBENZENE					
VOC	1,2,4-TRIMETHYLBENZENE					
VOC	1,3,5-TRIMETHYLBENZENE (MESITYLENE)					
VOC	1,4-DICHLOROBENZENE					
VOC	2-CHLOROTOLUENE					
VOC	ACETONE	503	toxic	4	125.75	PHYTOTOX 1993 (toxic - /4)

TABLE 3-10
Terrestrial Plant Toxicological Benchmarks (mg/kg)
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Chemical Group	Analytes	Plant Benchmark	Endpoint	Uncertainty Factor	Final Benchmark	Reference
VOC	BENZENE	24	LC25 - seed emergence	1	24	CCME 1999a (LC25)
VOC	ETHYLBENZENE	6	LC25 - seed emergence	1	6	CCME 1999c (LC25)
VOC	HEXACHLOROBUTADIENE					
VOC	IODOMETHANE (METHYL IODIDE)					
VOC	ISOPROPYLBENZENE (CUMENE)					
VOC	METHYL ETHYL KETONE (2-BUTANONE)					
VOC	METHYLENE CHLORIDE	2722	toxic	4	680.5	PHYTOTOX 1993 (toxic - /4)
VOC	NAPHTHALENE	3	LC25 - seed emergence	1	3	CCME 1999d (LC25)
VOC	n-BUTYLBENZENE					
VOC	n-PROPYLBENZENE					
VOC	O-XYLENE (1,2-DIMETHYLBENZENE)					
VOC	P-CYMENE (p-ISOPROPYLTOLUENE)					
VOC	STYRENE	300	10th percentile of LOAEL	1	300	Efroymson et al. 1997a
VOC	TETRACHLOROETHYLENE(PCE)					
VOC	TOLUENE	7	LC25 - seed emergence	1	7	CCME 1999e (LC25)
VOC	TRICHLOROETHYLENE (TCE)					
VOC	XYLENES, m & p	5	LC25 - seed emergence	1	5	CCME 1999f (LC25)
VOC	XYLENES, TOTAL	5	LC25 - seed emergence	1	5	CCME 1999f (LC25)

Notes

[a] Toxic endpoints were assumed to be synonomous with a subchronic LOAEL and an uncertainty factor of 4 was applied to these endpoints to convert from a subchronic LOAEL to a chronic LOAEL based on the Tri-Service Procedural Guidelines for Ecological Risk

TABLE 3-11
Terrestrial Invertebrate Toxicological Benchmarks (mg/kg)
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Chemical Group	Analytes	Invert Benchmark	Endpoint	Uncertainty Factor[a]	Final Benchmark	Reference
DIOXIN/FURANS	1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN					
DIOXIN/FURANS	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN					
DIOXIN/FURANS	1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN					
DIOXIN/FURANS	1,2,3,4,7,8-HEXACHLORODIBENZOFURAN					
DIOXIN/FURANS	1,2,3,4,7,8-HEXACHLORODIBENZO-p-DIOXIN					
DIOXIN/FURANS	1,2,3,6,7,8-HEXACHLORODIBENZOFURAN					
DIOXIN/FURANS	1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN					
DIOXIN/FURANS	1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN					
DIOXIN/FURANS	1,2,3,7,8-PENTACHLORODIBENZOFURAN					
DIOXIN/FURANS	1,2,3,7,8-PENTACHLORODIBENZO-p-DIOXIN					
DIOXIN/FURANS	2,3,4,6,7,8-HEXACHLORODIBENZOFURAN					
DIOXIN/FURANS	2,3,4,7,8-PENTACHLORODIBENZOFURAN					
DIOXIN/FURANS	2,3,7,8-TETRACHLORODIBENZOFURAN					
DIOXIN/FURANS	2,3,7,8-TETRACHLORODIBENZO-p-DIOXIN	5	chronic NOAEL	1	5	Eisler 2000
DIOXIN/FURANS	HEPTACHLORINATED DIBENZOFURANS, (TOTAL)					
DIOXIN/FURANS	HEPTACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)					
DIOXIN/FURANS	HEXACHLORINATED DIBENZOFURANS, (TOTAL)					
DIOXIN/FURANS	HEXACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)					
DIOXIN/FURANS	OCTACHLORODIBENZOFURAN					
DIOXIN/FURANS	OCTACHLORODIBENZO-p-DIOXIN					
DIOXIN/FURANS	PENTACHLORINATED DIBENZOFURANS, (TOTAL)					
DIOXIN/FURANS	PENTACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)					
DIOXIN/FURANS	TETRACHLORINATED DIBENZOFURANS, (TOTAL)					
DIOXIN/FURANS	TETRACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)					
DIOXIN/FURANS	Total TCDD-Bird					
DIOXIN/FURANS	Total TCDD-Mammal					
METAL	ALUMINUM					
METAL	ARSENIC	60	10th percentile of the LOAEL	1	60	Efroymson et al. 1997b
METAL	BARIUM	85	LOEC - juvenile production	1	85	Phillips et al. 2001 (LOEC)
METAL	BERYLLIUM					
METAL	CHROMIUM, TOTAL	0.4	10th percentile of the LOAEL	1	0.4	Efroymson et al. 1997b
METAL	LEAD	500	10th percentile of the LOAEL	1	500	Efroymson et al. 1997b
METAL	MANGANESE					
METAL	NICKEL	200	10th percentile of the LOAEL	1	200	Efroymson et al. 1997b
METAL	SELENIUM	70	10th percentile of the LOAEL	1	70	Efroymson et al. 1997b
METAL	VANADIUM					
METAL	ZINC	200	10th percentile of the LOAEL	1	200	Efroymson et al. 1997b
PEST/PCB	ALDRIN					
PEST/PCB	ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)					
PEST/PCB	ALPHA-CHLORDANE					
PEST/PCB	BETA BHC (BETA HEXACHLOROCYCLOHEXANE)					
PEST/PCB	DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)					
PEST/PCB	DIELDRIN					
PEST/PCB	ENDOSULFAN SULFATE					

TABLE 3-11
Terrestrial Invertebrate Toxicological Benchmarks (mg/kg)
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Chemical Group	Analytes	Invert Benchmark	Endpoint	Uncertainty Factor[a]	Final Benchmark	Reference
PEST/PCB	ENDRIN					
PEST/PCB	ENDRIN ALDEHYDE					
PEST/PCB	ENDRIN KETONE					
PEST/PCB	HEPTACHLOR					
PEST/PCB	HEPTACHLOR EPOXIDE					
PEST/PCB	METHOXYCHLOR					
PEST/PCB	p,p'-DDD					
PEST/PCB	p,p'-DDE					
PEST/PCB	p,p'-DDT					
PEST/PCB	PCB-1260 (AROCLOR 1260)	366	adult survival	4	91.5	Rhett et al. 1988 (total PCBs)
SVOC	2,4-DIMETHYLPHENOL					
SVOC	2-METHYLNAPHTHALENE					
SVOC	2-METHYLPHENOL (o-CRESOL)					
SVOC	4-CHLORO-3-METHYLPHENOL					
SVOC	ACENAPHTHENE	31	EC10 - reproduction	1	31	Sverdrup et al. 2002 (EC10)
SVOC	ACENAPHTHYLENE	23	EC10 - reproduction	1	23	Sverdrup et al. 2002 (EC10)
SVOC	ANTHRACENE	5	EC10 - reproduction	1	5	Sverdrup et al. 2002 (EC10)
SVOC	BENZO(a)ANTHRACENE	>980	EC10 - reproduction	1	980	Sverdrup et al. 2002 (EC10)
SVOC	BENZO(a)PYRENE	>840	EC10 - reproduction	1	840	Sverdrup et al. 2002 (EC10)
SVOC	BENZO(b)FLUORANTHENE	>360	EC10 - reproduction	1	360	Sverdrup et al. 2002 (EC10)
SVOC	BENZO(g,h,i)PERYLENE					
SVOC	BENZO(k)FLUORANTHENE	>560	EC10 - reproduction	1	560	Sverdrup et al. 2002 (EC10)
SVOC	bis(2-ETHYLHEXYL) PHTHALATE					
SVOC	CHRYSENE	>1030	EC10 - reproduction	1	1030	Sverdrup et al. 2002 (EC10)
SVOC	DIBENZ(a,h)ANTHRACENE	>780	EC10 - reproduction	1	780	Sverdrup et al. 2002 (EC10)
SVOC	DIBENZOFURAN	14	NOEC - reproduction	1	14	Sverdrup et al. 2001 (NOEC)
SVOC	DI-n-BUTYL PHTHALATE					
SVOC	DI-n-OCTYLPHTHALATE					
SVOC	FLUORANTHENE	47	NOEC - reproduction	1	47	Sverdrup et al. 2001 (EC50)
SVOC	FLUORENE	30	10th percentile of the LOAEL	1	30	Efroymson et al. 1997b
SVOC	INDENO(1,2,3-c,d)PYRENE	>910	EC10 - reproduction	1	910	Sverdrup et al. 2002 (EC10)
SVOC	PHENANTHRENE	21	NOEC - reproduction	1	21	Sverdrup et al. 2001 (EC50)
SVOC	PHENOL	30	10th percentile of the LOAEL	1	30	Efroymson et al. 1997b
SVOC	PYRENE	13	NOEC - reproduction	1	13	Sverdrup et al. 2001 (EC50)
TPH	DIESEL RANGE ORGANICS					
TPH	GASOLINE RANGE ORGANICS					
TPH	TPH					
VOC	1,1,1-TRICHLOROETHANE					
VOC	1,2,3-TRICHLOROBENZENE	20	10th percentile of the LOAEL	1	20	Efroymson et al. 1997b
VOC	1,2,4-TRIMETHYLBENZENE					
VOC	1,3,5-TRIMETHYLBENZENE (MESITYLENE)					
VOC	1,4-DICHLOROBENZENE	20	10th percentile of the LOAEL	1	20	Efroymson et al. 1997b
VOC	2-CHLOROTOLUENE					
VOC	ACETONE					

TABLE 3-11
Terrestrial Invertebrate Toxicological Benchmarks (mg/kg)
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Chemical Group	Analytes	Invert Benchmark	Endpoint	Uncertainty Factor[a]	Final Benchmark	Reference
VOC	BENZENE	161	LC25	1	161	CCME 1999a (LC25)
VOC	ETHYLBENZENE	113	LC25	1	113	CCME 1999c (LC25)
VOC	HEXACHLOROBUTADIENE					
VOC	IODOMETHANE (METHYL IODIDE)					
VOC	ISOPROPYLBENZENE (CUMENE)					
VOC	METHYL ETHYL KETONE (2-BUTANONE)					
VOC	METHYLENE CHLORIDE					
VOC	NAPHTHALENE	20	EC10 - reproduction	1	20	Sverdrup et al. 2002 (EC10)
VOC	n-BUTYLBENZENE					
VOC	n-PROPYLBENZENE					
VOC	O-XYLENE (1,2-DIMETHYLBENZENE)					
VOC	P-CYMENE (p-ISOPROPYLTOLUENE)					
VOC	STYRENE					
VOC	TETRACHLOROETHYLENE(PCE)					
VOC	TOLUENE	44	LC25	1	44	CCME 1999e (LC25)
VOC	TRICHLOROETHYLENE (TCE)					
VOC	XYLENES, m & p	56	LC25	1	56	CCME 1999f (LC25)
VOC	XYLENES, TOTAL	56	LC25	1	56	CCME 1999f (LC25)

Notes

[a] The "adult survival" endpoint was assumed to be synonomous with a subchronic LOAEL and an uncertainty factor of 4 was applied to this endpoint to convert from a subchronic LOAEL to a chronic LOAEL based on the Tri-Service Procedur Guidelines for Ecological Risk Assessments (Wentsel et al. 1996). All other endpoints were considered synonomous with a chronic LOAEL or NOAEL.

- Emphasis was placed on studies of reproductive impacts, to ensure relevancy to population-level effects.
- Studies presented adequate information to evaluate and determine the magnitude of exposure and effects (or no-effects concentrations).

Multiple bird or mammal toxicity studies were available for some COPECs. Toxicity studies were selected to serve as the primary toxicity value if exposure was chronic or during reproduction; the dosing regime was sufficient to identify both an NOAEL and an LOAEL; and the study considered ecologically relevant effects (e.g., reproduction, mortality, growth). If multiple studies for a given COPEC met these criteria, the study generating the lowest reliable toxicity value was selected to be the primary toxicity value. Primary toxicity values were used for all evaluations of the exposure estimates and are highlighted in Table 3-12.

NOAEL and LOAEL TRVs for avian and mammalian receptors were estimated from literature data using allometric scaling methods presented in Sample *et al*. (1996) and Sample and Arenal (1999). Using the following equation, no (or lowest) observed adverse effects levels for wildlife ($NOAEL_w$ or $LOAEL_w$) were determined for each species:

$$NOAEL_w = NOAEL_t\left(\frac{BW_t}{BW_w}\right)^{1-b} \text{ or } LOAEL_w = LOAEL_t\left(\frac{BW_t}{BW_w}\right)^{1-b}$$

Where:

$NOAEL_t$ = the NOAEL for a test species (obtained from the literature)

$LOAEL_t$ = the LOAEL for a test species (obtained from the literature)

BW_t and BW_w = the body weights (in kg) for the test and wildlife species, respectively

b = the class-specific allometric scaling factor

Scaling factors of 0.94 and 1.2 were applied for mammals and birds, respectively (Sample and Arenal, 1999). The receptor-specific NOAELs and LOAELs are presented in Table 3-13.

Some COPECs lacked toxicity data necessary to develop bird and/or mammal TRVs. These COPECs were not evaluated and are discussed as uncertainties in Section 4.3.

TABLE 3-12

Bird and Mammal Toxicological Benchmarks

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Chemical Group	Analyte	Analyte/surrogate	Study	Test species	Body Weight (kg)	Dose route	Endpoint	Endpoint 2	Duration	Test Duration	LD50	NOAEL (mg/kg/d)	LOAEL (mg/kg/d)	UF NOAEL	UF LOAEL	Normalized NOAEL	Normalized LOAEL	Notes
Birds																		
METAL	Aluminum	NA	Carriere et al. 1986	ringed dove	0.155		reproduction	reproduction	4 months		--	109.7	--	1	--	109.7	--	
METAL	Barium	Barium Hydroxide	Johnson et al. 1960	1-day old chicks	0.121	Oral Diet	survivorship	% survival	4 wks (not critical lifestage)	subchronic	--	208.26	416.53	0.1	0.1	20.83	41.65	
METAL	Beryllium	NA	NA	NA	NA		NA	NA	NA		--	--	--	--	--	--	--	
METAL	Chromium	$CrK(SO_4)^2$	Haseltine et al. 1985	black duck	1.25	Oral Diet	reproduction	duckling survival	10 months	chronic	--	1	5	1	1	1	5	
METAL	Lead	Lead Acetate	Edens et al. 1976	*Coturnix japonica*	0.15	Oral Diet	reproduction	eggs/hen	12 weeks (critical life stage)	chronic	--	0.014	--	1	--	0.014	--	EFA West 1998 (BTAG)
METAL	Lead	Lead Acetate	Edens and Garlich 1983	*Coturnix japonica*	0.8	Oral Diet	reproduction	eggs/hen	5 weeks (critical life stage)	chronic	--	NA	8.75	--	1	--	8.75	EFA West 1998 (BTAG)
METAL	Lead	Lead Acetate	Edens and Garlich 1983	*Coturnix japonica*	0.8	Oral Diet	reproduction	eggs/hen	5 weeks (critical life stage)	chronic	--	0.19	1.78	1	1	0.19	1.78	CH2M HILL (2000) ALT-BTAG
METAL	Nickel	Nickel sulfate	Cain and Pafford 1981	mallard	0.782	Oral Diet	physiological	tremors, joint edema	90 days	chronic	--	17.6	77.4	1	1	17.6	77.4	CH2M HILL 2000 (ALT BTAG)
METAL	Nickel	Nickel sulfate	Cain and Pafford 1981	mallard	0.58	Oral Diet	physiological	tremors, joint edema	90 days	chronic	--	1.38	55.3	1	1	1.38	55.3	EFA West 1998 (BTAG)
METAL	Nickel	Nickel sulfate	Weber and Reid 1968	chicks	0.45		growth	growth	4 weeks	chronic	--	25.3	42.2	1	1	25.3	42.2	
METAL	Selenium	Selenomethionine	Heinz et al. 1989	mallard	1	Oral Diet	reproduction	impaired reproduction	100 days	chronic	--	0.23	0.93	1	1	0.23	0.93	EFA West (1998) BTAG
METAL	Selenium	Selenomethionine	Heinz et al. 1989	mallard	1	Oral Diet	reproduction	impaired reproduction	100 days	chronic	--	0.4	0.8	1	1	0.4	0.8	CH2M HILL (2000) ALT-BTAG
METAL	Selenium	Selenomethionine	Wiemeyer and Hoffman 1996	screech owl	0.2	Oral Diet	reproduction	reproduction	13.7 weeks	chronic	--	0.44	1.5	1	1	0.44	1.5	
METAL	Selenium	Selenomethionine	Smith et al. 1988	black-crowned night-heron	0.883	Oral Diet	reproduction	reproduction	94 days through reproduction	chronic	--	1.8	--	1	--	1.8	--	
METAL	Selenium	Sodium selenite	Heinz et al. 1987	mallard	1	Oral Diet	reproduction	ducklings/hen	78 day	chronic	--	0.5	1					
METAL	Vanadium	Vanadyl sulfate	White and Dieter 1978	mallard	1.17	Oral Diet	mortality, growth	mortality, body weight	12 wk	chronic	.	11.4	--	1	--	11.4	--	
METAL	Zinc	Zinc carbonate	Gasaway and Buss 1972	mallard	0.955	Oral Diet	survivorship	% survival	60 days	Subchronic	--	17.2	172	1	1	17.2	172	EFA West (1998) BTAG
METAL	Zinc	Zinc carbonate	Gasaway and Buss 1972	mallard	0.955	Oral Diet	survivorship	% survival	60 days	Subchronic	--	--	10.89	0.1	1	1.089	10.89	
METAL	Zinc	Zinc oxide	Hussein et al. 1988	Japanese quail	0.15	Oral Diet	reproduction	egg production	7 d exposure,8 wk obs.	Chronic	--	NA	1690	0.1	1	169	1690	
METAL	Zinc	Zinc oxide	Palafox and Ho-A 1980	chicken	1.935	Oral Diet	reproduction	egg production	5 d exposure, 12 wk obs.	Chronic	--	NA	1271	0.1	1	127.1	1271	
METAL	Zinc	Zinc sulfate	Stahl et al. 1990	chicken	1.766	Oral Diet	reproduction	egg hatchability	44 wk	chronic	--	14.5	131	1	1	14.5	131	CH2M HILL (2000) ALT-BTAG
DIOXIN/FURAN	TCDD	2,3,7,8 - Tetrachloro dibenzodioxin	Nosek et al. 1992	ring-necked pheasant	1	Intraperitoneal Inj	reproduction	egg production and hatchability	10 wks	chronic		0.000014	0.00014	1	1	0.000014	0.00014	
DIOXIN/FURAN	TDBF	2,3,7,8-Tetrachloro dibenzofuran	McKinney et al. 1976	1-day old chicks	0.121	Oral Diet	mortality, growth	mortality, body weight	21 d	subchronic			0.0001	0.01	0.1	0.000001	0.00001	
PEST/PCB	Aldrin	NA	USFWS 1984	northern bobwhite	NR	Oral	survivorship	LD50	single dose	acute	0.73	--	--	0.01	--	0.0073	--	
PEST/PCB	Alpha- BHC	Gamma BHC as surrogate	Chakravarty and Lahiri 1986	mallard	1	Oral Intubation	reproduction	egg shell thickness, egg production	8 wks (critical life stage)	chronic	--	5.71	8.57	1	1	5.71	8.57	CH2M HILL (2000) ALT-BTAG
PEST/PCB	Alpha-Chlordane	Chlordane as surrogate	Stickel et al. 1983	red-winged blackbird	0.064	Oral Diet	survivorship	% survival	84 d (>10 wks)	chronic		2.14	10.70	1	1	2.14	10.70	
PEST/PCB	Beta-BHC	Gamma BHC as surrogate	Chakravarty and Lahiri 1986; Chakravarty et al. 1986	mallard	1	Oral Intubation	reproduction	egg shell thickness, egg production	8 wks (critical life stage)	chronic	--	5.71	8.57	1	1	5.71	8.57	CH2M HILL (2000) ALT-BTAG
PEST/PCB	DDD	DDT as surrogate	USEPA 1995b	mallard	1		reproduction	reproduction	2 years	chronic	--	NA	0.6	--	1	--	0.6	
PEST/PCB	DDD	DDT as surrogate	Anderson et al. 1975 and 1977	brown pelican	3.5	Oral Diet	reproduction	fledgling rate 30% below needed for stable population	5 years	chronic		0.009	NA	--	1	0.009	--	BTAG and CH2M HILL 2000 (ALT BTAG)
PEST/PCB	DDE	DDT as surrogate	USEPA 1995b	mallard	1		reproduction	reproduction	2 years	chronic	--	NA	0.6	--	1	--	0.6	
PEST/PCB	DDE	DDT as surrogate	Anderson et al. 1975 and 1977	brown pelican	3.5	Oral Diet	reproduction	fledgling rate 30% below needed for stable population	5 years	chronic		0.009	NA	--	1	0.009	--	BTAG and CH2M HILL 2000 (ALT BTAG)
PEST/PCB	DDT	NA	USEPA 1995b	mallard	1		reproduction	reproduction	2 years	chronic	--	NA	0.6	--	1	--	0.6	
PEST/PCB	DDT	NA	Anderson et al. 1975 and 1977	brown pelican	3.5	Oral Diet	reproduction	fledgling rate 30% below needed for stable population	5 years	chronic		0.009	NA	--	1	0.009	--	BTAG and CH2M HILL 2000 (ALT BTAG)
PEST/PCB	Delta-BHC	Gamma BHC as surrogate	Chakravarty and Lahiri 1986; Chakravarty et al. 1986	mallard	1	Oral Intubation	reproduction	egg shell thickness, egg production	8 wks (critical life stage)	chronic	--	5.71	8.57	1	1	5.71	8.57	CH2M HILL (2000) ALT-BTAG
PEST/PCB	Dieldrin	NA	Mendenhall et al. 1983	barn owl	0.466	Oral Diet	reproduction	reproductive success	2 years	chronic		0.077	NA	1	--	0.077	--	
PEST/PCB	Endosulfan Sulfate	Endosulfan as surrogate	Abiola 1992	gray partridge	0.4	Oral Diet	reproduction	NOAEL	4 wks (during critical lifestage)	chronic		10	NA	1	--	10	--	
PEST/PCB	Endrin	NA	Fleming et al. 1982	screech owl	0.181	Oral Diet	reproduction	egg production, hatching success	>83 days	chronic		--	0.1	0.1	1	0.01	0.1	
PEST/PCB	Endrin	NA	Spann et al. 1986	mallard	1.15	Oral Diet	reproduction	NOAEL	>200 days	chronic		0.3	--	1	--	0.3	--	
PEST/PCB	Endrin Aldehyde	Endrin as surrogate	Spann et al. 1986	mallard	1.15	Oral Diet	reproduction	NOAEL	>200 days	chronic		0.3	--	1	--	0.3	--	
PEST/PCB	Endrin Ketone	Endrin as surrogate	Spann et al. 1986	mallard	1.15	Oral Diet	reproduction	NOAEL	>200 days	chronic		0.3	--	1	--	0.3	--	
PEST/PCB	Heptachlor	NA	Hill and Camardese 1986	quail	NR	Oral	mortality	% survival	5 day	acute		6.5	--	0.01	--	0.065	--	
PEST/PCB	Heptachlor Epoxide	Heptachlor as surrogate	Hill and Camardese 1986	quail	NR	Oral	mortality	% survival	5 day	acute		6.5	--	0.01	--	0.065	--	
PEST/PCB	Methoxychlor	NA	NA	NA	NA		NA	NA	NA		--	--	--	--	--	--	--	
PEST/PCB	PCBs (Aroclor 1260)	Aroclor 1248 as surrogate	McLane and Hughes 1980	screech owl	0.181	Oral Diet	reproduction	reproductive success	2 breeding seasons	chronic		0.41	NA	1	--	0.41	--	
PEST/PCB	PCBs (Aroclor 1260)	Aroclor 1254 as surrogate	Platonow and Reinhart 1973	chicken	1.5	Oral Diet	reproduction	reduced egg production	39 wks	chronic			0.9	0.1	1	0.09	0.9	BTAG and CH2M HILL 2000 (ALT BTAG)
PEST/PCB	PCBs (Aroclor 1260)	Aroclor 1242 as surrogate	Britton and Huston 1973	chicken	1.5	Oral Diet	reproduction	reduced egg hatchability	6 wks	chronic	--	0.3	0.6	1	1	0.3	0.6	
SVOC	2-Methylnaphthalene	Aromatic Hydrocarbon Mixture	Patton and Dieter 1980	mallard	1.23	Oral Diet	growth	body weight	7 mo	chronic	--	--	325	0.1	1	32.5	325	
SVOC	Acenaphthene	Aromatic Hydrocarbon Mixture	Patton and Dieter 1980	mallard	1.23	Oral Diet	growth	body weight	7 mo	chronic	--	--	325	0.1	1	32.5	325	
SVOC	Acenaphthylene	Aromatic Hydrocarbon Mixture	Patton and Dieter 1980	mallard	1.23	Oral Diet	growth	body weight	7 mo	chronic	--	--	325	0.1	1	32.5	325	
SVOC	Anthracene	Aromatic Hydrocarbon Mixture	Patton and Dieter 1980	mallard	1.23	Oral Diet	growth	body weight	7 mo	chronic	--	--	325	0.1	1	32.5	325	
SVOC	Benzo(a)anthracene	Aromatic Hydrocarbon Mixture	Patton and Dieter 1980	mallard	1.23	Oral Diet	growth	body weight	7 mo	chronic	--	--	325	0.1	1	32.5	325	
SVOC	Benzo(a)pyrene	Aromatic Hydrocarbon Mixture	Patton and Dieter 1980	mallard	1.23	Oral Diet	growth	body weight	7 mo	chronic	--	--	325	0.1	1	32.5	325	
SVOC	Benzo(b)fluoranthene	Aromatic Hydrocarbon Mixture	Patton and Dieter 1980	mallard	1.23	Oral Diet	growth	body weight	7 mo	chronic	--	--	325	0.1	1	32.5	325	
SVOC	Benzo(ghi)perylene	Aromatic Hydrocarbon Mixture	Patton and Dieter 1980	mallard	1.23	Oral Diet	growth	body weight	7 mo	chronic	--	--	325	0.1	1	32.5	325	
SVOC	Benzo(k)fluoranthene	Aromatic Hydrocarbon Mixture	Patton and Dieter 1980	mallard	1.23	Oral Diet	growth	body weight	7 mo	chronic	--	--	325	0.1	1	32.5	325	
SVOC	bis(2-ethylhexyl) phthalate	NA	Peakall 1974	ringed dove	0.155	Oral Diet	reproduction	NOAEL	4 wks (during critical lifestage)	chronic		1.11	NA	1	--	1.11	--	
SVOC	Chrysene	Aromatic Hydrocarbon Mixture	Patton and Dieter 1980	mallard	1.23	Oral Diet	growth	body weight	7 mo	chronic	--	--	325	0.1	1	32.5	325	
SVOC	Dibenzo(a,h)anthracene	Aromatic Hydrocarbon Mixture	Patton and Dieter 1980	mallard	1.23	Oral Diet	growth	body weight	7 mo	chronic	--	--	325	0.1	1	32.5	325	
SVOC	Dibenzofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOC	Di-n-butyl phthalate	NA	Peakall 1974	ringed dove	0.155	Oral Diet	reproduction	reduced eggshell thickness and permeability	4 wks (during critical lifestage)	chronic		NA	1.11	0.1	1	0.111	1.11	
SVOC	Di-n-octyl phthalate	Di-n-butyl phthalate as surrogate	Peakall 1974	ringed dove	0.155	Oral Diet	reproduction	reduced eggshell thickness and permeability	4 wks (during critical lifestage)	chronic		NA	1.11	0.1	1	0.111	1.11	
SVOC	Fluoranthene	Aromatic Hydrocarbon Mixture	Patton and Dieter 1980	mallard	1.23	Oral Diet	growth	body weight	7 mo	chronic	--	--	325	0.1	1	32.5	325	
SVOC	Fluorene	Aromatic Hydrocarbon Mixture	Patton and Dieter 1980	mallard	1.23	Oral Diet	growth	body weight	7 mo	chronic	--	--	325	0.1	1	32.5	325	
SVOC	Indeno(1,2,3-cd)pyrene	Aromatic Hydrocarbon Mixture	Patton and Dieter 1980	mallard	1.23	Oral Diet	growth	body weight	7 mo	chronic	--	--	325	0.1	1	32.5	325	
SVOC	Phenanthrene	Aromatic Hydrocarbon Mixture	Patton and Dieter 1980	mallard	1.23	Oral Diet	growth	body weight	7 mo	chronic	--	--	325	0.1	1	32.5	325	
SVOC	Pyrene	Aromatic Hydrocarbon Mixture	Patton and Dieter 1980	mallard	1.23	Oral Diet	growth	body weight	7 mo	chronic	--	--	325	0.1	1	32.5	325	
TPH	TPH (Gas/Diesel Range)	No. 2 Fuel Oil	Szaro et al. 1981	mallard	1	Oral	growth, mortality, and behavior	mortality, body weight	18 wks	chronic	.	500	5000	1	1	500	5000	
VOC	1,1,1-Trichloroethane																	
VOC	1,2,4-Trimethylbenzene	Aromatic Hydrocarbon Mixture	Patton and Dieter 1980	mallard	1.23	Oral Diet	growth	body weight	7 mo	chronic	--	--	325	0.1	1	32.5	325	
VOC	1,3,5-Trimethylbenzene	Aromatic Hydrocarbon Mixture	Patton and Dieter 1980	mallard	1.23	Oral Diet	growth	body weight	7 mo	chronic	--	--	325	0.1	1	32.5	325	
VOC	1,4-Dichlorobenzene																	
VOC	2-Chlorotoluene																	
VOC	Acetone	NA	Hill and Camardese 1986	Coturnix japonica	NR	Oral	NA	NOAEL	5 days	acute		5200.0	--	0.01	--	52	--	
VOC	Ethylbenzene	Aromatic Hydrocarbon Mixture	Patton and Dieter 1980	mallard	1.23	Oral Diet	growth	body weight	7 mo	chronic	--	--	325	0.1	1	32.5	325	
VOC	Hexachlorobutadiene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOC	Isopropylbenzene (Cumene)	Aromatic Hydrocarbon Mixture	Patton and Dieter 1980	mallard	1.23	Oral Diet	growth	body weight	7 mo	chronic	--	--	325	0.1	1	32.5	325	
VOC	Methyl Ethyl Ketone (2-Butanone)	NA	NA	NA	NA		NA	NA	NA			--	--	--	--	--	--	

TABLE 3-12

Bird and Mammal Toxicological Benchmarks

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Chemical Group	Analyte	Analyte/surrogate	Study	Test species	Body Weight (kg)	Dose route	Endpoint	Endpoint 2	Duration	Test Duration	LD50	NOAEL (mg/kg/d)	LOAEL (mg/kg/d)	UF NOAEL	UF LOAEL	Normalized NOAEL	Normalized LOAEL	Notes
VOC	Methylene Chloride	NA	NA	NA	NA	NA	NA	NA	NA			--	--	--	--	--	--	
VOC	Naphthalene	Naphthalene	Wildlife International 1985	Bobwhite	0.178	Oral Gavage	mortality	mortality	single dose-14 d obs	Acute	2690	NA	NA	0.01	0.1	26.9	269	
VOC	n-Propylbenzene	Aromatic Hydrocarbon Mixture	Patton and Dieter 1980	mallard	1.23	Oral Diet	growth	body weight	7 mo	chronic	--	--	325	0.1	1	32.5	325	
VOC	O-Xylene	Xylenes as surrogate	Hill and Camardese 1986	Japanese Quail	0.15	Oral Diet	mortality	mortality	5 d	Subacute	.		500	0.1	1	50	500	
VOC	P-Cymene (4-Isopropyltoluene)	Aromatic Hydrocarbon Mixture	Patton and Dieter 1980	mallard	1.23	Oral Diet	growth	body weight	7 mo	chronic	--	--	325	0.1	1	32.5	325	
VOC	Toluene	Aromatic Hydrocarbon Mixture	Patton and Dieter 1980	mallard	1.23	Oral Diet	growth	body weight	7 mo	chronic	--	--	325	0.1	1	32.5	325	
VOC	Xylenes	Xylene	Hill and Camardese 1986	Japanese Quail	0.15	Oral Diet	mortality	mortality	5 d	Subacute	.		500	0.1	1	50	500	
Mammals																		
METAL	Aluminum	aluminum chloride	Ondreicka et al. 1966	mouse	0.03	Oral Water	reproduction	reproduction	3 generations	chronic			19.3	0.1	1.0	1.93	19.3	
METAL	Barium	barium chloride	Perry et al. 1983	rat	0.435	Oral Water	growth, hypertension	growth, hypertension	16 mo	chronic	.	5.1	NA	1	--	5.1	--	
METAL	Barium	barium chloride	Borzelleca et al. 1988	rat	0.35	Oral Gavage	survivorship	% survival	10 days	Subacute		--	198.0	--	0.1	--	19.8	
METAL	Beryllium	beryllium sulfate	Schroeder and Mitchener 1975	rat	0.35	Oral Water	growth	longevity and weight loss	lifetime (> 1yr)	chronic		0.66	--	1.0	--	0.66	--	
METAL	Chromium	Cr_2O_3 (Cr+3)	Ivankovic and Preussmann 1975	rat	0.35	Oral Diet	reproduction	carcinogenicity, longevity	2 yr	chronic		2737	NA	1	--	2737	--	
METAL	Chromium	Cr_2O_3 (Cr+3)	Ivankovic and Preussmann 1975	rat	0.35	Oral Diet	reproduction	fertility, number pups per litter	90 days (critical lifestage)	chronic		2737	NA	1	--	2737	--	
METAL	Chromium	$K_2Cr_2O_4$ (Cr+6)	MacKenzie et al. 1958	rat	0.35	Oral Water	growth, food consumption	body weight, food consumption	1 yr	chronic		3.28	NA	1		3.28		
METAL	Chromium	Cr^{+6}	Steven et al. 1976	rat	0.35	Oral Water	mortality	% survival	3 months (< 1 yr)	subchronic		NA	131.4		0.1	13.14		
METAL	Lead	lead acetate	Ronis et al. 1998	rat	0.35	Oral Diet	reproduction	pup mortality	gestation through parturition (critical life stage)	chronic		32	96	1	1	32	96	
METAL	Lead	Lead acetate	Kimmel et al. 1980, Grant et al. 1980, Fowler et al. 1980	rat	0.35	Oral Diet	reproduction	reproductive development in females	6-7 wks prior to mating through lactation	chronic		0.92	4.7	1	1	0.92	4.7	New BTAG (DTSC 2002)
METAL	Nickel	Nickel sulfate hexahydrate	Ambrose et al. 1976	rat	0.35	Oral Diet	reproduction	reproduction	3 generations			40	80					
METAL	Nickel	nickel sulfate hexahydrate	Ambrose et al. 1976	rat	0.35	Oral Diet	reproduction	# offspring, weight gain, kidney tox	3 gen; 1 yr (critical life stage)	chronic		5	NA	1	--	5	--	CH2M HILL 2000 (ALT BTAG)
METAL	Nickel	Nickel chloride	Smith et al. 1993	rat	0.35		reproduction	21 d pup survival in 3rd generation	2 generations	chronic		6.8	31.63	1	1	6.8	31.63	
METAL	Nickel	nickel chloride	Smith et al. 1993	rat	0.35		reproduction	21 d pup survival in 3rd generation	2 generations	chronic		0.133	31.6	1	1	0.133	31.6	EFA West 1998 (BTAG)
METAL	Nickel	Nickel acetate	Whanger 1973	brown rats	0.9		growth	weight gain	6 weeks			12.69	63.36	1	1	12.69	63.36	
METAL	Selenium	Selenite	Harr et al. 1966	rat	0.025		hepatotoxicity	hepatic lesions	lifetime	Chronic		0.05	NA	1	--	0.05	--	EFA West (1998) BTAG
METAL	Selenium	Selenite	Schroeder and Mitchner 1971	mouse	0.0246		reproduction	young deaths, runts	6 months	Chronic		NA	1.21	--	1	--	1.21	EFA West (1998) BTAG
METAL	Selenium	Potassium selenate (SeO_4)	Rosenfeld and Beath 1954	rat	0.35	Oral Water	reproduction	survival, growth, fertility	2 generations	chronic		0.2	0.33	1	1	0.2	0.33	CH2M HILL (2000) ALT-BTAG
METAL	Vanadium	vanadyl sulfate	Schroeder et al 1968	rat	0.35		growth, survivorship	growth rate, survival and longevity, blood levels, heart weight and accumulation	540 days	chronic		1.34	--	1.0	--	1.34	--	
METAL	Vanadium	sodium metavanadate	Domingo et al. 1986	rat	0.35	Oral Intubation	reproduction	number of dead pups per litter	60 d prior to gestation (delivery and lactation)	chronic		--	2.1	0.1	1	0.21	2.1	
METAL	Zinc	Zinc sulfate	Aughey et al. 1977	mouse	0.025		systemic effects	hypertrophy	14 months	Chronic		9.6	NA	1	--	9.6	--	EFA West (1998) BTAG
METAL	Zinc	Zinc oxide	Schlicker and Cox 1968	rat	0.35		reproduction	resorptions	21 d before and through gestation	Chronic		NA	411.43	--	1	--	411.43	EFA West (1998) BTAG
METAL	Zinc	Zinc oxide	Schlicker and Cox 1968	rat	0.35		reproduction	resorption	21 d before and through gestation	Chronic		160	320	1	1	160	320	CH2M HILL (2000) ALT-BTAG
METAL	Zinc	Zinc carbonate	Kinnamon 1963	rat	0.255		reproduction	fetuses/litter	7 wks through reproduction	Chronic		451	NA					
METAL	Zinc	Zinc carbonate	Feaster et al. 1972	rat	0.35		reproduction	viable fetuses/litter	4 mos through reproduction	Chronic		9.7	1220					
DIOXIN/FURAN	2,3,7,8-TCDD		Murray et al. 1979	rat	0.35	Oral Diet	reproduction	fertility, neonatal survival	3 generation	chronic		0.000001	0.00001	1	1	0.000001	0.00001	
PEST/PCB	Aldrin	NA	Paul et al. 1992	rat	0.065	Oral Intubation	behavior	inhibition of learning and conditioned avoidance response	90 days			0.1	1	1	1	0.1	1	EFA West (1998) BTAG
PEST/PCB	Aldrin	NA	Treon and Cleveland 1955	rat	0.35	Oral Diet	reproduction	# liters and offspring mortality	3 generations (chronic)	chronic		0.2	1	1	1	0.2	1	CH2M HILL (2000) ALT-BTAG
PEST/PCB	Alpha BHC	BHC mixed isomers	Grant et al .1977	rat	0.35	Oral Diet	reproduction	decreases litter size, reduced birth weight, maternal mortality	3 generations (>1 yr and critical lifestage)	chronic		1.6	3.2	1	1	1.6	3.2	
PEST/PCB	Alpha BHC	BHC mixed isomers	Bleavins et al. 1984	mink	1	Oral Diet	reproduction	increased kit mortality, decreased kit birth weight	331 days (critical lifestage)	chronic		--	0.14	0.1	1	0.014	0.14	
PEST/PCB	Beta BHC		Van Velsen et al. 1986	rat	0.35	Oral Diet	organ pathology	gondal atrophy in both sexes	13 wks	subchronic		4	20	0.1	0.1	0.4	2	
PEST/PCB	Alpha-Chlordane	Chlordane	WHO 1984	mouse	0.03	Oral Diet	reproduction	decreased number of young produced	6 generations	chronic		4.6	9.2	1	1	4.6	9.2	
PEST/PCB	DDD	DDT as surrogate	Fitzhugh 1948	rat	0.35	Oral Diet	reproduction	decreased number of young produced	2 years			0.8	4	1	1	0.8	4	BTAG and CH2M HILL 2000 (ALT BTAG)
PEST/PCB	DDE	DDT as surrogate	Fitzhugh 1948	rat	0.35	Oral Diet	reproduction	decreased number of young produced	2 years			0.8	4	1	1	0.8	4	BTAG and CH2M HILL 2000 (ALT BTAG)
PEST/PCB	DDT		Fitzhugh 1948	rat	0.35	Oral Diet	reproduction	decreased number of young produced	2 years			0.8	4	1	1	0.8	4	BTAG and CH2M HILL 2000 (ALT BTAG)
PEST/PCB	Delta BHC	BHC mixed isomers	Grant et al .1977	rat	0.35	Oral Diet	reproduction	decreases litter size, reduced birth weight, maternal mortality	3 generations (>1 yr and critical lifestage)	chronic		1.6	3.2	1	1	1.6	3.2	
PEST/PCB	Delta BHC	BHC mixed isomers	Bleavins et al. 1984	mink	1	Oral Diet	reproduction	increased kit mortality, decreased kit birth weight	331 days (critical lifestage)	chronic		--	0.14	0.1	1	0.014	0.14	
PEST/PCB	Dieldrin	NA	Treon and Cleveland 1955	rat	0.35	Oral Diet	reproduction	number of pregnancies	3 generations	chronic		--	0.2	0.1	1	0.02	0.2	
PEST/PCB	Endosulfan sulfate	Endosulfan as surrogate	Dikshith et al. 1984	rat	0.35	Oral Intubation	reproduction, blood chemistry	NOAEL	30 d (not a critical lifestage)	subchronic		1.5	--	0.1	--	0.15	--	
PEST/PCB	Endrin	NA	Good and Ware 1969	mouse	0.03	Oral Diet	reproduction	parental survival, litter size, # young	120 days (critical lifestage)	chronic		--	0.92	0.1	1	0.092	0.92	
PEST/PCB	Endrin Aldehyde	Endrin as surrogate	Good and Ware 1969	mouse	0.03	Oral Diet	reproduction	parental survival, litter size, # young	120 days (critical lifestage)	chronic		--	0.92	0.1	1	0.092	0.92	
PEST/PCB	Endrin Ketone	Endrin as surrogate	Good and Ware 1969	mouse	0.03	Oral Diet	reproduction	parental survival, litter size, # young	120 days (critical lifestage)	chronic		--	0.92	0.1	1	0.092	0.92	
PEST/PCB	Heptachlor	NA	Shain et al. 1977	rat	0.1	Oral Diet	growth	weight gain	90 days	subchronic		1.29	NA	1	--	1.29	--	EFA West (1998) BTAG
PEST/PCB	Heptachlor	NA	Narotsky et al. 1995	rat	0.21		reproduction	pup weights	90 days	chronic		NA	6.8	--	1	--	6.8	EFA West (1998) BTAG
PEST/PCB	Heptachlor		Crum et al. 1993	mink	1	Oral Diet	reproduction	adult mortality, fertility, kit survival	181 d (critical lifestage)	chronic		--	1	0.1	1	0.1	1	CH2M HILL 2000 (ALT BTAG)
PEST/PCB	Heptachlor Epoxide	Heptachlor as surrogate	Crum et al. 1993	mink	1	Oral Diet	reproduction	adult mortality, fertility, kit survival	181 d (critical lifestage)	chronic		--	1	0.1	1	0.1	1	CH2M HILL 2000 (ALT BTAG)
PEST/PCB	Methoxychlor		Gray et al. 1988	rat	0.35	Oral Diet	reproduction	fertility and litter size reduced	11 mo	chronic		4.000	8	1.0	1	4.0	8	
PEST/PCB	PCBs	Aroclor 1254	Linder et al. 1974	rat	0.35		reproduction	reduced litter size	2 gen	chronic		0.92	3.67	1	1	0.92	3.67	
PEST/PCB	PCBs	Aroclor 1254	Aulerich and Ringer 1977	mink	1	Oral Diet	reproduction	reduced number of live offspring	4.5 mo	chronic		0.14	0.69	1	1	0.14	0.69	
PEST/PCB	PCBs		Simmons and McKee 1992	mouse	0.03	Oral Diet	physiological	liver wt, PROD activity	21 d	subchronic		0.36		1		0.36		EFA West (1998) BTAG
PEST/PCB	Total PCBs	Aroclor 1254	McCoy et al. 1995	Oldfield mouse	0.03	Oral Diet	Reproduction	reduced number of litters, offspring wt, and survival	12 mo	chronic	.		0.68	0.1	1	0.068	0.68	CH2M HILL 2000 (ALT BTAG)
SVOC	2-Methylnaphthalene		Murata et al. 1997	mouse	0.0425	Oral in Diet	survival, pathology	pulmonary pathology	81 wk	chronic	.		50.3	0.1	1	5.03	50.3	
SVOC	Acenaphthene		IRIS	mouse	0.03	Oral Gavage	hepatotoxicity		90 d	chronic	.	175	350	1	1	175	350	
SVOC	Acenaphthylene	Acenaphthene as surrogate	IRIS	mouse	0.03	Oral Gavage	hepatotoxicity		90 d	chronic	.	175	350	1	1	175	350	
SVOC	Anthracene		IRIS	mouse	0.03	Oral Gavage	survival, pathology		90 d	chronic	.	1000	.	1		1000		
SVOC	Benzo(a)anthracene	Benzo(a)pyrene as surrogate	Mackenzie and Angevine 1981	mouse	0.03	Oral Gavage	Reproduction	reduced pup weights, impaired fertility	days 7-16 of gestation	chronic	.		10	0.1	1	1	10	CH2M HILL 2000 (ALT BTAG)
SVOC	Benzo(a)pyrene		Mackenzie and Angevine 1981	mouse	0.03	Oral Gavage	Reproduction	reduced pup weights, impaired fertility	days 7-16 of gestation	chronic	.		10	0.1	1	1	10	CH2M HILL 2000 (ALT BTAG)
SVOC	Benzo(b)fluoranthene	Benzo(a)pyrene as surrogate	Mackenzie and Angevine 1981	mouse	0.03	Oral Gavage	Reproduction	reduced pup weights, impaired fertility	days 7-16 of gestation	chronic	.		10	0.1	1	1	10	CH2M HILL 2000 (ALT BTAG)
SVOC	Benzo(ghi)perylene	Benzo(a)pyrene as surrogate	Mackenzie and Angevine 1981	mouse	0.03	Oral Gavage	Reproduction	reduced pup weights, impaired fertility	days 7-16 of gestation	chronic	.		10	0.1	1	1	10	CH2M HILL 2000 (ALT BTAG)
SVOC	Benzo(k)fluoranthene	Benzo(a)pyrene as surrogate	Mackenzie and Angevine 1981	mouse	0.03	Oral Gavage	Reproduction	reduced pup weights, impaired fertility	days 7-16 of gestation	chronic	.		10	0.1	1	1	10	CH2M HILL 2000 (ALT BTAG)
SVOC	Bis(2-ethylhexyl) phthalate		Lamb et al. 1987	mouse	0.03	Oral Diet	reproduction	significant reproductive effects	105 d	chronic		18.3	183	1	1	18.3	183	
SVOC	Chrysene	Benzo(a)pyrene as surrogate	Mackenzie and Angevine 1981	mouse	0.03	Oral Gavage	Reproduction	reduced pup weights, impaired fertility	days 7-16 of gestation	chronic	.		10	0.1	1	1	10	CH2M HILL 2000 (ALT BTAG)
SVOC	Dibenzo(a,h)anthracene	Benzo(a)pyrene as surrogate	Mackenzie and Angevine 1981	mouse	0.03	Oral Gavage	Reproduction	reduced pup weights, impaired fertility	days 7-16 of gestation	chronic	.		10	0.1	1	1	10	CH2M HILL 2000 (ALT BTAG)
SVOC	Dibenzofuran	.	.	.	.	.	.	.	.	.	.	.	.					
SVOC	Di-n-butyl phthalate		Lamb et al. 1987	mouse	0.03	Oral Diet	reproduction	reduced liters/pair, live pups/pair	105 d	chronic		550	1833	1	1	550	1833	
SVOC	Di-n-octyl phthalate	Di-n-butyl phthalate as surrogate	Lamb et al. 1987	mouse	0.03	Oral Diet	reproduction	reduced liters/pair, live pups/pair	105 d	chronic		550	1833	1	1	550	1833	

TABLE 3-12

Bird and Mammal Toxicological Benchmarks

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Chemical Group	Analyte	Analyte/surrogate	Study	Test species	Body Weight (kg)	Dose route	Endpoint	Endpoint 2	Duration	Test Duration	LD50	NOAEL (mg/kg/d)	LOAEL (mg/kg/d)	UF NOAEL	UF LOAEL	Normalized NOAEL	Normalized LOAEL	Notes
SVOC	Fluoranthene		IRIS	mouse	0.03	Oral Gavage	nephropathy		13 wk	chronic	.	125	250	1	1	125	250	
SVOC	Fluorene		IRIS	mouse	0.03	Oral Gavage	hematoxicity		90 d	chronic	.	125	250	1	1	125	250	
SVOC	Indeno(1,2,3-cd)pyrene	Benzo(a)pyrene as surrogate	Mackenzie and Angevine 1981	mouse	0.03	Oral Gavage	Reproduction	reduced pup weights, impaired fertility	days 7-16 of gestation	chronic	.		10	0.1	1	1	10	CH2M HILL 2000 (ALT BTAG)
SVOC	Phenanthrene	Fluorene	IRIS	mouse	0.03	Oral Gavage	hematoxicity		90 d	chronic	.	125	250	1	1	125	250	
SVOC	Pyrene		IRIS	mouse	0.03	Oral Gavage	nephropathy		13 wk	chronic	.	75	125	1	1	75	125	
TPH	TPH Gas/Diesel Range	JP-8	Cooper and Mattie 1996	rat	0.35	Oral Gavage	reproduction	maternal and fetal weight gain	d 6-19 of gestation	Chronic	.	1000	1500	1	1	1000	1500	
VOC	1,1,1-Trichloroethane																	
VOC	1,2,4-Trimethylbenzene	Isopropylbenzene (Cumene)	Wolf et al. 1956	rat	0.25	Oral Gavage	survival, pathology	kidney pathology	194 d	chronic	.	110	330	1	1	110	330	
VOC	1,3,5-Trimethylbenzene	Isopropylbenzene (Cumene)	Wolf et al. 1956	rat	0.25	Oral Gavage	survival, pathology	kidney pathology	194 d	chronic	.	110	330	1	1	110	330	
VOC	1,4-Dichlorobenzene																	
VOC	2-Chlorotoluene																	
VOC	Acetone	NA	EPA 1986	rat	0.35	Oral Intubation	systemic	liver and kidney damage	90 days	subchronic		100	500	0.1	0.1	10	50	
VOC	Ethylbenzene	NA	IRIS, 2002	rat	0.175		mortality, pathology	liver and kidney pathology	182-194 days (>12 weeks)	chronic		136	408	1	1	136	408	
VOC	Ethylbenzene	Ethylbenzene	Wolf et al. 1956	rat	0.25		survival, pathology	mortality, liver and kidney pathology	182 d	Chronic	.	97	291	1	1	97	291	
VOC	Hexachlorobutadiene		Harleman and Seinen 1979	rat	0.35	Oral Diet	reproduction	reduced growth of offspring	4 wks prior to mating (18 wks total)	chronic		12	120	1	1	12	120	
VOC	Isopropylbenzene (Cumene)		Wolf et al. 1956	rat	0.25	Oral Gavage	survival, pathology	kidney pathology	194 d	chronic	.	110	330	1	1	110	330	
VOC	Methyl ethyl ketone (2-Butanone)	NA	Cox et al. 1975	rat	0.35	Oral Water	reproduction	number of pups per litter, pup survivorship, pup body weight	2 generations	chronic		1771	4571	1	1	1771	4571	
VOC	Methylene Chloride	NA	Serota et al. 1986, NCA 1982	rat	0.35	Oral Water	histopathology	liver histopathology	104 weeks (chronic)	chronic		5.85	50	1	1	5.85	50	
VOC	Naphthalene		Navarro et al. 1991	rat	0.24	Oral Gavage	reproduction	maternal weight gain	d 6-15 of gestation	Chronic	.	50	150	1	1	50	150	
VOC	n-Propylbenzene	Isopropylbenzene (Cumene)	Wolf et al. 1956	rat	0.25	Oral Gavage	survival, pathology	kidney pathology	194 d	chronic	.	110	330	1	1	110	330	
VOC	O-Xylene	Xylene as surrogate	Marks et al. 1982	mouse	0.03		reproduction	fetal weight, malformations	days 6-15 of gestation (critical lifestage)	chronic		2060.000	2580.000	1.000	1.000	2060.000	2580.000	
VOC	O-Xylene	Xylene as surrogate	IRIS	rat	0.35	Oral Gavage	behavior, growth, mortality	mortality, weight gain	103 wk	chronic	.	179	357	1	1	179	357	
VOC	p-Cymeme (4-Isopropyltoluene)	Isopropylbenzene (Cumene)	Wolf et al. 1956	rat	0.25	Oral Gavage	survival, pathology	kidney pathology	194 d	chronic	.	110	330	1	1	110	330	
VOC	Toluene	Toluene	Gospe et al. 1994	rat	0.2	Oral Gavage	reproduction	maternal and fetal weight gain	days 6-19 of gestation	chronic	.		520	0.1	1	52	520	
VOC	Toluene	NA	Nawrot and Staples 1979	mouse	0.03	Oral Gavage	reproduction	fetal weight	d 6-19 of gestation (critical lifestage)	chronic		--	260	0.1	1	26	260	
VOC	Total Xylenes	Xylene (mixed isomers)	Marks et al. 1982	mouse	0.03		reproduction	fetal weight, malformations	d 6-15 of gestation (critical lifestage)	chronic		2060	2580	1	1	2060	2580	
VOC	Xylenes	Xylene Mixture	IRIS	rat	0.35	Oral Gavage	behavior, growth, mortality	mortality, weight gain	103 wk	chronic	.	179	357	1	1	179	357	

Notes:

LD50 = median lethal dose

NOAEL = no observed adverse effects level

LOAEL = lowest observed adverse effects level

UF = uncertainty factor

Shaded rows represent the toxicological studies selected for use in the ERA.

TABLE 3-13

Receptor-Specific NOAELs and LOAELs Estimated from Literature-Derived Data Using Allometric Scaling Methods Presented in Sample et al. (1996) and Sample and Arenal (1999)[a].

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Receptor	Chemical Group	Analyte	Study	Test Species	Test BW (kg)	Normalized Test NOAEL	Normalized Test LOAEL	Receptor BW	Receptor NOAEL	Receptor LOAEL
Birds										
American Robin	METAL	Aluminum	Carriere et al. 1986	ringed dove	0.155	109.7	NA	0.0773	95.450	NA
	METAL	Barium	Johnson et al. 1960	1-day old chicks	0.121	20.83	41.65	0.0773	19.041	38.082
	METAL	Chromium	Haseltine et. al. 1985	black duck	1.25	1	5	0.0773	0.573	2.866
	METAL	Lead	Edens and Garlich,1983	*Coturnix japonica*	0.8	0.19	1.78	0.0773	0.119	1.115
	METAL	Nickel	Cain and Pafford 1981	mallard	0.782	17.6	77.4	0.0773	11.079	48.723
	METAL	Selenium	Heinz et al. 1989	mallard	1	0.4	0.8	0.0773	0.240	0.479
	METAL	Vanadium	White and Dieter 1978	mallard	1.17	11.4	NA	0.0773	6.621	NA
	METAL	Zinc	Stahl et al. 1990	chicken	1.766	14.5	131	0.0773	7.755	70.066
	DIOXIN/FURAN	TCDD	Nosek et al. 1992	ring-necked pheasant	1	0.000014	0.00014	0.0773	0.0000084	0.0000839
	DIOXIN/FURAN	TDBF	McKinney et al. 1976	1-day old chicks	0.121	0.000001	0.00001	0.0773	0.0000009	0.0000091
	PEST/PCB	Aldrin	USFWS 1984	northern bobwhite	0.174	0.0073	NA	0.0773	0.006	NA
	PEST/PCB	Alpha- BHC	Chakravarty and Lahiri 1986; Chakravarty et al. 1986	mallard	1	5.71	8.57	0.0773	3.422	5.136
	PEST/PCB	Alpha-Chlordane	Stickel et al. 1983	red-winged blackbird	0.064	2.14	10.70	0.0773	2.222	11.112
	PEST/PCB	Beta-BHC	Chakravarty and Lahiri 1986; Chakravarty et al. 1986	mallard	1	5.71	8.57	0.0773	3.422	5.136
	PEST/PCB	DDD	USEPA 1995b	mallard	1	NA	0.6	0.0773	NA	0.360
	PEST/PCB	DDD	Anderson et al. 1975 and 1977	brown pelican	3.5	0.009	NA	0.0773	0.004	NA
	PEST/PCB	DDE	USEPA 1995b	mallard	1	NA	0.6	0.0773	NA	0.360
	PEST/PCB	DDE	Anderson et al. 1975 and 1977	brown pelican	3.5	0.009	NA	0.0773	0.004	NA
	PEST/PCB	DDT	USEPA 1995b	mallard	1	NA	0.6	0.0773	NA	0.360
	PEST/PCB	DDT	Anderson et al. 1975 and 1977	brown pelican	3.5	0.009	NA	0.0773	0.004	NA
	PEST/PCB	Delta-BHC	Chakravarty and Lahiri 1986; Chakravarty et al. 1986	mallard	1	5.71	8.57	0.0773	3.422	5.136
	PEST/PCB	Dieldrin	Mendenhall et al. 1983	barn owl	0.466	0.077	NA	0.0773	0.054	NA
	PEST/PCB	Endosulfan Sulfate	Abiola 1992	gray partridge	0.4	10	NA	0.0773	7.198	NA
	PEST/PCB	Endrin	Spann et al. 1986	mallard	1.15	0.3	NA	0.0773	0.175	NA
	PEST/PCB	Endrin Aldehyde	Spann et al. 1986	mallard	1.15	0.3	NA	0.0773	0.175	NA
	PEST/PCB	Endrin Ketone	Spann et al. 1986	mallard	1.15	0.3	NA	0.0773	0.175	NA
	PEST/PCB	Heptachlor	Hill and Camardese 1986	quail	0.15	0.065	NA	0.0773	0.057	NA
	PEST/PCB	Heptachlor Epoxide	Hill and Camardese 1986	quail	0.15	0.065	NA	0.0773	0.057	NA
	PEST/PCB	Methoxychlor	NA	NA	NA	NA	NA	0.0773	NA	NA
	PEST/PCB	PCBs (Aroclor 1260)	Platonow and Reinhart 1973	chicken	1.5	0.09	0.9	0.0773	0.050	0.497
	SVOC	2-Methylnaphthalene	Patton and Dieter 1980	mallard	1.23	32.5	325	0.0773	18.687	186.869
	SVOC	Acenaphthene	Patton and Dieter 1980	mallard	1.23	32.5	325	0.0773	18.687	186.869
	SVOC	Acenaphthylene	Patton and Dieter 1980	mallard	1.23	32.5	325	0.0773	18.687	186.869
	SVOC	Anthracene	Patton and Dieter 1980	mallard	1.23	32.5	325	0.0773	18.687	186.869
	SVOC	Benzo(a)anthracene	Patton and Dieter 1980	mallard	1.23	32.5	325	0.0773	18.687	186.869
	SVOC	Benzo(a)pyrene	Patton and Dieter 1980	mallard	1.23	32.5	325	0.0773	18.687	186.869
	SVOC	Benzo(b)fluoranthene	Patton and Dieter 1980	mallard	1.23	32.5	325	0.0773	18.687	186.869
	SVOC	Benzo(ghi)perylene	Patton and Dieter 1980	mallard	1.23	32.5	325	0.0773	18.687	186.869
	SVOC	Benzo(k)fluoranthene	Patton and Dieter 1980	mallard	1.23	32.5	325	0.0773	18.687	186.869
	SVOC	bis(2-ethylhexyl) phthalate	Peakall 1974	ringed dove	0.155	1.11	NA	0.0773	0.966	NA
	SVOC	Chrysene	Patton and Dieter 1980	mallard	1.23	32.5	325	0.0773	18.687	186.869
	SVOC	Dibenzo(a,h)anthracene	Patton and Dieter 1980	mallard	1.23	32.5	325	0.0773	18.687	186.869
	SVOC	Dibenzofuran	NA	NA	NA	NA	NA	0.0773	NA	NA
	SVOC	Di-n-butyl phthalate	Peakall 1974	ringed dove	0.155	0.111	1.11	0.0773	0.097	0.966
	SVOC	Di-n-octyl phthalate	Peakall 1974	ringed dove	0.155	0.111	1.11	0.0773	0.097	0.966
	SVOC	Fluoranthene	Patton and Dieter 1980	mallard	1.23	32.5	325	0.0773	18.687	186.869

TABLE 3-13

Receptor-Specific NOAELs and LOAELs Estimated from Literature-Derived Data Using Allometric Scaling Methods Presented in Sample et al. (1996) and Sample and Arenal (1999)[a].

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Receptor	Chemical Group	Analyte	Study	Test Species	Test BW (kg)	Normalized Test NOAEL	Normalized Test LOAEL	Receptor BW	Receptor NOAEL	Receptor LOAEL
	SVOC	Fluorene	Patton and Dieter 1980	mallard	1.23	32.5	325	0.0773	18.687	186.869
	SVOC	Indeno(1,2,3-cd)pyrene	Patton and Dieter 1980	mallard	1.23	32.5	325	0.0773	18.687	186.869
	SVOC	Phenanthrene	Patton and Dieter 1980	mallard	1.23	32.5	325	0.0773	18.687	186.869
	SVOC	Pyrene	Patton and Dieter 1980	mallard	1.23	32.5	325	0.0773	18.687	186.869
	TPH	TPH (Gas/Diesel Range)	Szaro et al. 1981	mallard	1	500	5000	0.0773	299.644	2996.442
	VOC	1,1,1-Trichloroethane	NA	NA	NA	NA	NA	0.0773	NA	NA
	VOC	1,2,4-Trimethylbenzene	Patton and Dieter 1980	mallard	1.23	32.5	325	0.0773	18.687	186.869
	VOC	1,3,5-Trimethylbenzene	Patton and Dieter 1980	mallard	1.23	32.5	325	0.0773	18.687	186.869
	VOC	1,4-Dichlorobenzene	NA	NA	NA	NA	NA	0.0773	NA	NA
	VOC	2-Chlorotoluene	NA	NA	NA	NA	NA	0.0773	NA	NA
	VOC	Acetone	Hill and Camardese 1986	Coturnix japonica	0.15	52	NA	0.0773	45.543	NA
	VOC	Ethylbenzene	Patton and Dieter 1980	mallard	1.23	32.5	325	0.0773	18.687	186.869
	VOC	Hexachlorobutadiene	NA	NA	NA	NA	NA	0.0773	NA	NA
	VOC	Isopropylbenzene (Cumene)	Patton and Dieter 1980	mallard	1.23	32.5	325	0.0773	18.687	186.869
	VOC	Methyl Ethyl Ketone (2-Butanone)	NA	NA	NA	NA	NA	0.0773	NA	NA
	VOC	Methylene Chloride	NA	NA	NA	NA	NA	0.0773	NA	NA
	VOC	Naphthalene	Wildlife International 1985	Bobwhite	0.178	26.9	269	0.0773	22.767	227.669
	VOC	n-Propylbenzene	Patton and Dieter 1980	mallard	1.23	32.5	325	0.0773	18.687	186.869
	VOC	O-Xylene	Hill and Camardese 1986	Japanese Quail	0.15	50	500	0.0773	43.791	437.913
	VOC	P-Cymene (4-Isopropyltoluene)	Patton and Dieter 1980	mallard	1.23	32.5	325	0.0773	18.687	186.869
	VOC	Toluene	Patton and Dieter 1980	mallard	1.23	32.5	325	0.0773	18.687	186.869
	VOC	Xylenes	Hill and Camardese 1986	Japanese Quail	0.15	50	500	0.0773	43.791	437.913
Bald Eagle	METAL	Aluminum	Carriere et al. 1986	ringed dove	0.155	109.7	NA	4.552	215.666	NA
	METAL	Barium	Johnson et al. 1960	1-day old chicks	0.121	20.83	41.65	4.552	43.022	86.046
	METAL	Chromium	Haseltine et. al. 1985	black duck	1.25	1	5	4.552	1.295	6.475
	METAL	Lead	Edens and Garlich,1983	*Coturnix japonica*	0.8	0.19	1.78	4.552	0.269	2.520
	METAL	Nickel	Cain and Pafford 1981	mallard	0.782	17.6	77.4	4.552	25.033	110.088
	METAL	Selenium	Heinz et al. 1989	mallard	1	0.4	0.8	4.552	0.542	1.083
	METAL	Vanadium	White and Dieter 1978	mallard	1.17	11.4	NA	4.552	14.959	NA
	METAL	Zinc	Stahl et al. 1990	chicken	1.766	14.5	131	4.552	17.523	158.312
	DIOXIN/FURAN	TCDD	Nosek et al. 1992	ring-necked pheasant	1	0.000014	0.00014	4.552	0.0000190	0.0001896
	DIOXIN/FURAN	TDBF	McKinney et al. 1976	1-day old chicks	0.121	0.000001	0.00001	4.552	0.0000021	0.0000207
	PEST/PCB	Aldrin	USFWS 1984	northern bobwhite	0.174	0.0073	--	4.552	0.014	NA
	PEST/PCB	Alpha- BHC	Chakravarty and Lahiri 1986; Chakravarty et al. 1986	mallard	1	5.71	8.57	4.552	7.732	11.604
	PEST/PCB	Alpha-Chlordane	Stickel et al. 1983	red-winged blackbird	0.064	2.14	10.70	4.552	5.021	25.107
	PEST/PCB	Beta-BHC	Chakravarty and Lahiri 1986; Chakravarty et al. 1986	mallard	1	5.71	8.57	4.552	7.732	11.604
	PEST/PCB	DDD	USEPA 1995b	mallard	1	NA	0.6	4.552	NA	0.812
	PEST/PCB	DDD	Anderson et al. 1975 and 1977	brown pelican	3.5	0.009	NA	4.552	0.009	NA
	PEST/PCB	DDE	USEPA 1995b	mallard	1	NA	0.6	4.552	NA	0.812
	PEST/PCB	DDE	Anderson et al. 1975 and 1977	brown pelican	3.5	0.009	NA	4.552	0.009	NA
	PEST/PCB	DDT	USEPA 1995b	mallard	1	NA	0.6	4.552	NA	0.812
	PEST/PCB	DDT	Anderson et al. 1975 and 1977	brown pelican	3.5	0.009	NA	4.552	0.009	NA
	PEST/PCB	Delta-BHC	Chakravarty and Lahiri 1986; Chakravarty et al. 1986	mallard	1	5.71	8.57	4.552	7.732	11.604
	PEST/PCB	Dieldrin	Mendenhall et al. 1983	barn owl	0.466	0.077	NA	4.552	0.121	NA
	PEST/PCB	Endosulfan Sulfate	Abiola 1992	gray partridge	0.4	10	NA	4.552	16.264	NA
	PEST/PCB	Endrin	Spann et al. 1986	mallard	1.15	0.3	NA	4.552	0.395	NA
	PEST/PCB	Endrin Aldehyde	Spann et al. 1986	mallard	1.15	0.3	NA	4.552	0.395	NA

TABLE 3-13

Receptor-Specific NOAELs and LOAELs Estimated from Literature-Derived Data Using Allometric Scaling Methods Presented in Sample et al. (1996) and Sample and Arenal (1999)[a].

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Receptor	Chemical Group	Analyte	Study	Test Species	Test BW (kg)	Normalized Test NOAEL	Normalized Test LOAEL	Receptor BW	Receptor NOAEL	Receptor LOAEL
	PEST/PCB	Endrin Ketone	Spann et al. 1986	mallard	1.15	0.3	NA	4.552	0.395	NA
	PEST/PCB	Heptachlor	Hill and Camardese 1986	quail	0.15	0.065	NA	4.552	0.129	NA
	PEST/PCB	Heptachlor Epoxide	Hill and Camardese 1986	quail	0.15	0.065	NA	4.552	0.129	NA
	PEST/PCB	Methoxychlor	NA	NA	NA	NA	NA	4.552	NA	NA
	PEST/PCB	PCBs (Aroclor 1260)	Platonow and Reinhart 1973	chicken	1.5	0.09	0.9	4.552	0.112	1.124
	SVOC	2-Methylnaphthalene	Patton and Dieter 1980	mallard	1.23	32.5	325	4.552	42.222	422.224
	SVOC	Acenaphthene	Patton and Dieter 1980	mallard	1.23	32.5	325	4.552	42.222	422.224
	SVOC	Acenaphthylene	Patton and Dieter 1980	mallard	1.23	32.5	325	4.552	42.222	422.224
	SVOC	Anthracene	Patton and Dieter 1980	mallard	1.23	32.5	325	4.552	42.222	422.224
	SVOC	Benzo(a)anthracene	Patton and Dieter 1980	mallard	1.23	32.5	325	4.552	42.222	422.224
	SVOC	Benzo(a)pyrene	Patton and Dieter 1980	mallard	1.23	32.5	325	4.552	42.222	422.224
	SVOC	Benzo(b)fluoranthene	Patton and Dieter 1980	mallard	1.23	32.5	325	4.552	42.222	422.224
	SVOC	Benzo(ghi)perylene	Patton and Dieter 1980	mallard	1.23	32.5	325	4.552	42.222	422.224
	SVOC	Benzo(k)fluoranthene	Patton and Dieter 1980	mallard	1.23	32.5	325	4.552	42.222	422.224
	SVOC	bis(2-ethylhexyl) phthalate	Peakall 1974	ringed dove	0.155	1.11	NA	4.552	2.182	NA
	SVOC	Chrysene	Patton and Dieter 1980	mallard	1.23	32.5	325	4.552	42.222	422.224
	SVOC	Dibenzo(a,h)anthracene	Patton and Dieter 1980	mallard	1.23	32.5	325	4.552	42.222	422.224
	SVOC	Dibenzofuran	NA	NA	NA	NA	NA	4.552	NA	NA
	SVOC	Di-n-butyl phthalate	Peakall 1974	ringed dove	0.155	0.111	1.11	4.552	0.218	2.182
	SVOC	Di-n-octyl phthalate	Peakall 1974	ringed dove	0.155	0.111	1.11	4.552	0.218	2.182
	SVOC	Fluoranthene	Patton and Dieter 1980	mallard	1.23	32.5	325	4.552	42.222	422.224
	SVOC	Fluorene	Patton and Dieter 1980	mallard	1.23	32.5	325	4.552	42.222	422.224
	SVOC	Indeno(1,2,3-cd)pyrene	Patton and Dieter 1980	mallard	1.23	32.5	325	4.552	42.222	422.224
	SVOC	Phenanthrene	Patton and Dieter 1980	mallard	1.23	32.5	325	4.552	42.222	422.224
	SVOC	Pyrene	Patton and Dieter 1980	mallard	1.23	32.5	325	4.552	42.222	422.224
	TPH	TPH (Gas/Diesel Range)	Szaro et al. 1981	mallard	1	500	5000	4.552	677.034	6770.340
	VOC	1,1,1-Trichloroethane	NA	NA	NA	NA	NA	4.552	NA	NA
	VOC	1,2,4-Trimethylbenzene	Patton and Dieter 1980	mallard	1.23	32.5	325	4.552	42.222	422.224
	VOC	1,3,5-Trimethylbenzene	Patton and Dieter 1980	mallard	1.23	32.5	325	4.552	42.222	422.224
	VOC	1,4-Dichlorobenzene	NA	NA	NA	NA	NA	4.552	NA	NA
	VOC	2-Chlorotoluene	NA	NA	NA	NA	NA	4.552	NA	NA
	VOC	Acetone	Hill and Camardese 1986	Coturnix japonica	0.15	52	NA	4.552	102.902	NA
	VOC	Ethylbenzene	Patton and Dieter 1980	mallard	1.23	32.5	325	4.552	42.222	422.224
	VOC	Hexachlorobutadiene	NA	NA	NA	NA	NA	4.552	NA	NA
	VOC	Isopropylbenzene (Cumene)	Patton and Dieter 1980	mallard	1.23	32.5	325	4.552	42.222	422.224
	VOC	Methyl Ethyl Ketone (2-Butanone)	NA	NA	NA	NA	NA	4.552	NA	NA
	VOC	Methylene Chloride	NA	NA	NA	NA	NA	4.552	NA	NA
	VOC	Naphthalene	Wildlife International 1985	Bobwhite	0.178	26.9	269	4.552	51.441	514.409
	VOC	n-Propylbenzene	Patton and Dieter 1980	mallard	1.23	32.5	325	4.552	42.222	422.224
	VOC	O-Xylene	Hill and Camardese 1986	Japanese Quail	0.15	50	500	4.552	98.945	989.446
	VOC	P-Cymene (4-Isopropyltoluene)	Patton and Dieter 1980	mallard	1.23	32.5	325	4.552	42.222	422.224
	VOC	Toluene	Patton and Dieter 1980	mallard	1.23	32.5	325	4.552	42.222	422.224
	VOC	Xylenes	Hill and Camardese 1986	Japanese Quail	0.15	50	500	4.552	98.945	989.446
Mammals										
Masked Shrew	METAL	Aluminum	Ondreicka et al. 1966	mouse	0.03	1.93	19.3	0.0039	2.181	21.813
	METAL	Barium	Perry et al. 1983	Rat	0.435	5.1	NA	0.0039	6.767	NA
	METAL	Beryllium	Schroeder and Mitchener 1975	rat	0.35	0.66	NA	0.0039	0.864	NA
	METAL	Chromium	MacKenzie et al. 1958	rat	0.35	3.28	NA	0.0039	4.296	NA
	METAL	Lead	Kimmel et al. 1980, Grant et al.	rat	0.35	0.92	4.7	0.0039	1.205	6.156
	METAL	Nickel	Ambrose et al. 1976	rat	0.35	5	NA	0.0039	6.549	NA

TABLE 3-13

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Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Receptor	Chemical Group	Analyte	Study	Test Species	Test BW (kg)	Normalized Test NOAEL	Normalized Test LOAEL	Receptor BW	Receptor NOAEL	Receptor LOAEL
	METAL	Selenium	Rosenfeld and Beath 1954	Rat	0.35	0.2	0.33	0.0039	0.262	0.432
	METAL	Vanadium	Schroeder et al 1968	rat	0.35	1.34	NA	0.0039	1.755	NA
	METAL	Vanadium	Domingo et al. 1986	rat	0.35	0.21	2.1	0.0039	0.275	2.750
	METAL	Zinc	Schlicker and Cox 1968	Rat	0.35	160	320	0.0039	209.556	419.112
	DIOXIN/FURAN	2,3,7,8-TCDD	Murray et al. 1979	rat	0.35	0.000001	0.00001	0.0039	0.0000013	0.0000131
	PEST/PCB	Aldrin	Treon and Cleveland 1955	rat	0.35	0.2	1	0.0039	0.262	1.310
	PEST/PCB	Alpha BHC	Grant et al .1977	rat	0.35	1.6	3.2	0.0039	2.096	4.191
	PEST/PCB	Alpha BHC	Bleavins et al. 1984	mink	1	0.014	0.14	0.0039	0.019	0.195
	PEST/PCB	Beta BHC	Van Velsen et al. 1986	rat	0.35	0.4	2	0.0039	0.524	2.619
	PEST/PCB	Alpha-Chlordane	WHO 1984	mouse	0.03	4.6	9.2	0.0039	5.199	10.398
	PEST/PCB	DDD	Fitzhugh 1948	rat	0.35	0.8	4	0.0039	1.048	5.239
	PEST/PCB	DDE	Fitzhugh 1948	rat	0.35	0.8	4	0.0039	1.048	5.239
	PEST/PCB	DDT	Fitzhugh 1948	rat	0.35	0.8	4	0.0039	1.048	5.239
	PEST/PCB	Delta BHC	Grant et al .1977	rat	0.35	1.6	3.2	0.0039	2.096	4.191
	PEST/PCB	Delta BHC	Bleavins et al. 1984	mink	1	0.014	0.14	0.0039	0.019	0.195
	PEST/PCB	Dieldrin	Treon and Cleveland 1955	rat	0.35	0.02	0.2	0.0039	0.026	0.262
	PEST/PCB	Endosulfan sulfate	Dikshith et al. 1984	rat	0.35	0.15	NA	0.0039	0.196	NA
	PEST/PCB	Endrin	Good and Ware 1969	mouse	0.03	0.092	0.92	0.0039	0.104	1.040
	PEST/PCB	Endrin Aldehyde	Good and Ware 1969	mouse	0.03	0.092	0.92	0.0039	0.104	1.040
	PEST/PCB	Endrin Ketone	Good and Ware 1969	mouse	0.03	0.092	0.92	0.0039	0.104	1.040
	PEST/PCB	Heptachlor	Crum et al. 1993	mink	1	0.1	1	0.0039	0.139	1.395
	PEST/PCB	Heptachlor Epoxide	Crum et al. 1993	mink	1	0.1	1	0.0039	0.139	1.395
	PEST/PCB	Methoxychlor	Gray et al. 1988	rat	0.35	4	8	0.0039	5.239	10.478
	PEST/PCB	Total PCBs	McCoy et al. 1995	Oldfield mouse	0.03	0.068	0.68	0.0039	0.077	0.769
	SVOC	2-Methylnaphthalene	Murata et al. 1997	Mouse	0.0425	5.03	50.3	0.0039	5.805	58.051
	SVOC	Acenaphthene	USEPA 2002	Mouse	0.03	175	350	0.0039	197.789	395.577
	SVOC	Acenaphthylene	USEPA 2002	Mouse	0.03	175	350	0.0039	197.789	395.577
	SVOC	Anthracene	USEPA 2002	Mouse	0.03	1000	NA	0.0039	1130.221	NA
	SVOC	Benzo(a)anthracene	Mackenzie and Angevine 1981	Mouse	0.03	1	10	0.0039	1.130	11.302
	SVOC	Benzo(a)pyrene	Mackenzie and Angevine 1981	Mouse	0.03	1	10	0.0039	1.130	11.302
	SVOC	Benzo(b)fluoranthene	Mackenzie and Angevine 1981	Mouse	0.03	1	10	0.0039	1.130	11.302
	SVOC	Benzo(ghi)perylene	Mackenzie and Angevine 1981	Mouse	0.03	1	10	0.0039	1.130	11.302
	SVOC	Benzo(k)fluoranthene	Mackenzie and Angevine 1981	Mouse	0.03	1	10	0.0039	1.130	11.302
	SVOC	Bis(2-ethylhexyl) phthalate	Lamb et al. 1987	mouse	0.03	18.3	183	0.0039	20.683	206.830
	SVOC	Chrysene	Mackenzie and Angevine 1981	Mouse	0.03	1	10	0.0039	1.130	11.302
	SVOC	Dibenzo(a,h)anthracene	Mackenzie and Angevine 1981	Mouse	0.03	1	10	0.0039	1.130	11.302
	SVOC	Dibenzofuran	NA	NA	NA	NA	NA	0.0039	NA	NA
	SVOC	Di-n-butyl phthalate	Lamb et al. 1987	mouse	0.03	550	1833	0.0039	621.622	2071.695
	SVOC	Di-n-octyl phthalate	Lamb et al. 1987	mouse	0.03	550	1833	0.0039	621.622	2071.695
	SVOC	Fluoranthene	USEPA 2002	Mouse	0.03	125	250	0.0039	141.278	282.555
	SVOC	Fluorene	USEPA 2002	Mouse	0.03	125	250	0.0039	141.278	282.555
	SVOC	Indeno(1,2,3-cd)pyrene	Mackenzie and Angevine 1981	Mouse	0.03	1	10	0.0039	1.130	11.302
	SVOC	Phenanthrene	USEPA 2002	Mouse	0.03	125	250	0.0039	141.278	282.555
	SVOC	Pyrene	USEPA 2002	mouse	0.03	75	125	0.0039	84.767	141.278
	TPH	TPH Gas/Diesel Range	Cooper and Mattie 1996	Rat	0.35	1000	1500	0.0039	1309.725	1964.588
	VOC	1,1,1-Trichloroethane	NA	NA	NA	NA	NA	0.0039	NA	NA
	VOC	1,2,4-Trimethylbenzene	Wolf et al. 1956	Rat	0.25	110	330	0.0039	141.190	423.571
	VOC	1,3,5-Trimethylbenzene	Wolf et al. 1956	Rat	0.25	110	330	0.0039	141.190	423.571
	VOC	1,4-Dichlorobenzene	NA	NA	NA	NA	NA	0.0039	NA	NA
	VOC	2-Chlorotoluene	NA	NA	NA	NA	NA	0.0039	NA	NA
	VOC	Acetone	USEPA 1986	rat	0.35	10	50	0.0039	13.097	65.486

TABLE 3-13

Receptor-Specific NOAELs and LOAELs Estimated from Literature-Derived Data Using Allometric Scaling Methods Presented in Sample et al. (1996) and Sample and Arenal (1999)[a].

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Receptor	Chemical Group	Analyte	Study	Test Species	Test BW (kg)	Normalized Test NOAEL	Normalized Test LOAEL	Receptor BW	Receptor NOAEL	Receptor LOAEL
	VOC	Ethylbenzene	Wolf et al. 1956	Rat	0.25	97	291	0.0039	124.504	373.513
	VOC	Hexachlorobutadiene	Harleman and Seinen	rat	0.35	12	120	0.0039	15.717	157.167
	VOC	Isopropylbenzene (Cumene)	Wolf et al. 1956	Rat	0.25	110	330	0.0039	141.190	423.571
	VOC	Methyl ethyl ketone (2-Butanone)	Cox et al. 1975	rat	0.35	1771	4571	0.0039	2319.523	5986.754
	VOC	Methylene Chloride	Serota et al. 1986, NCA 1982	rat	0.35	5.85	50	0.0039	7.662	65.486
	VOC	Naphthalene	Navarro et al. 1991	Rat	0.24	50	150	0.0039	64.020	192.061
	VOC	n-Propylbenzene	Wolf et al. 1956	Rat	0.25	110	330	0.0039	141.190	423.571
	VOC	O-Xylene	USEPA 2002	Rat	0.35	179	357	0.0039	234.441	467.572
	VOC	p-Cymeme (4-Isopropyltoluene)	Wolf et al. 1956	Rat	0.25	110	330	0.0039	141.190	423.571
	VOC	Toluene	Gospe et al. 1994	Rat	0.2	52	520	0.0039	65.857	658.569
	VOC	Xylenes	USEPA 2002	Rat	0.35	179	357	0.0039	234.441	467.572
Coyote	METAL	Aluminum	Ondreicka et al. 1966	mouse	0.03	1.93	19.3	12.9	1.341	13.414
	METAL	Barium	Perry et al. 1983	Rat	0.435	5.1	NA	12.9	4.161	NA
	METAL	Beryllium	Schroeder and Mitchener 1975	rat	0.35	0.66	NA	12.9	0.532	NA
	METAL	Chromium	MacKenzie et al. 1958	rat	0.35	3.28	NA	12.9	2.642	NA
	METAL	Lead	Kimmel et al. 1980, Grant et al.	rat	0.35	0.92	4.7	12.9	0.741	3.785
	METAL	Nickel	Ambrose et al. 1976	rat	0.35	5	NA	12.9	4.027	NA
	METAL	Selenium	Rosenfeld and Beath 1954	Rat	0.35	0.2	0.33	12.9	0.161	0.266
	METAL	Vanadium	Schroeder et al 1968	rat	0.35	1.34	NA	12.9	1.079	NA
	METAL	Vanadium	Domingo et al. 1986	rat	0.35	0.21	2.1	12.9	0.169	1.691
	METAL	Zinc	Schlicker and Cox 1968	Rat	0.35	160	320	12.9	128.863	257.726
	DIOXIN/FURAN	2,3,7,8-TCDD	Murray et al. 1979	rat	0.35	0.000001	0.00001	12.9	0.0000008	0.0000081
	PEST/PCB	Aldrin	Treon and Cleveland 1955	rat	0.35	0.2	1	12.9	0.161	0.805
	PEST/PCB	Alpha BHC	Grant et al .1977	rat	0.35	1.6	3.2	12.9	1.289	2.577
	PEST/PCB	Alpha BHC	Bleavins et al. 1984	mink	1	0.014	0.14	12.9	0.012	0.120
	PEST/PCB	Beta BHC	Van Velsen et al. 1986	rat	0.35	0.4	2	12.9	0.322	1.611
	PEST/PCB	Alpha-Chlordane	WHO 1984	mouse	0.03	4.6	9.2	12.9	3.197	6.394
	PEST/PCB	DDD	Fitzhugh 1948	rat	0.35	0.8	4	12.9	0.644	3.222
	PEST/PCB	DDE	Fitzhugh 1948	rat	0.35	0.8	4	12.9	0.644	3.222
	PEST/PCB	DDT	Fitzhugh 1948	rat	0.35	0.8	4	12.9	0.644	3.222
	PEST/PCB	Delta BHC	Grant et al. 1977	rat	0.35	1.6	3.2	12.9	1.289	2.577
	PEST/PCB	Delta BHC	Bleavins et al. 1984	mink	1	0.014	0.14	12.9	0.012	0.120
	PEST/PCB	Dieldrin	Treon and Cleveland 1955	rat	0.35	0.02	0.2	12.9	0.016	0.161
	PEST/PCB	Endosulfan sulfate	Dikshith et al. 1984	rat	0.35	0.15	NA	12.9	0.121	NA
	PEST/PCB	Endrin	Good and Ware 1969	mouse	0.03	0.092	0.92	12.9	0.064	0.639
	PEST/PCB	Endrin Aldehyde	Good and Ware 1969	mouse	0.03	0.092	0.92	12.9	0.064	0.639
	PEST/PCB	Endrin Ketone	Good and Ware 1969	mouse	0.03	0.092	0.92	12.9	0.064	0.639
	PEST/PCB	Heptachlor	Crum et al. 1993	mink	1	0.1	1	12.9	0.086	0.858
	PEST/PCB	Heptachlor Epoxide	Crum et al. 1993	mink	1	0.1	1	12.9	0.086	0.858
	PEST/PCB	Methoxychlor	Gray et al. 1988	rat	0.35	4	8	12.9	3.222	6.443
	PEST/PCB	Total PCBs	McCoy et al. 1995	Oldfield mouse	0.03	0.068	0.68	12.9	0.047	0.473
	SVOC	2-Methylnaphthalene	Murata et al. 1997	Mouse	0.0425	5.03	50.3	12.9	3.570	35.697
	SVOC	Acenaphthene	USEPA 2002	Mouse	0.03	175	350	12.9	121.627	243.254
	SVOC	Acenaphthylene	USEPA 2002	Mouse	0.03	175	350	12.9	121.627	243.254
	SVOC	Anthracene	USEPA 2002	Mouse	0.03	1000	NA	12.9	695.011	NA
	SVOC	Benzo(a)anthracene	Mackenzie and Angevine 1981	Mouse	0.03	1	10	12.9	0.695	6.950
	SVOC	Benzo(a)pyrene	Mackenzie and Angevine 1981	Mouse	0.03	1	10	12.9	0.695	6.950
	SVOC	Benzo(b)fluoranthene	Mackenzie and Angevine 1981	Mouse	0.03	1	10	12.9	0.695	6.950
	SVOC	Benzo(ghi)perylene	Mackenzie and Angevine 1981	Mouse	0.03	1	10	12.9	0.695	6.950
	SVOC	Benzo(k)fluoranthene	Mackenzie and Angevine 1981	Mouse	0.03	1	10	12.9	0.695	6.950

TABLE 3-13

Receptor-Specific NOAELs and LOAELs Estimated from Literature-Derived Data Using Allometric Scaling Methods Presented in Sample et al. (1996) and Sample and Arenal (1999)[a].

Baseline Ecological Risk Assessment

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Receptor	Chemical Group	Analyte	Study	Test Species	Test BW (kg)	Normalized Test NOAEL	Normalized Test LOAEL	Receptor BW	Receptor NOAEL	Receptor LOAEL
	SVOC	Bis(2-ethylhexyl) phthalate	Lamb et al. 1987	mouse	0.03	18.3	183	12.9	12.719	127.187
	SVOC	Chrysene	Mackenzie and Angevine 1981	Mouse	0.03	1	10	12.9	0.695	6.950
	SVOC	Dibenzo(a,h)anthracene	Mackenzie and Angevine 1981	Mouse	0.03	1	10	12.9	0.695	6.950
	SVOC	Dibenzofuran	NA	NA	NA	NA	NA	12.9	NA	NA
	SVOC	Di-n-butyl phthalate	Lamb et al. 1987	mouse	0.03	550	1833	12.9	382.256	1273.956
	SVOC	Di-n-octyl phthalate	Lamb et al. 1987	mouse	0.03	550	1833	12.9	382.256	1273.956
	SVOC	Fluoranthene	USEPA 2002	Mouse	0.03	125	250	12.9	86.876	173.753
	SVOC	Fluorene	USEPA 2002	Mouse	0.03	125	250	12.9	86.876	173.753
	SVOC	Indeno(1,2,3-cd)pyrene	Mackenzie and Angevine 1981	Mouse	0.03	1	10	12.9	0.695	6.950
	SVOC	Phenanthrene	USEPA 2002	Mouse	0.03	125	250	12.9	86.876	173.753
	SVOC	Pyrene	USEPA 2002	mouse	0.03	75	125	12.9	52.126	86.876
	TPH	TPH Gas/Diesel Range	Cooper and Mattie 1996	Rat	0.35	1000	1500	12.9	805.395	1208.092
	VOC	1,1,1-Trichloroethane	NA	NA	NA	NA	NA	12.9	NA	NA
	VOC	1,2,4-Trimethylbenzene	Wolf et al. 1956	Rat	0.25	110	330	12.9	86.823	260.468
	VOC	1,3,5-Trimethylbenzene	Wolf et al. 1956	Rat	0.25	110	330	12.9	86.823	260.468
	VOC	1,4-Dichlorobenzene	NA	NA	NA	NA	NA	12.9	NA	NA
	VOC	2-Chlorotoluene	NA	NA	NA	NA	NA	12.9	NA	NA
	VOC	Acetone	USEPA 1986	rat	0.35	10	50	12.9	8.054	40.270
	VOC	Ethylbenzene	Wolf et al. 1956	Rat	0.25	97	291	12.9	76.562	229.686
	VOC	Hexachlorobutadiene	Harleman and Seinen	rat	0.35	12	120	12.9	9.665	96.647
	VOC	Isopropylbenzene (Cumene)	Wolf et al. 1956	Rat	0.25	110	330	12.9	86.823	260.468
	VOC	Methyl ethyl ketone (2-Butanone)	Cox et al. 1975	rat	0.35	1771	4571	12.9	1426.354	3681.459
	VOC	Methylene Chloride	Serota et al. 1986, NCA 1982	rat	0.35	5.85	50	12.9	4.712	40.270
	VOC	Naphthalene	Navarro et al. 1991	Rat	0.24	50	150	12.9	39.368	118.105
	VOC	n-Propylbenzene	Wolf et al. 1956	Rat	0.25	110	330	12.9	86.823	260.468
	VOC	O-Xylene	USEPA 2002	Rat	0.35	179	357	12.9	144.166	287.526
	VOC	p-Cymeme (4-Isopropyltoluene)	Wolf et al. 1956	Rat	0.25	110	330	12.9	86.823	260.468
	VOC	Toluene	Gospe et al. 1994	Rat	0.2	52	520	12.9	40.498	404.976
	VOC	Xylenes	USEPA 2002	Rat	0.35	179	357	12.9	144.166	287.526
Moose	METAL	Aluminum	Ondreicka et al. 1966	mouse	0.03	1.93	19.3	635	1.062	10.617
	METAL	Barium	Perry et al. 1983	Rat	0.435	5.1	NA	635	3.294	NA
	METAL	Beryllium	Schroeder and Mitchener 1975	rat	0.35	0.66	NA	635	0.421	NA
	METAL	Chromium	MacKenzie et al. 1958	rat	0.35	3.28	NA	635	2.091	NA
	METAL	Lead	Kimmel et al. 1980, Grant et al.	rat	0.35	0.92	4.7	635	0.586	2.996
	METAL	Nickel	Ambrose et al. 1976	rat	0.35	5	NA	635	3.187	NA
	METAL	Selenium	Rosenfeld and Beath 1954	Rat	0.35	0.2	0.33	635	0.127	0.210
	METAL	Vanadium	Schroeder et al 1968	rat	0.35	1.34	NA	635	0.854	NA
	METAL	Vanadium	Domingo et al. 1986	rat	0.35	0.21	2.1	635	0.134	1.339
	METAL	Zinc	Schlicker and Cox 1968	Rat	0.35	160	320	635	101.999	203.999
	DIOXIN/FURAN	2,3,7,8-TCDD	Murray et al. 1979	rat	0.35	0.000001	0.00001	635	0.0000006	0.0000064
	PEST/PCB	Aldrin	Treon and Cleveland 1955	rat	0.35	0.2	1	635	0.127	0.637
	PEST/PCB	Alpha BHC	Grant et al .1977	rat	0.35	1.6	3.2	635	1.020	2.040
	PEST/PCB	Alpha BHC	Bleavins et al. 1984	mink	1	0.014	0.14	635	0.009	0.095
	PEST/PCB	Beta BHC	Van Velsen et al. 1986	rat	0.35	0.4	2	635	0.255	1.275
	PEST/PCB	Alpha-Chlordane	WHO 1984	mouse	0.03	4.6	9.2	635	2.531	5.061
	PEST/PCB	DDD	Fitzhugh 1948	rat	0.35	0.8	4	635	0.510	2.550
	PEST/PCB	DDE	Fitzhugh 1948	rat	0.35	0.8	4	635	0.510	2.550
	PEST/PCB	DDT	Fitzhugh 1948	rat	0.35	0.8	4	635	0.510	2.550
	PEST/PCB	Delta BHC	Grant et al .1977	rat	0.35	1.6	3.2	635	1.020	2.040
	PEST/PCB	Delta BHC	Bleavins et al. 1984	mink	1	0.014	0.14	635	0.009	0.095

TABLE 3-13

Receptor-Specific NOAELs and LOAELs Estimated from Literature-Derived Data Using Allometric Scaling Methods Presented in Sample et al. (1996) and Sample and Arenal (1999)[a].

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Receptor	Chemical Group	Analyte	Study	Test Species	Test BW (kg)	Normalized Test NOAEL	Normalized Test LOAEL	Receptor BW	Receptor NOAEL	Receptor LOAEL
	PEST/PCB	Dieldrin	Treon and Cleveland 1955	rat	0.35	0.02	0.2	635	0.013	0.127
	PEST/PCB	Endosulfan sulfate	Dikshith et al. 1984	rat	0.35	0.15	NA	635	0.096	NA
	PEST/PCB	Endrin	Good and Ware 1969	mouse	0.03	0.092	0.92	635	0.051	0.506
	PEST/PCB	Endrin Aldehyde	Good and Ware 1969	mouse	0.03	0.092	0.92	635	0.051	0.506
	PEST/PCB	Endrin Ketone	Good and Ware 1969	mouse	0.03	0.092	0.92	635	0.051	0.506
	PEST/PCB	Heptachlor	Crum et al. 1993	mink	1	0.1	1	635	0.068	0.679
	PEST/PCB	Heptachlor Epoxide	Crum et al. 1993	mink	1	0.1	1	635	0.068	0.679
	PEST/PCB	Methoxychlor	Gray et al. 1988	rat	0.35	4	8	635	2.550	5.100
	PEST/PCB	Total PCBs	McCoy et al. 1995	Oldfield mouse	0.03	0.068	0.68	635	0.037	0.374
	SVOC	2-Methylnaphthalene	Murata et al. 1997	Mouse	0.0425	5.03	50.3	635	2.826	28.256
	SVOC	Acenaphthene	USEPA 2002	Mouse	0.03	175	350	635	96.272	192.544
	SVOC	Acenaphthylene	USEPA 2002	Mouse	0.03	175	350	635	96.272	192.544
	SVOC	Anthracene	USEPA 2002	Mouse	0.03	1000	NA	635	550.124	NA
	SVOC	Benzo(a)anthracene	Mackenzie and Angevine 1981	Mouse	0.03	1	10	635	0.550	5.501
	SVOC	Benzo(a)pyrene	Mackenzie and Angevine 1981	Mouse	0.03	1	10	635	0.550	5.501
	SVOC	Benzo(b)fluoranthene	Mackenzie and Angevine 1981	Mouse	0.03	1	10	635	0.550	5.501
	SVOC	Benzo(ghi)perylene	Mackenzie and Angevine 1981	Mouse	0.03	1	10	635	0.550	5.501
	SVOC	Benzo(k)fluoranthene	Mackenzie and Angevine 1981	Mouse	0.03	1	10	635	0.550	5.501
	SVOC	Bis(2-ethylhexyl) phthalate	Lamb et al. 1987	mouse	0.03	18.3	183	635	10.067	100.673
	SVOC	Chrysene	Mackenzie and Angevine 1981	Mouse	0.03	1	10	635	0.550	5.501
	SVOC	Dibenzo(a,h)anthracene	Mackenzie and Angevine 1981	Mouse	0.03	1	10	635	0.550	5.501
	SVOC	Dibenzofuran	NA	NA	NA	NA	NA	635	NA	NA
	SVOC	Di-n-butyl phthalate	Lamb et al. 1987	mouse	0.03	550	1833	635	302.568	1008.378
	SVOC	Di-n-octyl phthalate	Lamb et al. 1987	mouse	0.03	550	1833	635	302.568	1008.378
	SVOC	Fluoranthene	USEPA 2002	Mouse	0.03	125	250	635	68.766	137.531
	SVOC	Fluorene	USEPA 2002	Mouse	0.03	125	250	635	68.766	137.531
	SVOC	Indeno(1,2,3-cd)pyrene	Mackenzie and Angevine 1981	Mouse	0.03	1	10	635	0.550	5.501
	SVOC	Phenanthrene	USEPA 2002	Mouse	0.03	125	250	635	68.766	137.531
	SVOC	Pyrene	USEPA 2002	mouse	0.03	75	125	635	41.259	68.766
	TPH	TPH Gas/Diesel Range	Cooper and Mattie 1996	Rat	0.35	1000	1500	635	637.496	956.244
	VOC	1,1,1-Trichloroethane	NA	NA	NA	NA	NA	635	NA	NA
	VOC	1,2,4-Trimethylbenzene	Wolf et al. 1956	Rat	0.25	110	330	635	68.723	206.169
	VOC	1,3,5-Trimethylbenzene	Wolf et al. 1956	Rat	0.25	110	330	635	68.723	206.169
	VOC	1,4-Dichlorobenzene	NA	NA	NA	NA	NA	635	NA	NA
	VOC	2-Chlorotoluene	NA	NA	NA	NA	NA	635	NA	NA
	VOC	Acetone	USEPA 1986	rat	0.35	10	50	635	6.375	31.875
	VOC	Ethylbenzene	Wolf et al. 1956	Rat	0.25	97	291	635	60.601	181.804
	VOC	Hexachlorobutadiene	Harleman and Seinen	rat	0.35	12	120	635	7.650	76.500
	VOC	Isopropylbenzene (Cumene)	Wolf et al. 1956	Rat	0.25	110	330	635	68.723	206.169
	VOC	Methyl ethyl ketone (2-Butanone)	Cox et al. 1975	rat	0.35	1771	4571	635	1129.006	2913.996
	VOC	Methylene Chloride	Serota et al. 1986, NCA 1982	rat	0.35	5.85	50	635	3.729	31.875
	VOC	Naphthalene	Navarro et al. 1991	Rat	0.24	50	150	635	31.161	93.484
	VOC	n-Propylbenzene	Wolf et al. 1956	Rat	0.25	110	330	635	68.723	206.169
	VOC	O-Xylene	USEPA 2002	Rat	0.35	179	357	635	114.112	227.586
	VOC	p-Cymeme (4-Isopropyltoluene)	Wolf et al. 1956	Rat	0.25	110	330	635	68.723	206.169
	VOC	Toluene	Gospe et al. 1994	Rat	0.2	52	520	635	32.055	320.552
	VOC	Xylenes	USEPA 2002	Rat	0.35	179	357	635	114.112	227.586
Red-Backed Vole	METAL	Aluminum	Ondreicka et al. 1966	mouse	0.03	1.93	19.3	0.022	1.966	19.663
	METAL	Barium	Perry et al. 1983	Rat	0.435	5.1	NA	0.022	6.100	NA
	METAL	Beryllium	Schroeder and Mitchener 1975	rat	0.35	0.66	NA	0.022	0.779	NA

TABLE 3-13

Receptor-Specific NOAELs and LOAELs Estimated from Literature-Derived Data Using Allometric Scaling Methods Presented in Sample et al. (1996) and Sample and Arenal (1999)[a].

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Receptor	Chemical Group	Analyte	Study	Test Species	Test BW (kg)	Normalized Test NOAEL	Normalized Test LOAEL	Receptor BW	Receptor NOAEL	Receptor LOAEL
	METAL	Chromium	MacKenzie et al. 1958	rat	0.35	3.28	NA	0.022	3.872	NA
	METAL	Lead	Kimmel et al. 1980, Grant et al.	rat	0.35	0.92	4.7	0.022	1.086	5.549
	METAL	Nickel	Ambrose et al. 1976	rat	0.35	5	NA	0.022	5.903	NA
	METAL	Selenium	Rosenfeld and Beath 1954	Rat	0.35	0.2	0.33	0.022	0.236	0.390
	METAL	Vanadium	Schroeder et al 1968	rat	0.35	1.34	NA	0.022	1.582	NA
	METAL	Vanadium	Domingo et al. 1986	rat	0.35	0.21	2.1	0.022	0.248	2.479
	METAL	Zinc	Schlicker and Cox 1968	Rat	0.35	160	320	0.022	188.894	377.788
	DIOXIN/FURAN	2,3,7,8-TCDD	Murray et al. 1979	rat	0.35	0.000001	0.00001	0.022	0.0000012	0.0000118
	PEST/PCB	Aldrin	Treon and Cleveland 1955	rat	0.35	0.2	1	0.022	0.236	1.181
	PEST/PCB	Alpha BHC	Grant et al .1977	rat	0.35	1.6	3.2	0.022	1.889	3.778
	PEST/PCB	Alpha BHC	Bleavins et al. 1984	mink	1	0.014	0.14	0.022	0.017	0.176
	PEST/PCB	Beta BHC	Van Velsen et al. 1986	rat	0.35	0.4	2	0.022	0.472	2.361
	PEST/PCB	Alpha-Chlordane	WHO 1984	mouse	0.03	4.6	9.2	0.022	4.686	9.373
	PEST/PCB	DDD	Fitzhugh 1948	rat	0.35	0.8	4	0.022	0.944	4.722
	PEST/PCB	DDE	Fitzhugh 1948	rat	0.35	0.8	4	0.022	0.944	4.722
	PEST/PCB	DDT	Fitzhugh 1948	rat	0.35	0.8	4	0.022	0.944	4.722
	PEST/PCB	Delta BHC	Grant et al .1977	rat	0.35	1.6	3.2	0.022	1.889	3.778
	PEST/PCB	Delta BHC	Bleavins et al. 1984	mink	1	0.014	0.14	0.022	0.017	0.176
	PEST/PCB	Dieldrin	Treon and Cleveland 1955	rat	0.35	0.02	0.2	0.022	0.024	0.236
	PEST/PCB	Endosulfan sulfate	Dikshith et al. 1984	rat	0.35	0.15	NA	0.022	0.177	NA
	PEST/PCB	Endrin	Good and Ware 1969	mouse	0.03	0.092	0.92	0.022	0.094	0.937
	PEST/PCB	Endrin Aldehyde	Good and Ware 1969	mouse	0.03	0.092	0.92	0.022	0.094	0.937
	PEST/PCB	Endrin Ketone	Good and Ware 1969	mouse	0.03	0.092	0.92	0.022	0.094	0.937
	PEST/PCB	Heptachlor	Crum et al. 1993	mink	1	0.1	1	0.022	0.126	1.257
	PEST/PCB	Heptachlor Epoxide	Crum et al. 1993	mink	1	0.1	1	0.022	0.126	1.257
	PEST/PCB	Methoxychlor	Gray et al. 1988	rat	0.35	4	8	0.022	4.722	9.445
	PEST/PCB	Total PCBs	McCoy et al. 1995	Oldfield mouse	0.03	0.068	0.68	0.022	0.069	0.693
	SVOC	2-Methylnaphthalene	Murata et al. 1997	Mouse	0.0425	5.03	50.3	0.022	5.233	52.327
	SVOC	Acenaphthene	USEPA 2002	Mouse	0.03	175	350	0.022	178.287	356.574
	SVOC	Acenaphthylene	USEPA 2002	Mouse	0.03	175	350	0.022	178.287	356.574
	SVOC	Anthracene	USEPA 2002	Mouse	0.03	1000	NA	0.022	1018.784	NA
	SVOC	Benzo(a)anthracene	Mackenzie and Angevine 1981	Mouse	0.03	1	10	0.022	1.019	10.188
	SVOC	Benzo(a)pyrene	Mackenzie and Angevine 1981	Mouse	0.03	1	10	0.022	1.019	10.188
	SVOC	Benzo(b)fluoranthene	Mackenzie and Angevine 1981	Mouse	0.03	1	10	0.022	1.019	10.188
	SVOC	Benzo(ghi)perylene	Mackenzie and Angevine 1981	Mouse	0.03	1	10	0.022	1.019	10.188
	SVOC	Benzo(k)fluoranthene	Mackenzie and Angevine 1981	Mouse	0.03	1	10	0.022	1.019	10.188
	SVOC	Bis(2-ethylhexyl) phthalate	Lamb et al. 1987	mouse	0.03	18.3	183	0.022	18.644	186.437
	SVOC	Chrysene	Mackenzie and Angevine 1981	Mouse	0.03	1	10	0.022	1.019	10.188
	SVOC	Dibenzo(a,h)anthracene	Mackenzie and Angevine 1981	Mouse	0.03	1	10	0.022	1.019	10.188
	SVOC	Dibenzofuran	NA	NA	NA	NA	NA	0.022	NA	NA
	SVOC	Di-n-butyl phthalate	Lamb et al. 1987	mouse	0.03	550	1833	0.022	560.331	1867.430
	SVOC	Di-n-octyl phthalate	Lamb et al. 1987	mouse	0.03	550	1833	0.022	560.331	1867.430
	SVOC	Fluoranthene	USEPA 2002	Mouse	0.03	125	250	0.022	127.348	254.696
	SVOC	Fluorene	USEPA 2002	Mouse	0.03	125	250	0.022	127.348	254.696
	SVOC	Indeno(1,2,3-cd)pyrene	Mackenzie and Angevine 1981	Mouse	0.03	1	10	0.022	1.019	10.188
	SVOC	Phenanthrene	USEPA 2002	Mouse	0.03	125	250	0.022	127.348	254.696
	SVOC	Pyrene	USEPA 2002	mouse	0.03	75	125	0.022	76.409	127.348
	TPH	TPH Gas/Diesel Range	Cooper and Mattie 1996	Rat	0.35	1000	1500	0.022	1180.589	1770.883
	VOC	1,1,1-Trichloroethane	NA	NA	NA	NA	NA	0.022	NA	NA
	VOC	1,2,4-Trimethylbenzene	Wolf et al. 1956	Rat	0.25	110	330	0.022	127.269	381.808
	VOC	1,3,5-Trimethylbenzene	Wolf et al. 1956	Rat	0.25	110	330	0.022	127.269	381.808

TABLE 3-13

Receptor-Specific NOAELs and LOAELs Estimated from Literature-Derived Data Using Allometric Scaling Methods Presented in Sample et al. (1996) and Sample and Arenal (1999)[a].

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Receptor	Chemical Group	Analyte	Study	Test Species	Test BW (kg)	Normalized Test NOAEL	Normalized Test LOAEL	Receptor BW	Receptor NOAEL	Receptor LOAEL
	VOC	1,4-Dichlorobenzene	NA	NA	NA	NA	NA	0.022	NA	NA
	VOC	2-Chlorotoluene	NA	NA	NA	NA	NA	0.022	NA	NA
	VOC	Acetone	USEPA 1986	rat	0.35	10	50	0.022	11.806	59.029
	VOC	Ethylbenzene	Wolf et al. 1956	Rat	0.25	97	291	0.022	112.228	336.685
	VOC	Hexachlorobutadiene	Harleman and Seinen	rat	0.35	12	120	0.022	14.167	141.671
	VOC	Isopropylbenzene (Cumene)	Wolf et al. 1956	Rat	0.25	110	330	0.022	127.269	381.808
	VOC	Methyl ethyl ketone (2-Butanone)	Cox et al. 1975	rat	0.35	1771	4571	0.022	2090.823	5396.472
	VOC	Methylene Chloride	Serota et al. 1986, NCA 1982	rat	0.35	5.85	50	0.022	6.906	59.029
	VOC	Naphthalene	Navarro et al. 1991	Rat	0.24	50	150	0.022	57.708	173.125
	VOC	n-Propylbenzene	Wolf et al. 1956	Rat	0.25	110	330	0.022	127.269	381.808
	VOC	O-Xylene	USEPA 2002	Rat	0.35	179	357	0.022	211.325	421.470
	VOC	p-Cymeme (4-Isopropyltoluene)	Wolf et al. 1956	Rat	0.25	110	330	0.022	127.269	381.808
	VOC	Toluene	Gospe et al. 1994	Rat	0.2	52	520	0.022	59.364	593.635
	VOC	Xylenes	USEPA 2002	Rat	0.35	179	357	0.022	211.325	421.470

[a] Calculations are based on toxicity values and body weights for test species from Table 3-12 and body weights for receptors from Tables 3-1 to 3-6. Scaling factors of 0.94 and 1.2 were applied for mammals and birds, respectively (Sample and Arenal 1999). Allometric equation is in the form of NOAELreceptor = NOAELtest (BWtest/BWreceptor)(1-scaling factor).

[b] NA = Toxicity values for this analyte were not available.

SECTION 4

Risk Characterization

In the risk characterization, an estimate of risk is developed by integrating the exposure and effects analyses. This is determined by quantitatively and/or qualitatively evaluating the exposure assessment and the ecological effects assessment. Potential risk to receptors at OUE was determined using both quantitative and qualitative evaluations.

4.1 Risk Estimation

The components of the quantitative and qualitative evaluations, and the results of risk estimation, are described below. The risk description is presented in Section 4.2.

4.1.1 Quantitative Evaluation

The hazard quotient (HQ = exposure measure/effects measure) approach was used to quantitatively evaluate potential risks to identified receptors. Tables 4-1 through 4-4 present calculated HQs for each receptor evaluated.

4.1.1.1 Terrestrial Plants

For these receptors, the maximum detected soil concentration (0 to 6 feet bgs) for each COPEC was divided by its respective toxicity benchmark. COPECs with HQs less than 1 were considered to pose no risk to terrestrial plants. HQs greater than 1 indicate a potential risk, but this does not necessarily indicate the presence of risk. Rather, these results indicate that available data are insufficient to support a conclusion that ecological risks are absent. COPECs with HQs equal to or greater than 1 were further evaluated in a qualitative manner. Calculated HQs for terrestrial plants at Building 35-752 and the AVMA are presented in Tables 4-1 and 4-2, respectively.

4.1.1.2 Terrestrial Invertebrates

For these receptors, the maximum detected soil concentration (0 to 6 feet bgs) for each COPEC was divided by the respective toxicity benchmark. COPECs with HQs less than 1 were considered to pose no risk to terrestrial invertebrates. HQs greater than 1 indicate a potential risk. However, as for plants, this does not necessarily indicate the presence of risk. Instead, these results indicate that available data are insufficient to support a conclusion that ecological risks are absent. COPECs with HQs equal to or greater than 1 were further evaluated in a qualitative manner. Calculated HQs for terrestrial invertebrates at Building 35-752 and the AVMA are presented in Tables 4-1 and 4-2, respectively.

4.1.1.3 Birds and Mammals

For birds and mammals, an HQ was calculated for each COPEC and each receptor by dividing the receptor's estimated exposure (mg/kg/day) by the respective estimated NOAEL and/or LOAEL TRV. Tables 4-3 and 4-4 present the total estimated exposures to each receptor species through media ingestion; the estimated NOAEL and/or LOAEL based

TABLE 4-1
Building 35-752—Hazard Quotient Calculations for Terrestrial Plants and Invertebrates
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Chemical Group	Analytes	Number of Samples	Number of Detects	Frequency of Detection	Maximum Detect (mg/kg)	Plant Benchmark (mg/kg)	Plant HQ	Invertebrate Benchmark (mg/kg)	Invertebrate HQ
DIOXIN/FURANS	1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	18	15	83%	1.66E-04				
DIOXIN/FURANS	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN	18	17	94%	5.18E-04				
DIOXIN/FURANS	1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	18	12	67%	2.37E-05				
DIOXIN/FURANS	1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	18	14	78%	5.81E-05				
DIOXIN/FURANS	1,2,3,4,7,8-HEXACHLORODIBENZO-p-DIOXIN	18	4	22%	2.60E-06				
DIOXIN/FURANS	1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	18	12	67%	6.80E-06				
DIOXIN/FURANS	1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	18	10	56%	1.17E-05				
DIOXIN/FURANS	1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	18	7	39%	6.20E-06				
DIOXIN/FURANS	1,2,3,7,8-PENTACHLORODIBENZOFURAN	18	1	6%	8.32E-05				
DIOXIN/FURANS	1,2,3,7,8-PENTACHLORODIBENZO-p-DIOXIN	18	1	6%	6.40E-07				
DIOXIN/FURANS	2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	18	11	61%	4.70E-06				
DIOXIN/FURANS	2,3,4,7,8-PENTACHLORODIBENZOFURAN	18	8	44%	4.90E-06				
DIOXIN/FURANS	2,3,7,8-TETRACHLORODIBENZOFURAN	18	11	61%	5.20E-06				
DIOXIN/FURANS	2,3,7,8-TETRACHLORODIBENZO-p-DIOXIN	18	1	6%	2.60E-07			5	0.000
DIOXIN/FURANS	HEPTACHLORINATED DIBENZOFURANS, (TOTAL)	16	15	94%	8.67E-04				
DIOXIN/FURANS	HEPTACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	16	15	94%	8.20E-04				
DIOXIN/FURANS	HEXACHLORINATED DIBENZOFURANS, (TOTAL)	16	15	94%	3.78E-04				
DIOXIN/FURANS	HEXACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	16	14	88%	5.33E-05				
DIOXIN/FURANS	OCTACHLORODIBENZOFURAN	18	15	83%	7.87E-04				
DIOXIN/FURANS	OCTACHLORODIBENZO-p-DIOXIN	18	18	100%	0.0045				
DIOXIN/FURANS	PENTACHLORINATED DIBENZOFURANS, (TOTAL)	16	15	94%	2.10E-04				
DIOXIN/FURANS	PENTACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	16	7	44%	8.60E-06				
DIOXIN/FURANS	TETRACHLORINATED DIBENZOFURANS, (TOTAL)	16	14	88%	1.28E-04				
DIOXIN/FURANS	TETRACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	16	11	69%	5.60E-06				
METAL	BARIUM	49	49	100%	220	500	0.440	85	2.588
METAL	CHROMIUM, TOTAL	49	49	100%	64	1	64.000	0.4	160.000
METAL	LEAD	49	48	98%	200	50	4.000	500	0.400
METAL	ZINC	9	9	100%	86	50	1.720	200	0.430
PEST/PCB	ALDRIN	52	6	12%	0.0030	12.5	0.000		
PEST/PCB	BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	52	1	2%	0.0060	250	0.000		
PEST/PCB	DIELDRIN	52	10	19%	0.011	3.125	0.004		
PEST/PCB	ENDRIN	52	1	2%	0.034				
PEST/PCB	ENDRIN ALDEHYDE	52	1	2%	0.0030				
PEST/PCB	p,p'-DDD	52	22	42%	0.74	3.125	0.237		
PEST/PCB	p,p'-DDE	52	16	31%	0.030	3.125	0.010		
PEST/PCB	p,p'-DDT	49	15	31%	0.31	3.125	0.099		
PEST/PCB	PCB-1260 (AROCLOR 1260)	111	96	86%	100	40	2.498	91.5	1.092
SVOC	2-METHYLNAPHTHALENE	52	1	2%	0.026				
SVOC	ACENAPHTHENE	52	1	2%	0.023	20	0.001	31	0.001
SVOC	ACENAPHTHYLENE	52	1	2%	0.012			23	0.001
SVOC	ANTHRACENE	52	3	6%	1.2			5	0.240
SVOC	BENZO(a)ANTHRACENE	52	11	21%	1.5			980	0.002
SVOC	BENZO(a)PYRENE	52	12	23%	1.2	3.3	0.364	840	0.001
SVOC	BENZO(b)FLUORANTHENE	52	16	31%	2.0			360	0.006
SVOC	BENZO(g,h,i)PERYLENE	52	4	8%	0.50				
SVOC	BENZO(k)FLUORANTHENE	52	16	31%	1.3			560	0.002

TABLE 4-1

Building 35-752—Hazard Quotient Calculations for Terrestrial Plants and Invertebrates

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Chemical Group	Analytes	Number of Samples	Number of Detects	Frequency of Detection	Maximum Detect (mg/kg)	Plant Benchmark (mg/kg)	Plant HQ	Invertebrate Benchmark (mg/kg)	Invertebrate HQ
SVOC	bis(2-ETHYLHEXYL) PHTHALATE	51	14	27%	7.0				
SVOC	CHRYSENE	52	16	31%	2.4			1030	0.002
SVOC	DIBENZ(a,h)ANTHRACENE	52	1	2%	0.016			780	0.000
SVOC	DIBENZOFURAN	52	1	2%	0.027			14	0.002
SVOC	DI-n-OCTYLPHTHALATE	51	3	6%	1.3				
SVOC	FLUORANTHENE	52	17	33%	5.7			47	0.121
SVOC	FLUORENE	52	2	4%	0.10			30	0.003
SVOC	INDENO(1,2,3-c,d)PYRENE	52	5	10%	0.50			910	0.001
SVOC	PHENANTHRENE	52	15	29%	3.5			21	0.167
SVOC	PYRENE	52	18	35%	5.4			13	0.415
TPH	DIESEL RANGE ORGANICS	56	46	82%	2,300				
TPH	GASOLINE RANGE ORGANICS	49	3	6%	0.35				
TPH	TOTAL PETROLEUM HYDROCARBONS	34	32	94%	1,500				
VOC	1,1,1-TRICHLOROETHANE	50	2	4%	0.014				
VOC	1,2,4-TRIMETHYLBENZENE	50	3	6%	0.034				
VOC	1,3,5-TRIMETHYLBENZENE (MESITYLENE)	50	2	4%	0.0040				
VOC	1,4-DICHLOROBENZENE	51	3	6%	0.015			20	0.001
VOC	2-CHLOROTOLUENE	50	2	4%	0.010				
VOC	ACETONE	50	19	38%	0.57	125.75	0.004		
VOC	ETHYLBENZENE	52	1	2%	0.0060	6	0.001	113	0.000
VOC	METHYL ETHYL KETONE (2-BUTANONE)	50	15	30%	0.11				
VOC	METHYLENE CHLORIDE	50	1	2%	0.020	680.5	0.000		
VOC	NAPHTHALENE	52	3	6%	0.031	3	0.010	20	0.002
VOC	n-PROPYLBENZENE	50	2	4%	0.18				
VOC	P-CYMENE (p-ISOPROPYLTOLUENE)	50	1	2%	0.13				
VOC	TOLUENE	52	7	13%	0.023	7	0.003	44	0.001
VOC	TRICHLOROETHYLENE (TCE)	50	4	8%	0.016				
VOC	XYLENES, TOTAL	50	7	14%	0.038	5	0.008	56	0.001

Notes:

HQ = Hazard Quotient = maximum soil concentration/plant or invertebrate benchmark

Shaded cells represent HQs equal to or greater than 1.

TABLE 4-2
AVMA—Hazard Quotient Calculations for Terrestrial Plants and Invertebrates
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Chemical Group	Analytes	Number of Samples	Number of Detects	Frequency of Detection	Maximum Detect (mg/kg)	Plant Benchmark (mg/kg)	Plant HQ	Invert Benchmark (mg/kg)	Invert HQ
METAL	ALUMINUM	17	17	100%	26,100	50	522.000		
METAL	ARSENIC	19	16	84%	11	10	1.100	60	0.183
METAL	BARIUM	19	19	100%	120	500	0.240	85	1.412
METAL	BERYLLIUM	17	17	100%	0.54	10	0.054		
METAL	CHROMIUM, TOTAL	19	19	100%	51	1	51.000	0.4	127.500
METAL	LEAD	19	19	100%	43	50	0.860	500	0.086
METAL	MANGANESE	17	17	100%	850	500	1.700		
METAL	NICKEL	17	17	100%	62	30	2.067	200	0.310
METAL	SELENIUM	19	15	79%	11	1	11.000	70	0.157
METAL	VANADIUM	17	17	100%	87	2	43.500		
METAL	ZINC	17	17	100%	140	50	2.800	200	0.700
PEST/PCB	ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	19	4	21%	0.0011	3.125	0.000		
PEST/PCB	ALPHA-CHLORDANE	17	4	24%	0.0012				
PEST/PCB	BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	19	6	32%	0.0033	250	0.000		
PEST/PCB	DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	19	1	5%	8.60E-04	3.125	0.000		
PEST/PCB	DIELDRIN	19	3	16%	0.0021	3.125	0.001		
PEST/PCB	ENDOSULFAN SULFATE	19	5	26%	6.50E-04				
PEST/PCB	ENDRIN	19	4	21%	0.0025				
PEST/PCB	ENDRIN ALDEHYDE	19	4	21%	0.0028				
PEST/PCB	ENDRIN KETONE	19	4	21%	0.0019				
PEST/PCB	HEPTACHLOR	19	1	5%	0.0017	1000	0.000		
PEST/PCB	HEPTACHLOR EPOXIDE	19	1	5%	0.0025	1000	0.000		
PEST/PCB	METHOXYCHLOR	19	4	21%	0.0063				
PEST/PCB	p,p'-DDD	19	9	47%	0.038	3.125	0.012		
PEST/PCB	p,p'-DDE	19	11	58%	0.039	3.125	0.012		
PEST/PCB	p,p'-DDT	19	12	63%	0.24	3.125	0.077		
SVOC	2,4-DIMETHYLPHENOL	20	1	5%	0.011				
SVOC	2-METHYLNAPHTHALENE	20	7	35%	1.5				
SVOC	2-METHYLPHENOL (o-CRESOL)	20	1	5%	0.011				
SVOC	4-CHLORO-3-METHYLPHENOL	20	1	5%	0.039				
SVOC	ACENAPHTHENE	20	4	20%	3.5	20	0.175	31	0.113
SVOC	ACENAPHTHYLENE	20	1	5%	0.038				
SVOC	ANTHRACENE	20	7	35%	5.4			5	1.080
SVOC	BENZO(a)ANTHRACENE	20	8	40%	49			980	0.050
SVOC	BENZO(a)PYRENE	20	6	30%	5.1	3.3	1.545	840	0.006
SVOC	BENZO(b)FLUORANTHENE	20	6	30%	2.2			360	0.006
SVOC	BENZO(g,h,i)PERYLENE	20	5	25%	3.5				
SVOC	BENZO(k)FLUORANTHENE	20	3	15%	2.2			560	0.004
SVOC	bis(2-ETHYLHEXYL) PHTHALATE	20	9	45%	0.080				
SVOC	CHRYSENE	20	8	40%	24			1030	0.023
SVOC	DIBENZ(a,h)ANTHRACENE	20	1	5%	0.18			780	0.000
SVOC	DIBENZOFURAN	20	4	20%	1.3			14	0.093
SVOC	DI-n-BUTYL PHTHALATE	20	15	75%	0.77	200	0.004		

TABLE 4-2
AVMA—Hazard Quotient Calculations for Terrestrial Plants and Invertebrates
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Chemical Group	Analytes	Number of Samples	Number of Detects	Frequency of Detection	Maximum Detect (mg/kg)	Plant Benchmark (mg/kg)	Plant HQ	Invert Benchmark (mg/kg)	Invert HQ
SVOC	DI-n-OCTYLPHTHALATE	20	1	5%	0.10				
SVOC	FLUORANTHENE	20	7	35%	5.1			47	0.109
SVOC	FLUORENE	20	7	35%	2.9			30	0.097
SVOC	INDENO(1,2,3-c,d)PYRENE	20	4	20%	4.1			910	0.005
SVOC	PHENANTHRENE	20	8	40%	11			21	0.524
SVOC	PHENOL	20	1	5%	0.018	70	0.000	30	0.001
SVOC	PYRENE	20	8	40%	5.1			13	0.392
TPH	DIESEL RANGE ORGANICS	20	19	95%	3,800				
TPH	GASOLINE RANGE ORGANICS	20	10	50%	6.0				
VOC	1,2,3-TRICHLOROBENZENE	19	1	5%	0.0078			20	0.000
VOC	1,2,4-TRIMETHYLBENZENE	19	4	21%	0.085				
VOC	1,3,5-TRIMETHYLBENZENE (MESITYLENE)	19	3	16%	0.018				
VOC	ACETONE	19	10	53%	0.26	125.75			
VOC	BENZENE	19	3	16%	0.024	24	0.001	161	0.000
VOC	ETHYLBENZENE	19	4	21%	0.039	6	0.007	113	0.000
VOC	HEXACHLOROBUTADIENE	20	2	10%	0.024				
VOC	IODOMETHANE (METHYL IODIDE)	17	1	6%	0.085				
VOC	ISOPROPYLBENZENE (CUMENE)	19	2	11%	0.012				
VOC	METHYL ETHYL KETONE (2-BUTANONE)	19	12	63%	0.16				
VOC	METHYLENE CHLORIDE	19	16	84%	0.31	680.5	0.000		
VOC	NAPHTHALENE	20	8	40%	0.88	3	0.293	20	0.044
VOC	n-BUTYLBENZENE	19	1	5%	0.011				
VOC	O-XYLENE (1,2-DIMETHYLBENZENE)	19	3	16%	0.097				
VOC	P-CYMENE (p-ISOPROPYLTOLUENE)	19	3	16%	0.036				
VOC	STYRENE	19	1	5%	0.011	300	0.000		
VOC	tert-BUTYL METHYL ETHER	17	1	6%	0.017				
VOC	TETRACHLOROETHYLENE(PCE)	19	4	21%	0.53				
VOC	TOLUENE	19	7	37%	0.12	7	0.017	44	0.003
VOC	TRICHLOROETHYLENE (TCE)	19	4	21%	0.027				
VOC	XYLENES, m & p	19	9	47%	0.14	5	0.028	56	0.003

Notes:
HQ = Hazard Quotient = maximum soil concentration/plant or invertebrate benchmark
Shaded cells represent HQs equal to or greater than 1.

TABLE 4-3
Building 35-752—Exposure Estimates and Hazard Quotient Calculations for Birds and Mammals
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Analytes[a]	Exposure Point Concentration (mg/kg)	EPC Basis	Exposure Estimate by Pathway[b] (mg/kg/d)					NOAEL (mg/kg/d)	LOAEL (mg/kg/d)	Hazard Quotients[c]	
			Plant	Invertebrate	Mammal	Soil	Total			NOAEL HQ	LOAEL HQ
American Robin											
METALS											
BARIUM	98	Log Normal	0.4068	0.7944	0	0.2381	1.4393	19.041	38.082	0.076	0.038
CHROMIUM, TOTAL	38	Log Normal	0.0421	1.0521	0	0.0938	1.1880	0.573	2.866	2.073	0.415
LEAD	57	Log Normal	0.0685	1.8846	0	0.1396	2.0928	0.119	1.115	17.6	1.88
NICKEL	39	Log Normal	0.0443	3.6439	0	0.0938	3.7821	11.079	48.723	0.341	0.078
ZINC	73	Log Normal	1.3934	31.1993	0	0.1776	32.7704	7.755	70.066	4.23	0.468
DIOXINS/FURANS											
1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	1.66E-04	Max Detect	8.07E-08	8.93E-02	0	4.04E-07	8.93E-02	NA	NA	NA	NA
1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN	5.18E-04	Max Detect	1.97E-07	1.60E-03	0	1.26E-06	1.60E-03	NA	NA	NA	NA
1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	2.37E-05	Max Detect	1.15E-08	7.25E-05	0	5.77E-08	7.25E-05	NA	NA	NA	NA
1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	5.81E-05	Max Detect	2.83E-08	1.78E-04	0	1.42E-07	1.78E-04	NA	NA	NA	NA
1,2,3,4,7,8-HEXACHLORODIBENZO-p-DIOXIN	2.60E-06	Max Detect	1.41E-09	7.91E-06	0	6.33E-09	7.92E-06	NA	NA	NA	NA
1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	6.80E-06	Max Detect	3.31E-09	2.08E-05	0	1.66E-08	2.08E-05	NA	NA	NA	NA
1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	1.17E-05	Max Detect	4.40E-09	3.62E-05	0	2.85E-08	3.62E-05	NA	NA	NA	NA
1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	5.34E-06	Log Normal	2.01E-09	1.65E-05	0	1.30E-08	1.65E-05	NA	NA	NA	NA
1,2,3,7,8-PENTACHLORODIBENZOFURAN	3.02E-05	Log Normal	4.00E-08	8.83E-05	0	7.35E-08	8.84E-05	NA	NA	NA	NA
1,2,3,7,8-PENTACHLORODIBENZO-p-DIOXIN	6.40E-07	Max Detect	9.68E-10	1.86E-06	0	1.56E-09	1.86E-06	NA	NA	NA	NA
2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	4.70E-06	Max Detect	2.29E-09	1.44E-05	0	1.14E-08	1.44E-05	NA	NA	NA	NA
2,3,4,7,8-PENTACHLORODIBENZOFURAN	4.90E-06	Max Detect	5.78E-09	1.44E-05	0	1.19E-08	1.44E-05	NA	NA	NA	NA
2,3,7,8-TETRACHLORODIBENZOFURAN	5.20E-06	Max Detect	8.67E-09	1.51E-05	0	1.27E-08	1.51E-05	9.14E-07	9.14E-06	16.5	1.65
2,3,7,8-TETRACHLORODIBENZO-p-DIOXIN	2.60E-07	Max Detect	4.34E-10	5.03E-08	0	6.33E-10	5.14E-08	8.39E-06	8.39E-05	0.006	0.001
HEPTACHLORINATED DIBENZOFURANS, (TOTAL)	8.67E-04	Max Detect	0.00E+00	0.00E+00	0	2.11E-06	2.11E-06	NA	NA	NA	NA
HEPTACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	8.20E-04	Max Detect	0.00E+00	0.00E+00	0	2.00E-06	2.00E-06	NA	NA	NA	NA
HEXACHLORINATED DIBENZOFURANS, (TOTAL)	3.78E-04	Max Detect	0.00E+00	0.00E+00	0	9.21E-07	9.21E-07	NA	NA	NA	NA
HEXACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	5.33E-05	Max Detect	0.00E+00	0.00E+00	0	1.30E-07	1.30E-07	NA	NA	NA	NA
OCTACHLORODIBENZOFURAN	7.87E-04	Max Detect	0.00E+00	0.00E+00	0	1.92E-06	1.92E-06	NA	NA	NA	NA
OCTACHLORODIBENZO-p-DIOXIN	0.0045	Max Detect	0.00E+00	0.00E+00	0	1.09E-05	1.09E-05	NA	NA	NA	NA
PENTACHLORINATED DIBENZOFURANS, (TOTAL)	2.10E-04	Max Detect	0.00E+00	0.00E+00	0	5.12E-07	5.12E-07	NA	NA	NA	NA
PENTACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	7.55E-06	Log Normal	0.00E+00	0.00E+00	0	1.84E-08	1.84E-08	NA	NA	NA	NA
TETRACHLORINATED DIBENZOFURANS, (TOTAL)	7.59E-05	Normal	0.00E+00	0.00E+00	0	1.85E-07	1.85E-07	NA	NA	NA	NA
TETRACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	4.40E-06	Log Normal	0.00E+00	0.00E+00	0	1.07E-08	1.07E-08	NA	NA	NA	NA
Total TCDD-Bird	2.68E-05	Max Detect	4.47E-08	1.21E-05	0	6.53E-08	1.22E-05	8.39E-06	8.39E-05	1.45	0.145
PESTICIDES/PCBs											
ALDRIN	0.0030	Max Detect	0.0000	0.0087	0	0.0000	0.0087	0.006	NA	1.40	NA
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	0.0060	Max Detect	0.0001	0.0156	0	0.0000	0.0157	3.422	5.136	0.005	0.003
DIELDRIN	0.011	Max Detect	0.0001	0.0304	0	0.0000	0.0305	0.054	NA	0.568	NA
ENDRIN	0.034	Max Detect	0.0002	0.0929	0	0.0001	0.0932	0.175	NA	0.533	NA
ENDRIN ALDEHYDE	0.0030	Max Detect	0.0000	0.0079	0	0.0000	0.0079	0.175	NA	0.045	NA
p,p'-DDD	0.38	Log Normal	0.0009	1.0781	0	0.0009	1.0799	0.004	0.360	270	3.00
p,p'-DDE	0.020	Log Normal	0.0000	0.0582	0	0.0000	0.0582	0.004	0.360	14.6	0.162
p,p'-DDT (1,1-bis(CHLOROPHENYL)-2,2,2-TRICHLOROETHANE)	0.31	Max Detect	0.0005	0.8946	0	0.0008	0.8959	0.004	0.360	224	2.49
PCB-1260 (AROCLOR 1260)	6.3	Normal	0.0082	0.0000	0	0.0152	0.0234	0.050	0.497	0.471	0.047

TABLE 4-3
Building 35-752—Exposure Estimates and Hazard Quotient Calculations for Birds and Mammals
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Analytes[a]	Exposure Point Concentration (mg/kg)	EPC Basis	Exposure Estimate by Pathway[b] (mg/kg/d)					NOAEL (mg/kg/d)	LOAEL (mg/kg/d)	Hazard Quotients[c]	
			Plant	Invertebrate	Mammal	Soil	Total			NOAEL HQ	LOAEL HQ
SVOCs											
2-METHYLNAPHTHALENE	0.026	Max Detect	0.0005	0.0678	0	0.0001	0.0683	18.687	186.869	0.004	0.000
ACENAPHTHENE	0.023	Max Detect	0.0004	0.0588	0	0.0001	0.0592	18.687	186.869	0.003	0.000
ACENAPHTHYLENE	0.012	Max Detect	0.0002	0.0301	0	0.0000	0.0303	18.687	186.869	0.002	0.000
ANTHRACENE	0.38	Log Normal	0.0037	1.0198	0	0.0009	1.0244	18.687	186.869	0.055	0.005
BENZO(a)ANTHRACENE	0.52	Log Normal	0.0018	1.4615	0	0.0013	1.4646	18.687	186.869	0.078	0.008
BENZO(a)PYRENE	0.40	Log Normal	0.0010	1.1381	0	0.0010	1.1400	18.687	186.869	0.061	0.006
BENZO(b)FLUORANTHENE	0.65	Log Normal	0.0015	1.8589	0	0.0016	1.8619	18.687	186.869	0.100	0.010
BENZO(g,h,i)PERYLENE	0.32	Log Normal	0.0005	0.9412	0	0.0008	0.9425	18.687	186.869	0.050	0.005
BENZO(k)FLUORANTHENE	0.54	Log Normal	0.0012	1.5395	0	0.0013	1.5420	18.687	186.869	0.083	0.008
bis(2-ETHYLHEXYL) PHTHALATE	0.68	Log Normal	0.0006	2.0329	0	0.0017	2.0352	0.966	NA	2.11	NA
CHRYSENE	0.92	Log Normal	0.0032	2.5797	0	0.0022	2.5852	18.687	186.869	0.138	0.014
DIBENZ(a,h)ANTHRACENE	0.016	Max Detect	0.0000	0.0452	0	0.0000	0.0452	18.687	186.869	0.002	0.000
DIBENZOFURAN	0.027	Max Detect	0.0004	0.0711	0	0.0001	0.0716	NA	NA	NA	NA
FLUORANTHENE	2.7	Log Normal	0.0157	7.4013	0	0.0066	7.4236	18.687	186.869	0.397	0.040
FLUORENE	0.10	Max Detect	0.0013	0.2644	0	0.0002	0.2659	18.687	186.869	0.014	0.001
INDENO(1,2,3-c,d)PYRENE	0.34	Log Normal	0.0005	0.9859	0	0.0008	0.9872	18.687	186.869	0.053	0.005
PHENANTHRENE	1.1	Log Normal	0.0106	2.9524	0	0.0027	2.9657	18.687	186.869	0.159	0.016
PYRENE	1.7	Log Normal	0.0097	4.5198	0	0.0040	4.5335	18.687	186.869	0.243	0.024
TPHs											
DIESEL RANGE ORGANICS	766	Log Normal	20.4293	68.3936	0	1.8653	90.6882	299.644	2996.442	0.303	0.030
GASOLINE RANGE ORGANICS	0.35	Max Detect	0.0094	0.0315	0	0.0009	0.0418	299.644	2996.442	0.000	0.000
TPH	740	Max Detect	19.7432	66.0968	0	1.8026	87.6426	299.644	2996.442	0.292	0.029
VOCs											
1,1,1-TRICHLOROETHANE	0.0039	Log Normal	0.0002	0.0097	0	0.0000	0.0099	NA	NA	NA	NA
1,2,4-TRIMETHYLBENZENE	8.00E-04	Max Detect	0.0000	0.0021	0	0.0000	0.0021	18.687	186.869	0.000	0.000
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	0.0040	Max Detect	0.0001	0.0103	0	0.0000	0.0104	18.687	186.869	0.001	0.000
1,4-DICHLOROBENZENE	0.0041	Log Normal	0.0001	0.0105	0	0.0000	0.0106	NA	NA	NA	NA
2-CHLOROTOLUENE	0.0091	Normal	0.0002	0.0234	0	0.0000	0.0236	NA	NA	NA	NA
ACETONE	0.21	Log Normal	0.1443	0.4756	0	0.0005	0.6204	45.543	NA	0.014	NA
METHYL ETHYL KETONE (2-BUTANONE)	0.036	Log Normal	0.0154	0.0822	0	0.0001	0.0977	NA	NA	NA	NA
NAPHTHALENE	0.027	Log Normal	0.0007	0.0679	0	0.0001	0.0687	22.767	227.669	0.003	0.000
n-PROPYLBENZENE	0.056	Log Normal	0.0012	0.1448	0	0.0001	0.1461	18.687	186.869	0.008	0.001
P-CYMENE (p-ISOPROPYLTOLUENE)	0.043	Log Normal	0.0006	0.1102	0	0.0001	0.1109	18.687	186.869	0.006	0.001
TOLUENE	0.0031	Log Normal	0.0001	0.0078	0	0.0000	0.0079	18.687	186.869	0.000	0.000
XYLENES, TOTAL	0.0033	Log Normal	0.0001	0.0085	0	0.0000	0.0086	43.791	437.913	0.000	0.000
Bald Eagle											
METALS											
BARIUM	98	Log Normal	0	0	0.1062	0	0.1062	43.022	86.046	0.002	0.001
CHROMIUM, TOTAL	38	Log Normal	0	0	0.0650	0	0.0650	1.295	6.475	0.050	0.010
LEAD	57	Log Normal	0	0	0.1241	0	0.1241	0.269	2.520	0.461	0.049
NICKEL	39	Log Normal	0	0	0.0822	0	0.0822	25.033	110.088	0.003	0.001
ZINC	73	Log Normal	0	0	2.3048	0	2.3048	17.523	158.312	0.132	0.015

TABLE 4-3
Building 35-752—Exposure Estimates and Hazard Quotient Calculations for Birds and Mammals
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Analytes[a]	Exposure Point Concentration (mg/kg)	EPC Basis	Exposure Estimate by Pathway[b] (mg/kg/d)					NOAEL (mg/kg/d)	LOAEL (mg/kg/d)	Hazard Quotients[c]	
			Plant	Invertebrate	Mammal	Soil	Total			NOAEL HQ	LOAEL HQ
DIOXINS/FURANS											
1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	1.66E-04	Max Detect	0	0	4.23E-06	0	4.23E-06	NA	NA	NA	NA
1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN	5.18E-04	Max Detect	0	0	1.21E-05	0	1.21E-05	NA	NA	NA	NA
1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	2.37E-05	Max Detect	0	0	6.03E-07	0	6.03E-07	NA	NA	NA	NA
1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	5.81E-05	Max Detect	0	0	1.48E-06	0	1.48E-06	NA	NA	NA	NA
1,2,3,4,7,8-HEXACHLORODIBENZO-p-DIOXIN	2.60E-06	Max Detect	0	0	6.86E-08	0	6.86E-08	NA	NA	NA	NA
1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	6.80E-06	Max Detect	0	0	1.73E-07	0	1.73E-07	NA	NA	NA	NA
1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	1.17E-05	Max Detect	0	0	2.73E-07	0	2.73E-07	NA	NA	NA	NA
1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	5.34E-06	Log Normal	0	0	1.25E-07	0	1.25E-07	NA	NA	NA	NA
1,2,3,7,8-PENTACHLORODIBENZOFURAN	3.02E-05	Log Normal	0	0	1.08E-06	0	1.08E-06	NA	NA	NA	NA
1,2,3,7,8-PENTACHLORODIBENZO-p-DIOXIN	6.40E-07	Max Detect	0	0	2.38E-08	0	2.38E-08	NA	NA	NA	NA
2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	4.70E-06	Max Detect	0	0	1.20E-07	0	1.20E-07	NA	NA	NA	NA
2,3,4,7,8-PENTACHLORODIBENZOFURAN	4.90E-06	Max Detect	0	0	1.68E-07	0	1.68E-07	NA	NA	NA	NA
2,3,7,8-TETRACHLORODIBENZOFURAN	5.20E-06	Max Detect	0	0	2.00E-07	0	2.00E-07	2.07E-06	2.07E-05	0.097	0.010
2,3,7,8-TETRACHLORODIBENZO-p-DIOXIN	2.60E-07	Max Detect	0	0	2.49E-09	0	2.49E-09	1.90E-05	1.90E-04	0.000	0.000
HEPTACHLORINATED DIBENZOFURANS, (TOTAL)	8.67E-04	Max Detect	0	0	0.00E+00	0	0.00E+00	NA	NA	NA	NA
HEPTACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	8.20E-04	Max Detect	0	0	0.00E+00	0	0.00E+00	NA	NA	NA	NA
HEXACHLORINATED DIBENZOFURANS, (TOTAL)	3.78E-04	Max Detect	0	0	0.00E+00	0	0.00E+00	NA	NA	NA	NA
HEXACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	5.33E-05	Max Detect	0	0	0.00E+00	0	0.00E+00	NA	NA	NA	NA
OCTACHLORODIBENZOFURAN	7.87E-04	Max Detect	0	0	0.00E+00	0	0.00E+00	NA	NA	NA	NA
OCTACHLORODIBENZO-p-DIOXIN	0.0045	Max Detect	0	0	0.00E+00	0	0.00E+00	NA	NA	NA	NA
PENTACHLORINATED DIBENZOFURANS, (TOTAL)	2.10E-04	Max Detect	0	0	0.00E+00	0	0.00E+00	NA	NA	NA	NA
PENTACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	7.55E-06	Log Normal	0	0	0.00E+00	0	0.00E+00	NA	NA	NA	NA
TETRACHLORINATED DIBENZOFURANS, (TOTAL)	7.59E-05	Normal	0	0	0.00E+00	0	0.00E+00	NA	NA	NA	NA
TETRACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	4.40E-06	Log Normal	0	0	0.00E+00	0	0.00E+00	NA	NA	NA	NA
Total TCDD-Bird	2.68E-05	Max Detect	0	0	4.07E-07	0	4.07E-07	8.39E-06	8.39E-05	0.049	0.005
PESTICIDES/PCBs											
ALDRIN	0.0030	Max Detect	0	0	0.0001	0	0.0001	0.014	NA	0.008	NA
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	0.0060	Max Detect	0	0	0.0005	0	0.0005	7.732	11.604	0.000	0.000
DIELDRIN	0.011	Max Detect	0	0	0.0006	0	0.0006	0.121	NA	0.005	NA
ENDRIN	0.034	Max Detect	0	0	0.0021	0	0.0021	0.395	NA	0.005	NA
ENDRIN ALDEHYDE	0.0030	Max Detect	0	0	0.0003	0	0.0003	0.395	NA	0.001	NA
p,p'-DDD	0.38	Log Normal	0	0	0.0166	0	0.0166	0.009	0.812	1.84	0.020
p,p'-DDE	0.020	Log Normal	0	0	0.0007	0	0.0007	0.009	0.812	0.080	0.001
p,p'-DDT (1,1-bis(CHLOROPHENYL)-2,2,2-TRICHLOROETHANE)	0.31	Max Detect	0	0	0.0119	0	0.0119	0.009	0.812	1.32	0.015
PCB-1260 (AROCLOR 1260)	6.3	Normal	0	0	0.0270	0	0.0270	0.112	1.124	0.240	0.024
SVOCs											
2-METHYLNAPHTHALENE	0.026	Max Detect	0	0	0.0023	0	0.0023	42.222	422.224	0.000	0.000
ACENAPHTHENE	0.023	Max Detect	0	0	0.0020	0	0.0020	42.222	422.224	0.000	0.000
ACENAPHTHYLENE	0.012	Max Detect	0	0	0.0010	0	0.0010	42.222	422.224	0.000	0.000
ANTHRACENE	0.38	Log Normal	0	0	0.0271	0	0.0271	42.222	422.224	0.001	0.000
BENZO(a)ANTHRACENE	0.52	Log Normal	0	0	0.0258	0	0.0258	42.222	422.224	0.001	0.000
BENZO(a)PYRENE	0.40	Log Normal	0	0	0.0175	0	0.0175	42.222	422.224	0.000	0.000

TABLE 4-3
Building 35-752—Exposure Estimates and Hazard Quotient Calculations for Birds and Mammals
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Analytes[a]	Exposure Point Concentration (mg/kg)	EPC Basis	Exposure Estimate by Pathway[b] (mg/kg/d)					NOAEL (mg/kg/d)	LOAEL (mg/kg/d)	Hazard Quotients[c]	
			Plant	Invertebrate	Mammal	Soil	Total			NOAEL HQ	LOAEL HQ
BENZO(b)FLUORANTHENE	0.65	Log Normal	0	0	0.0277	0	0.0277	42.222	422.224	0.001	0.000
BENZO(g,h,i)PERYLENE	0.32	Log Normal	0	0	0.0118	0	0.0118	42.222	422.224	0.000	0.000
BENZO(k)FLUORANTHENE	0.54	Log Normal	0	0	0.0229	0	0.0229	42.222	422.224	0.001	0.000
bis(2-ETHYLHEXYL) PHTHALATE	0.68	Log Normal	0	0	0.0209	0	0.0209	2.182	NA	0.010	NA
CHRYSENE	0.92	Log Normal	0	0	0.0456	0	0.0456	42.222	422.224	0.001	0.000
DIBENZ(a,h)ANTHRACENE	0.016	Max Detect	0	0	0.0006	0	0.0006	42.222	422.224	0.000	0.000
DIBENZOFURAN	0.027	Max Detect	0	0	0.0022	0	0.0022	NA	NA	NA	NA
FLUORANTHENE	2.7	Log Normal	0	0	0.1601	0	0.1601	42.222	422.224	0.004	0.000
FLUORENE	0.10	Max Detect	0	0	0.0080	0	0.0080	42.222	422.224	0.000	0.000
INDENO(1,2,3-c,d)PYRENE	0.34	Log Normal	0	0	0.0126	0	0.0126	42.222	422.224	0.000	0.000
PHENANTHRENE	1.1	Log Normal	0	0	0.0784	0	0.0784	42.222	422.224	0.002	0.000
PYRENE	1.7	Log Normal	0	0	0.0981	0	0.0981	42.222	422.224	0.002	0.000
TPHs											
DIESEL RANGE ORGANICS	766	Log Normal	0	0	14.7017	0	14.7017	677.034	6770.340	0.022	0.002
GASOLINE RANGE ORGANICS	0.35	Max Detect	0	0	0.0068	0	0.0068	677.034	6770.340	0.000	0.000
TPH	740	Max Detect	0	0	14.2080	0	14.2080	677.034	6770.340	0.021	0.002
VOCs											
1,1,1-TRICHLOROETHANE	0.0039	Log Normal	0	0	0.0006	0	0.0006	NA	NA	NA	NA
1,2,4-TRIMETHYLBENZENE	8.00E-04	Max Detect	0	0	0.0001	0	0.0001	42.222	422.224	0.000	0.000
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	0.0040	Max Detect	0	0	0.0004	0	0.0004	42.222	422.224	0.000	0.000
1,4-DICHLOROBENZENE	0.0041	Log Normal	0	0	0.0004	0	0.0004	NA	NA	NA	NA
2-CHLOROTOLUENE	0.0091	Normal	0	0	0.0010	0	0.0010	NA	NA	NA	NA
ACETONE	0.21	Log Normal	0	0	0.2440	0	0.2440	102.902	NA	0.002	NA
METHYL ETHYL KETONE (2-BUTANONE)	0.036	Log Normal	0	0	0.0253	0	0.0253	NA	NA	NA	NA
NAPHTHALENE	0.027	Log Normal	0	0	0.0029	0	0.0029	51.441	514.409	0.000	0.000
n-PROPYLBENZENE	0.056	Log Normal	0	0	0.0053	0	0.0053	42.222	422.224	0.000	0.000
P-CYMENE (p-ISOPROPYLTOLUENE)	0.043	Log Normal	0	0	0.0035	0	0.0035	42.222	422.224	0.000	0.000
TOLUENE	0.0031	Log Normal	0	0	0.0004	0	0.0004	42.222	422.224	0.000	0.000
XYLENES, TOTAL	0.0033	Log Normal	0	0	0.0004	0	0.0004	98.945	989.446	0.000	0.000
Masked Shrew											
METALS											
BARIUM	98	Log Normal	0	2.2947	0	3.2781	5.5728	6.767	NA	0.823	NA
CHROMIUM, TOTAL	38	Log Normal	0	3.0389	0	1.2911	4.3300	4.296	NA	1.01	NA
LEAD	57	Log Normal	0	5.4438	0	1.9225	7.3663	1.205	6.156	6.11	1.20
NICKEL	39	Log Normal	0	10.5254	0	1.2921	11.8175	6.549	NA	1.80	NA
ZINC	73	Log Normal	0	90.1188	0	2.4458	92.5647	209.556	419.112	0.442	0.221
DIOXINS/FURANS											
1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	1.66E-04	Max Detect	0	2.58E-01	0	5.57E-06	2.58E-01	NA	NA	NA	NA
1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN	5.18E-04	Max Detect	0	4.62E-03	0	1.74E-05	4.64E-03	NA	NA	NA	NA
1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	2.37E-05	Max Detect	0	2.09E-04	0	7.95E-07	2.10E-04	NA	NA	NA	NA
1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	5.81E-05	Max Detect	0	5.13E-04	0	1.95E-06	5.15E-04	NA	NA	NA	NA
1,2,3,4,7,8-HEXACHLORODIBENZO-p-DIOXIN	2.60E-06	Max Detect	0	2.29E-05	0	8.72E-08	2.29E-05	NA	NA	NA	NA
1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	6.80E-06	Max Detect	0	6.00E-05	0	2.28E-07	6.03E-05	NA	NA	NA	NA

TABLE 4-3
Building 35-752—Exposure Estimates and Hazard Quotient Calculations for Birds and Mammals
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

			Exposure Estimate by Pathway[b] (mg/kg/d)							Hazard Quotients[c]	
Analytes[a]	Exposure Point Concentration (mg/kg)	EPC Basis	Plant	Invertebrate	Mammal	Soil	Total	NOAEL (mg/kg/d)	LOAEL (mg/kg/d)	NOAEL HQ	LOAEL HQ
1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	1.17E-05	Max Detect	0	1.04E-04	0	3.92E-07	1.05E-04	NA	NA	NA	NA
1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	5.34E-06	Log Normal	0	4.77E-05	0	1.79E-07	4.78E-05	NA	NA	NA	NA
1,2,3,7,8-PENTACHLORODIBENZOFURAN	3.02E-05	Log Normal	0	2.55E-04	0	1.01E-06	2.56E-04	NA	NA	NA	NA
1,2,3,7,8-PENTACHLORODIBENZO-p-DIOXIN	6.40E-07	Max Detect	0	5.38E-06	0	2.15E-08	5.40E-06	NA	NA	NA	NA
2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	4.70E-06	Max Detect	0	4.15E-05	0	1.58E-07	4.17E-05	NA	NA	NA	NA
2,3,4,7,8-PENTACHLORODIBENZOFURAN	4.90E-06	Max Detect	0	4.16E-05	0	1.64E-07	4.18E-05	NA	NA	NA	NA
2,3,7,8-TETRACHLORODIBENZOFURAN	5.20E-06	Max Detect	0	4.35E-05	0	1.74E-07	4.37E-05	NA	NA	NA	NA
2,3,7,8-TETRACHLORODIBENZO-p-DIOXIN	2.60E-07	Max Detect	0	1.45E-07	0	8.72E-09	1.54E-07	1.31E-06	1.31E-05	0.118	0.012
HEPTACHLORINATED DIBENZOFURANS, (TOTAL)	8.67E-04	Max Detect	0	0.00E+00	0	2.91E-05	2.91E-05	NA	NA	NA	NA
HEPTACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	8.20E-04	Max Detect	0	0.00E+00	0	2.75E-05	2.75E-05	NA	NA	NA	NA
HEXACHLORINATED DIBENZOFURANS, (TOTAL)	3.78E-04	Max Detect	0	0.00E+00	0	1.27E-05	1.27E-05	NA	NA	NA	NA
HEXACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	5.33E-05	Max Detect	0	0.00E+00	0	1.79E-06	1.79E-06	NA	NA	NA	NA
OCTACHLORODIBENZOFURAN	7.87E-04	Max Detect	0	0.00E+00	0	2.64E-05	2.64E-05	NA	NA	NA	NA
OCTACHLORODIBENZO-p-DIOXIN	0.0045	Max Detect	0	0.00E+00	0	1.51E-04	1.51E-04	NA	NA	NA	NA
PENTACHLORINATED DIBENZOFURANS, (TOTAL)	2.10E-04	Max Detect	0	0.00E+00	0	7.04E-06	7.04E-06	NA	NA	NA	NA
PENTACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	7.55E-06	Log Normal	0	0.00E+00	0	2.53E-07	2.53E-07	NA	NA	NA	NA
TETRACHLORINATED DIBENZOFURANS, (TOTAL)	7.59E-05	Normal	0	0.00E+00	0	2.55E-06	2.55E-06	NA	NA	NA	NA
TETRACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	4.40E-06	Log Normal	0	0.00E+00	0	1.47E-07	1.47E-07	NA	NA	NA	NA
Total TCDD-Mammal	2.27E-05	Max Detect	0	2.86E-05	0	7.60E-07	2.93E-05	1.31E-06	1.31E-05	22.4	2.24
PESTICIDES/PCBs											
ALDRIN	0.0030	Max Detect	0	0.0251	0	0.0001	0.0252	0.262	1.310	0.096	0.019
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	0.0060	Max Detect	0	0.0451	0	0.0002	0.0453	0.524	2.619	0.086	0.017
DIELDRIN	0.011	Max Detect	0	0.0879	0	0.0004	0.0883	0.026	0.262	3.37	0.337
ENDRIN	0.034	Max Detect	0	0.2684	0	0.0011	0.2696	0.104	1.040	2.59	0.259
ENDRIN ALDEHYDE	0.0030	Max Detect	0	0.0227	0	0.0001	0.0228	0.104	1.040	0.219	0.022
p,p'-DDD	0.38	Log Normal	0	3.1140	0	0.0127	3.1267	1.048	5.239	2.98	0.597
p,p'-DDE	0.020	Log Normal	0	0.1680	0	0.0007	0.1687	1.048	5.239	0.161	0.032
p,p'-DDT (1,1-bis(CHLOROPHENYL)-2,2,2-TRICHLOROETHANE)	0.31	Max Detect	0	2.5841	0	0.0104	2.5945	1.048	5.239	2.48	0.495
PCB-1260 (AROCLOR 1260)	6.3	Normal	0	0.0000	0	0.2096	0.2096	0.077	0.769	2.73	0.273
SVOCs											
2-METHYLNAPHTHALENE	0.026	Max Detect	0	0.1959	0	0.0009	0.1967	5.805	58.051	0.034	0.003
ACENAPHTHENE	0.023	Max Detect	0	0.1699	0	0.0008	0.1706	197.789	395.577	0.001	0.000
ACENAPHTHYLENE	0.012	Max Detect	0	0.0869	0	0.0004	0.0873	197.789	395.577	0.000	0.000
ANTHRACENE	0.38	Log Normal	0	2.9457	0	0.0128	2.9585	1130.221	NA	0.003	NA
BENZO(a)ANTHRACENE	0.52	Log Normal	0	4.2216	0	0.0175	4.2391	1.130	11.302	3.75	0.375
BENZO(a)PYRENE	0.40	Log Normal	0	3.2874	0	0.0134	3.3008	1.130	11.302	2.92	0.292
BENZO(b)FLUORANTHENE	0.65	Log Normal	0	5.3694	0	0.0218	5.3913	1.130	11.302	4.77	0.477
BENZO(g,h,i)PERYLENE	0.32	Log Normal	0	2.7187	0	0.0108	2.7295	1.130	11.302	2.42	0.242
BENZO(k)FLUORANTHENE	0.54	Log Normal	0	4.4468	0	0.0181	4.4649	1.130	11.302	3.95	0.395
bis(2-ETHYLHEXYL) PHTHALATE	0.68	Log Normal	0	5.8721	0	0.0229	5.8950	20.683	206.830	0.285	0.029
CHRYSENE	0.92	Log Normal	0	7.4516	0	0.0309	7.4824	1.130	11.302	6.62	0.662
DIBENZ(a,h)ANTHRACENE	0.016	Max Detect	0	0.1304	0	0.0005	0.1310	1.130	11.302	0.116	0.012
DIBENZOFURAN	0.027	Max Detect	0	0.2055	0	0.0009	0.2064	NA	NA	NA	NA

TABLE 4-3
Building 35-752—Exposure Estimates and Hazard Quotient Calculations for Birds and Mammals
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Analytes[a]	Exposure Point Concentration (mg/kg)	EPC Basis	Exposure Estimate by Pathway[b] (mg/kg/d)					NOAEL (mg/kg/d)	LOAEL (mg/kg/d)	Hazard Quotients[c]	
			Plant	Invertebrate	Mammal	Soil	Total			NOAEL HQ	LOAEL HQ
FLUORANTHENE	2.7	Log Normal	0	21.3785	0	0.0906	21.4691	141.278	282.555	0.152	0.076
FLUORENE	0.10	Max Detect	0	0.7637	0	0.0034	0.7670	141.278	282.555	0.005	0.003
INDENO(1,2,3-c,d)PYRENE	0.34	Log Normal	0	2.8478	0	0.0114	2.8591	1.130	11.302	2.53	0.253
PHENANTHRENE	1.1	Log Normal	0	8.5280	0	0.0370	8.5650	141.278	282.555	0.061	0.030
PYRENE	1.7	Log Normal	0	13.0553	0	0.0554	13.1107	84.767	141.278	0.155	0.093
TPHs											
DIESEL RANGE ORGANICS	766	Log Normal	0	197.5543	0	25.6821	223.2364	1309.725	1964.588	0.170	0.114
GASOLINE RANGE ORGANICS	0.35	Max Detect	0	0.0911	0	0.0118	0.1029	1309.725	1964.588	0.000	0.000
TPH	740	Max Detect	0	190.9200	0	24.8196	215.7396	1309.725	1964.588	0.165	0.110
VOCs											
1,1,1-TRICHLOROETHANE	0.0039	Log Normal	0	0.0279	0	0.0001	0.0280	NA	NA	NA	NA
1,2,4-TRIMETHYLBENZENE	8.00E-04	Max Detect	0	0.0060	0	0.0000	0.0060	141.190	423.571	0.000	0.000
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	0.0040	Max Detect	0	0.0296	0	0.0001	0.0298	141.190	423.571	0.000	0.000
1,4-DICHLOROBENZENE	0.0041	Log Normal	0	0.0304	0	0.0001	0.0305	NA	NA	NA	NA
2-CHLOROTOLUENE	0.0091	Normal	0	0.0675	0	0.0003	0.0678	NA	NA	NA	NA
ACETONE	0.21	Log Normal	0	1.3737	0	0.0072	1.3809	13.097	65.486	0.105	0.021
METHYL ETHYL KETONE (2-BUTANONE)	0.036	Log Normal	0	0.2374	0	0.0012	0.2386	2319.523	5986.754	0.000	0.000
NAPHTHALENE	0.027	Log Normal	0	0.1961	0	0.0009	0.1970	64.020	192.061	0.003	0.001
n-PROPYLBENZENE	0.056	Log Normal	0	0.4181	0	0.0019	0.4200	141.190	423.571	0.003	0.001
P-CYMENE (p-ISOPROPYLTOLUENE)	0.043	Log Normal	0	0.3184	0	0.0015	0.3198	141.190	423.571	0.002	0.001
TOLUENE	0.0031	Log Normal	0	0.0224	0	0.0001	0.0226	65.857	658.569	0.000	0.000
XYLENES, TOTAL	0.0033	Log Normal	0	0.0244	0	0.0001	0.0246	234.441	467.572	0.000	0.000
Coyote											
METALS											
BARIUM	98	Log Normal	0	0	0.0830	0.0410	0.1240	4.161	NA	0.030	NA
CHROMIUM, TOTAL	38	Log Normal	0	0	0.0507	0.0162	0.0669	2.642	NA	0.025	NA
LEAD	57	Log Normal	0	0	0.0970	0.0241	0.1211	0.741	3.785	0.163	0.032
NICKEL	39	Log Normal	0	0	0.0642	0.0162	0.0804	4.027	NA	0.020	NA
ZINC	73	Log Normal	0	0	1.8007	0.0306	1.8313	128.863	257.726	0.014	0.007
DIOXINS/FURANS											
1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	1.66E-04	Max Detect	0	0	3.30E-06	6.97E-08	3.37E-06	NA	NA	NA	NA
1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN	5.18E-04	Max Detect	0	0	9.48E-06	2.18E-07	9.70E-06	NA	NA	NA	NA
1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	2.37E-05	Max Detect	0	0	4.71E-07	9.95E-09	4.81E-07	NA	NA	NA	NA
1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	5.81E-05	Max Detect	0	0	1.16E-06	2.44E-08	1.18E-06	NA	NA	NA	NA
1,2,3,4,7,8-HEXACHLORODIBENZO-p-DIOXIN	2.60E-06	Max Detect	0	0	5.36E-08	1.09E-09	5.47E-08	NA	NA	NA	NA
1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	6.80E-06	Max Detect	0	0	1.35E-07	2.86E-09	1.38E-07	NA	NA	NA	NA
1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	1.17E-05	Max Detect	0	0	2.14E-07	4.91E-09	2.19E-07	NA	NA	NA	NA
1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	5.34E-06	Log Normal	0	0	9.74E-08	2.24E-09	9.97E-08	NA	NA	NA	NA
1,2,3,7,8-PENTACHLORODIBENZOFURAN	3.02E-05	Log Normal	0	0	8.40E-07	1.27E-08	8.53E-07	NA	NA	NA	NA
1,2,3,7,8-PENTACHLORODIBENZO-p-DIOXIN	6.40E-07	Max Detect	0	0	1.86E-08	2.69E-10	1.89E-08	NA	NA	NA	NA
2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	4.70E-06	Max Detect	0	0	9.35E-08	1.97E-09	9.55E-08	NA	NA	NA	NA
2,3,4,7,8-PENTACHLORODIBENZOFURAN	4.90E-06	Max Detect	0	0	1.31E-07	2.06E-09	1.33E-07	NA	NA	NA	NA
2,3,7,8-TETRACHLORODIBENZOFURAN	5.20E-06	Max Detect	0	0	7.95E-08	2.18E-09	8.17E-08	NA	NA	NA	NA

TABLE 4-3
Building 35-752—Exposure Estimates and Hazard Quotient Calculations for Birds and Mammals
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

			Exposure Estimate by Pathway[b] (mg/kg/d)							Hazard Quotients[c]	
Analytes[a]	Exposure Point Concentration (mg/kg)	EPC Basis	Plant	Invertebrate	Mammal	Soil	Total	NOAEL (mg/kg/d)	LOAEL (mg/kg/d)	NOAEL HQ	LOAEL HQ
2,3,7,8-TETRACHLORODIBENZO-p-DIOXIN	2.60E-07	Max Detect	0	0	1.95E-09	1.09E-10	2.06E-09	8.05E-07	8.05E-06	0.003	0.000
HEPTACHLORINATED DIBENZOFURANS, (TOTAL)	8.67E-04	Max Detect	0	0	0.00E+00	3.64E-07	3.64E-07	NA	NA	NA	NA
HEPTACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	8.20E-04	Max Detect	0	0	0.00E+00	3.44E-07	3.44E-07	NA	NA	NA	NA
HEXACHLORINATED DIBENZOFURANS, (TOTAL)	3.78E-04	Max Detect	0	0	0.00E+00	1.59E-07	1.59E-07	NA	NA	NA	NA
HEXACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	5.33E-05	Max Detect	0	0	0.00E+00	2.24E-08	2.24E-08	NA	NA	NA	NA
OCTACHLORODIBENZOFURAN	7.87E-04	Max Detect	0	0	0.00E+00	3.31E-07	3.31E-07	NA	NA	NA	NA
OCTACHLORODIBENZO-p-DIOXIN	0.0045	Max Detect	0	0	0.00E+00	1.89E-06	1.89E-06	NA	NA	NA	NA
PENTACHLORINATED DIBENZOFURANS, (TOTAL)	2.10E-04	Max Detect	0	0	0.00E+00	8.82E-08	8.82E-08	NA	NA	NA	NA
PENTACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	7.55E-06	Log Normal	0	0	0.00E+00	3.17E-09	3.17E-09	NA	NA	NA	NA
TETRACHLORINATED DIBENZOFURANS, (TOTAL)	7.59E-05	Normal	0	0	0.00E+00	3.19E-08	3.19E-08	NA	NA	NA	NA
TETRACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	4.40E-06	Log Normal	0	0	0.00E+00	1.85E-09	1.85E-09	NA	NA	NA	NA
Total TCDD-Mammal	2.27E-05	Max Detect	0	0	2.65E-07	9.52E-09	2.74E-07	1.31E-06	1.31E-05	0.209	0.021
PESTICIDES/PCBs											
ALDRIN	0.0030	Max Detect	0	0	0.0001	0.0000	0.0001	0.161	0.805	0.001	0.000
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	0.0060	Max Detect	0	0	0.0004	0.0000	0.0004	0.322	1.611	0.001	0.000
DIELDRIN	0.011	Max Detect	0	0	0.0005	0.0000	0.0005	0.016	0.161	0.030	0.003
ENDRIN	0.034	Max Detect	0	0	0.0016	0.0000	0.0016	0.064	0.639	0.025	0.003
ENDRIN ALDEHYDE	0.0030	Max Detect	0	0	0.0002	0.0000	0.0002	0.064	0.639	0.003	0.000
p,p'-DDD	0.38	Log Normal	0	0	0.0130	0.0002	0.0131	0.644	3.222	0.020	0.004
p,p'-DDE	0.020	Log Normal	0	0	0.0006	0.0000	0.0006	0.644	3.222	0.001	0.000
p,p'-DDT (1,1-bis(CHLOROPHENYL)-2,2,2-TRICHLOROETHANE)	0.31	Max Detect	0	0	0.0093	0.0001	0.0094	0.644	3.222	0.015	0.003
PCB-1260 (AROCLOR 1260)	6.3	Normal	0	0	0.0211	0.0026	0.0237	0.047	0.473	0.502	0.050
SVOCs											
2-METHYLNAPHTHALENE	0.026	Max Detect	0	0	0.0018	0.0000	0.0018	3.570	35.697	0.001	0.000
ACENAPHTHENE	0.023	Max Detect	0	0	0.0015	0.0000	0.0016	121.627	243.254	0.000	0.000
ACENAPHTHYLENE	0.012	Max Detect	0	0	0.0008	0.0000	0.0008	121.627	243.254	0.000	0.000
ANTHRACENE	0.38	Log Normal	0	0	0.0211	0.0002	0.0213	695.011	NA	0.000	NA
BENZO(a)ANTHRACENE	0.52	Log Normal	0	0	0.0202	0.0002	0.0204	0.695	6.950	0.029	0.003
BENZO(a)PYRENE	0.40	Log Normal	0	0	0.0136	0.0002	0.0138	0.695	6.950	0.020	0.002
BENZO(b)FLUORANTHENE	0.65	Log Normal	0	0	0.0216	0.0003	0.0219	0.695	6.950	0.031	0.003
BENZO(g,h,i)PERYLENE	0.32	Log Normal	0	0	0.0092	0.0001	0.0094	0.695	6.950	0.013	0.001
BENZO(k)FLUORANTHENE	0.54	Log Normal	0	0	0.0179	0.0002	0.0181	0.695	6.950	0.026	0.003
bis(2-ETHYLHEXYL) PHTHALATE	0.68	Log Normal	0	0	0.0163	0.0003	0.0166	12.719	127.187	0.001	0.000
CHRYSENE	0.92	Log Normal	0	0	0.0356	0.0004	0.0360	0.695	6.950	0.052	0.005
DIBENZ(a,h)ANTHRACENE	0.016	Max Detect	0	0	0.0004	0.0000	0.0005	0.695	6.950	0.001	0.000
DIBENZOFURAN	0.027	Max Detect	0	0	0.0017	0.0000	0.0017	NA	NA	NA	NA
FLUORANTHENE	2.7	Log Normal	0	0	0.1251	0.0011	0.1262	86.876	173.753	0.001	0.001
FLUORENE	0.10	Max Detect	0	0	0.0062	0.0000	0.0063	86.876	173.753	0.000	0.000
INDENO(1,2,3-c,d)PYRENE	0.34	Log Normal	0	0	0.0098	0.0001	0.0100	0.695	6.950	0.014	0.001
PHENANTHRENE	1.1	Log Normal	0	0	0.0612	0.0005	0.0617	86.876	173.753	0.001	0.000
PYRENE	1.7	Log Normal	0	0	0.0766	0.0007	0.0773	52.126	86.876	0.001	0.001
TPHs											
DIESEL RANGE ORGANICS	766	Log Normal	0	0	11.4857	0.3216	11.8073	805.395	1208.092	0.015	0.010

TABLE 4-3
Building 35-752—Exposure Estimates and Hazard Quotient Calculations for Birds and Mammals
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Analytes[a]	Exposure Point Concentration (mg/kg)	EPC Basis	Exposure Estimate by Pathway[b] (mg/kg/d)					NOAEL (mg/kg/d)	LOAEL (mg/kg/d)	Hazard Quotients[c]	
			Plant	Invertebrate	Mammal	Soil	Total			NOAEL HQ	LOAEL HQ
GASOLINE RANGE ORGANICS	0.35	Max Detect	0	0	0.0053	0.0001	0.0054	805.395	1208.092	0.000	0.000
TPH	740	Max Detect	0	0	11.1000	0.3108	11.4108	805.395	1208.092	0.014	0.009
VOCs											
1,1,1-TRICHLOROETHANE	0.0039	Log Normal	0	0	0.0005	0.0000	0.0005	NA	NA	NA	NA
1,2,4-TRIMETHYLBENZENE	8.00E-04	Max Detect	0	0	0.0001	0.0000	0.0001	86.823	260.468	0.000	0.000
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	0.0040	Max Detect	0	0	0.0003	0.0000	0.0003	86.823	260.468	0.000	0.000
1,4-DICHLOROBENZENE	0.0041	Log Normal	0	0	0.0003	0.0000	0.0003	NA	NA	NA	NA
2-CHLOROTOLUENE	0.0091	Normal	0	0	0.0008	0.0000	0.0008	NA	NA	NA	NA
ACETONE	0.21	Log Normal	0	0	0.1906	0.0001	0.1907	8.054	40.270	0.024	0.005
METHYL ETHYL KETONE (2-BUTANONE)	0.036	Log Normal	0	0	0.0197	0.0000	0.0197	1426.354	3681.459	0.000	0.000
NAPHTHALENE	0.027	Log Normal	0	0	0.0022	0.0000	0.0023	39.368	118.105	0.000	0.000
n-PROPYLBENZENE	0.056	Log Normal	0	0	0.0042	0.0000	0.0042	86.823	260.468	0.000	0.000
P-CYMENE (p-ISOPROPYLTOLUENE)	0.043	Log Normal	0	0	0.0027	0.0000	0.0027	86.823	260.468	0.000	0.000
TOLUENE	0.0031	Log Normal	0	0	0.0003	0.0000	0.0003	40.498	404.976	0.000	0.000
XYLENES, TOTAL	0.0033	Log Normal	0	0	0.0003	0.0000	0.0003	144.166	287.526	0.000	0.000
Moose											
METALS											
BARIUM	98	Log Normal	0.4574	0	0	0.0586	0.5161	3.294	NA	0.157	NA
CHROMIUM, TOTAL	38	Log Normal	0.0473	0	0	0.0231	0.0704	2.091	NA	0.034	NA
LEAD	57	Log Normal	0.0771	0	0	0.0344	0.1114	0.586	2.996	0.190	0.037
NICKEL	39	Log Normal	0.0498	0	0	0.0231	0.0729	3.187	NA	0.023	NA
ZINC	73	Log Normal	1.5668	0	0	0.0438	1.6106	101.999	203.999	0.016	0.008
DIOXINS/FURANS											
1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	1.66E-04	Max Detect	9.08E-08	0	0	9.96E-08	1.90E-07	NA	NA	NA	NA
1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN	5.18E-04	Max Detect	2.21E-07	0	0	3.11E-07	5.32E-07	NA	NA	NA	NA
1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	2.37E-05	Max Detect	1.30E-08	0	0	1.42E-08	2.72E-08	NA	NA	NA	NA
1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	5.81E-05	Max Detect	3.18E-08	0	0	3.49E-08	6.66E-08	NA	NA	NA	NA
1,2,3,4,7,8-HEXACHLORODIBENZO-p-DIOXIN	2.60E-06	Max Detect	1.58E-09	0	0	1.56E-09	3.14E-09	NA	NA	NA	NA
1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	6.80E-06	Max Detect	3.72E-09	0	0	4.08E-09	7.80E-09	NA	NA	NA	NA
1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	1.17E-05	Max Detect	4.95E-09	0	0	7.02E-09	1.20E-08	NA	NA	NA	NA
1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	5.34E-06	Log Normal	2.26E-09	0	0	3.20E-09	5.46E-09	NA	NA	NA	NA
1,2,3,7,8-PENTACHLORODIBENZOFURAN	3.02E-05	Log Normal	4.50E-08	0	0	1.81E-08	6.31E-08	NA	NA	NA	NA
1,2,3,7,8-PENTACHLORODIBENZO-p-DIOXIN	6.40E-07	Max Detect	1.09E-09	0	0	3.84E-10	1.47E-09	NA	NA	NA	NA
2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	4.70E-06	Max Detect	2.57E-09	0	0	2.82E-09	5.39E-09	NA	NA	NA	NA
2,3,4,7,8-PENTACHLORODIBENZOFURAN	4.90E-06	Max Detect	6.50E-09	0	0	2.94E-09	9.44E-09	NA	NA	NA	NA
2,3,7,8-TETRACHLORODIBENZOFURAN	5.20E-06	Max Detect	9.75E-09	0	0	3.12E-09	1.29E-08	NA	NA	NA	NA
2,3,7,8-TETRACHLORODIBENZO-p-DIOXIN	2.60E-07	Max Detect	4.88E-10	0	0	1.56E-10	6.44E-10	6.37E-07	6.37E-06	0.001	0.000
HEPTACHLORINATED DIBENZOFURANS, (TOTAL)	8.67E-04	Max Detect	0.00E+00	0	0	5.20E-07	5.20E-07	NA	NA	NA	NA
HEPTACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	8.20E-04	Max Detect	0.00E+00	0	0	4.92E-07	4.92E-07	NA	NA	NA	NA
HEXACHLORINATED DIBENZOFURANS, (TOTAL)	3.78E-04	Max Detect	0.00E+00	0	0	2.27E-07	2.27E-07	NA	NA	NA	NA
HEXACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	5.33E-05	Max Detect	0.00E+00	0	0	3.20E-08	3.20E-08	NA	NA	NA	NA
OCTACHLORODIBENZOFURAN	7.87E-04	Max Detect	0.00E+00	0	0	4.72E-07	4.72E-07	NA	NA	NA	NA
OCTACHLORODIBENZO-p-DIOXIN	0.0045	Max Detect	0.00E+00	0	0	2.69E-06	2.69E-06	NA	NA	NA	NA

TABLE 4-3
Building 35-752—Exposure Estimates and Hazard Quotient Calculations for Birds and Mammals
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

			Exposure Estimate by Pathway[b] (mg/kg/d)							Hazard Quotients[c]	
Analytes[a]	Exposure Point Concentration (mg/kg)	EPC Basis	Plant	Invertebrate	Mammal	Soil	Total	NOAEL (mg/kg/d)	LOAEL (mg/kg/d)	NOAEL HQ	LOAEL HQ
PENTACHLORINATED DIBENZOFURANS, (TOTAL)	2.10E-04	Max Detect	0.00E+00	0	0	1.26E-07	1.26E-07	NA	NA	NA	NA
PENTACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	7.55E-06	Log Normal	0.00E+00	0	0	4.53E-09	4.53E-09	NA	NA	NA	NA
TETRACHLORINATED DIBENZOFURANS, (TOTAL)	7.59E-05	Normal	0.00E+00	0	0	4.56E-08	4.56E-08	NA	NA	NA	NA
TETRACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	4.40E-06	Log Normal	0.00E+00	0	0	2.64E-09	2.64E-09	NA	NA	NA	NA
Total TCDD-Mammal	2.27E-05	Max Detect	4.25E-08	0	0	1.36E-08	5.61E-08	1.31E-06	1.31E-05	0.043	0.004
PESTICIDES/PCBs											
ALDRIN	0.0030	Max Detect	0.0000	0	0	0.0000	0.0000	0.127	0.637	0.000	0.000
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	0.0060	Max Detect	0.0001	0	0	0.0000	0.0001	0.255	1.275	0.001	0.000
DIELDRIN	0.011	Max Detect	0.0001	0	0	0.0000	0.0001	0.013	0.127	0.005	0.001
ENDRIN	0.034	Max Detect	0.0002	0	0	0.0000	0.0003	0.051	0.506	0.005	0.001
ENDRIN ALDEHYDE	0.0030	Max Detect	0.0001	0	0	0.0000	0.0001	0.051	0.506	0.001	0.000
p,p'-DDD	0.38	Log Normal	0.0010	0	0	0.0002	0.0013	0.510	2.550	0.002	0.000
p,p'-DDE	0.020	Log Normal	0.0000	0	0	0.0000	0.0000	0.510	2.550	0.000	0.000
p,p'-DDT (1,1-bis(CHLOROPHENYL)-2,2,2-TRICHLOROETHANE)	0.31	Max Detect	0.0006	0	0	0.0002	0.0008	0.510	2.550	0.001	0.000
PCB-1260 (AROCLOR 1260)	6.3	Normal	0.0092	0	0	0.0038	0.0130	0.037	0.374	0.347	0.035
SVOCs											
2-METHYLNAPHTHALENE	0.026	Max Detect	0.0005	0	0	0.0000	0.0005	2.826	28.256	0.000	0.000
ACENAPHTHENE	0.023	Max Detect	0.0004	0	0	0.0000	0.0004	96.272	192.544	0.000	0.000
ACENAPHTHYLENE	0.012	Max Detect	0.0002	0	0	0.0000	0.0002	96.272	192.544	0.000	0.000
ANTHRACENE	0.38	Log Normal	0.0041	0	0	0.0002	0.0044	550.124	NA	0.000	NA
BENZO(a)ANTHRACENE	0.52	Log Normal	0.0020	0	0	0.0003	0.0024	0.550	5.501	0.004	0.000
BENZO(a)PYRENE	0.40	Log Normal	0.0011	0	0	0.0002	0.0013	0.550	5.501	0.002	0.000
BENZO(b)FLUORANTHENE	0.65	Log Normal	0.0016	0	0	0.0004	0.0020	0.550	5.501	0.004	0.000
BENZO(g,h,i)PERYLENE	0.32	Log Normal	0.0005	0	0	0.0002	0.0007	0.550	5.501	0.001	0.000
BENZO(k)FLUORANTHENE	0.54	Log Normal	0.0014	0	0	0.0003	0.0017	0.550	5.501	0.003	0.000
bis(2-ETHYLHEXYL) PHTHALATE	0.68	Log Normal	0.0006	0	0	0.0004	0.0011	10.067	100.673	0.000	0.000
CHRYSENE	0.92	Log Normal	0.0036	0	0	0.0006	0.0042	0.550	5.501	0.008	0.001
DIBENZ(a,h)ANTHRACENE	0.016	Max Detect	0.0000	0	0	0.0000	0.0000	0.550	5.501	0.000	0.000
DIBENZOFURAN	0.027	Max Detect	0.0004	0	0	0.0000	0.0004	NA	NA	NA	NA
FLUORANTHENE	2.7	Log Normal	0.0177	0	0	0.0016	0.0193	68.766	137.531	0.000	0.000
FLUORENE	0.10	Max Detect	0.0015	0	0	0.0001	0.0015	68.766	137.531	0.000	0.000
INDENO(1,2,3-c,d)PYRENE	0.34	Log Normal	0.0006	0	0	0.0002	0.0008	0.550	5.501	0.001	0.000
PHENANTHRENE	1.1	Log Normal	0.0120	0	0	0.0007	0.0126	68.766	137.531	0.000	0.000
PYRENE	1.7	Log Normal	0.0109	0	0	0.0010	0.0119	41.259	68.766	0.000	0.000
TPHs											
DIESEL RANGE ORGANICS	766	Log Normal	22.9714	0	0	0.4594	23.4309	637.496	956.244	0.037	0.025
GASOLINE RANGE ORGANICS	0.35	Max Detect	0.0106	0	0	0.0002	0.0108	637.496	956.244	0.000	0.000
TPH	740	Max Detect	22.2000	0	0	0.4440	22.6440	637.496	956.244	0.036	0.024
VOCs											
1,1,1-TRICHLOROETHANE	0.0039	Log Normal	0.0003	0	0	0.0000	0.0003	NA	NA	NA	NA
1,2,4-TRIMETHYLBENZENE	8.00E-04	Max Detect	0.0000	0	0	0.0000	0.0000	68.723	206.169	0.000	0.000
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	0.0040	Max Detect	0.0001	0	0	0.0000	0.0001	68.723	206.169	0.000	0.000
1,4-DICHLOROBENZENE	0.0041	Log Normal	0.0001	0	0	0.0000	0.0001	NA	NA	NA	NA

TABLE 4-3
Building 35-752—Exposure Estimates and Hazard Quotient Calculations for Birds and Mammals
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Analytes[a]	Exposure Point Concentration (mg/kg)	EPC Basis	Exposure Estimate by Pathway[b] (mg/kg/d)					NOAEL (mg/kg/d)	LOAEL (mg/kg/d)	Hazard Quotients[c]	
			Plant	Invertebrate	Mammal	Soil	Total			NOAEL HQ	LOAEL HQ
2-CHLOROTOLUENE	0.0091	Normal	0.0003	0	0	0.0000	0.0003	NA	NA	NA	NA
ACETONE	0.21	Log Normal	0.1622	0	0	0.0001	0.1624	6.375	31.875	0.025	0.005
METHYL ETHYL KETONE (2-BUTANONE)	0.036	Log Normal	0.0173	0	0	0.0000	0.0173	1129.006	2913.996	0.000	0.000
NAPHTHALENE	0.027	Log Normal	0.0008	0	0	0.0000	0.0008	31.161	93.484	0.000	0.000
n-PROPYLBENZENE	0.056	Log Normal	0.0013	0	0	0.0000	0.0013	68.723	206.169	0.000	0.000
P-CYMENE (p-ISOPROPYLTOLUENE)	0.043	Log Normal	0.0007	0	0	0.0000	0.0007	68.723	206.169	0.000	0.000
TOLUENE	0.0031	Log Normal	0.0002	0	0	0.0000	0.0002	32.055	320.552	0.000	0.000
XYLENES, TOTAL	0.0033	Log Normal	0.0001	0	0	0.0000	0.0001	114.112	227.586	0.000	0.000
Red-Backed Vole											
METALS											
BARIUM	98	Log Normal	2.4395	0	0	0.3753	2.8148	6.100	NA	0.461	NA
CHROMIUM, TOTAL	38	Log Normal	0.2525	0	0	0.1478	0.4003	3.872	NA	0.103	NA
LEAD	57	Log Normal	0.4109	0	0	0.2201	0.6311	1.086	5.549	0.581	0.114
NICKEL	39	Log Normal	0.2657	0	0	0.1479	0.4136	5.903	NA	0.070	NA
ZINC	73	Log Normal	8.3565	0	0	0.2800	8.6365	188.894	377.788	0.046	0.023
DIOXINS/FURANS											
1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	1.66E-04	Max Detect	4.84E-07	0	0	6.37E-07	1.12E-06	NA	NA	NA	NA
1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN	5.18E-04	Max Detect	1.18E-06	0	0	1.99E-06	3.17E-06	NA	NA	NA	NA
1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	2.37E-05	Max Detect	6.91E-08	0	0	9.10E-08	1.60E-07	NA	NA	NA	NA
1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	5.81E-05	Max Detect	1.69E-07	0	0	2.23E-07	3.93E-07	NA	NA	NA	NA
1,2,3,4,7,8-HEXACHLORODIBENZO-p-DIOXIN	2.60E-06	Max Detect	8.44E-09	0	0	9.98E-09	1.84E-08	NA	NA	NA	NA
1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	6.80E-06	Max Detect	1.98E-08	0	0	2.61E-08	4.59E-08	NA	NA	NA	NA
1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	1.17E-05	Max Detect	2.64E-08	0	0	4.49E-08	7.13E-08	NA	NA	NA	NA
1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	5.34E-06	Log Normal	1.20E-08	0	0	2.05E-08	3.25E-08	NA	NA	NA	NA
1,2,3,7,8-PENTACHLORODIBENZOFURAN	3.02E-05	Log Normal	2.40E-07	0	0	1.16E-07	3.56E-07	NA	NA	NA	NA
1,2,3,7,8-PENTACHLORODIBENZO-p-DIOXIN	6.40E-07	Max Detect	5.81E-09	0	0	2.46E-09	8.26E-09	NA	NA	NA	NA
2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	4.70E-06	Max Detect	1.37E-08	0	0	1.80E-08	3.18E-08	NA	NA	NA	NA
2,3,4,7,8-PENTACHLORODIBENZOFURAN	4.90E-06	Max Detect	3.47E-08	0	0	1.88E-08	5.35E-08	NA	NA	NA	NA
2,3,7,8-TETRACHLORODIBENZOFURAN	5.20E-06	Max Detect	5.20E-08	0	0	2.00E-08	7.20E-08	NA	NA	NA	NA
2,3,7,8-TETRACHLORODIBENZO-p-DIOXIN	2.60E-07	Max Detect	2.60E-09	0	0	9.98E-10	3.60E-09	1.18E-06	1.18E-05	0.003	0.000
HEPTACHLORINATED DIBENZOFURANS, (TOTAL)	8.67E-04	Max Detect	0.00E+00	0	0	3.33E-06	3.33E-06	NA	NA	NA	NA
HEPTACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	8.20E-04	Max Detect	0.00E+00	0	0	3.15E-06	3.15E-06	NA	NA	NA	NA
HEXACHLORINATED DIBENZOFURANS, (TOTAL)	3.78E-04	Max Detect	0.00E+00	0	0	1.45E-06	1.45E-06	NA	NA	NA	NA
HEXACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	5.33E-05	Max Detect	0.00E+00	0	0	2.05E-07	2.05E-07	NA	NA	NA	NA
OCTACHLORODIBENZOFURAN	7.87E-04	Max Detect	0.00E+00	0	0	3.02E-06	3.02E-06	NA	NA	NA	NA
OCTACHLORODIBENZO-p-DIOXIN	0.0045	Max Detect	0.00E+00	0	0	1.72E-05	1.72E-05	NA	NA	NA	NA
PENTACHLORINATED DIBENZOFURANS, (TOTAL)	2.10E-04	Max Detect	0.00E+00	0	0	8.06E-07	8.06E-07	NA	NA	NA	NA
PENTACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	7.55E-06	Log Normal	0.00E+00	0	0	2.90E-08	2.90E-08	NA	NA	NA	NA
TETRACHLORINATED DIBENZOFURANS, (TOTAL)	7.59E-05	Normal	0.00E+00	0	0	2.92E-07	2.92E-07	NA	NA	NA	NA
TETRACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	4.40E-06	Log Normal	0.00E+00	0	0	1.69E-08	1.69E-08	NA	NA	NA	NA
Total TCDD-Mammal	2.27E-05	Max Detect	2.27E-07	0	0	8.70E-08	3.14E-07	1.31E-06	1.31E-05	0.239	0.024
PESTICIDES/PCBs											
ALDRIN	0.0030	Max Detect	0.0000	0	0	0.0000	0.0000	0.236	1.181	0.000	0.000

TABLE 4-3
Building 35-752—Exposure Estimates and Hazard Quotient Calculations for Birds and Mammals
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Analytes[a]	Exposure Point Concentration (mg/kg)	EPC Basis	Exposure Estimate by Pathway[b] (mg/kg/d)					NOAEL (mg/kg/d)	LOAEL (mg/kg/d)	Hazard Quotients[c]	
			Plant	Invertebrate	Mammal	Soil	Total			NOAEL HQ	LOAEL HQ
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	0.0060	Max Detect	0.0007	0	0	0.0000	0.0007	0.472	2.361	0.001	0.000
DIELDRIN	0.011	Max Detect	0.0003	0	0	0.0000	0.0003	0.024	0.236	0.015	0.001
ENDRIN	0.034	Max Detect	0.0013	0	0	0.0001	0.0014	0.094	0.937	0.015	0.001
ENDRIN ALDEHYDE	0.0030	Max Detect	0.0003	0	0	0.0000	0.0003	0.094	0.937	0.003	0.000
p,p'-DDD	0.38	Log Normal	0.0055	0	0	0.0015	0.0070	0.944	4.722	0.007	0.001
p,p'-DDE	0.020	Log Normal	0.0002	0	0	0.0001	0.0002	0.944	4.722	0.000	0.000
p,p'-DDT (1,1-bis(CHLOROPHENYL)-2,2,2-TRICHLOROETHANE)	0.31	Max Detect	0.0031	0	0	0.0012	0.0043	0.944	4.722	0.005	0.001
PCB-1260 (AROCLOR 1260)	6.3	Normal	0.0492	0	0	0.0240	0.0732	0.069	0.693	1.06	0.106
SVOCs											
2-METHYLNAPHTHALENE	0.026	Max Detect	0.0028	0	0	0.0001	0.0029	5.233	52.327	0.001	0.000
ACENAPHTHENE	0.023	Max Detect	0.0023	0	0	0.0001	0.0024	178.287	356.574	0.000	0.000
ACENAPHTHYLENE	0.012	Max Detect	0.0011	0	0	0.0000	0.0012	178.287	356.574	0.000	0.000
ANTHRACENE	0.38	Log Normal	0.0220	0	0	0.0015	0.0235	1018.784	NA	0.000	NA
BENZO(a)ANTHRACENE	0.52	Log Normal	0.0109	0	0	0.0020	0.0129	1.019	10.188	0.013	0.001
BENZO(a)PYRENE	0.40	Log Normal	0.0058	0	0	0.0015	0.0073	1.019	10.188	0.007	0.001
BENZO(b)FLUORANTHENE	0.65	Log Normal	0.0087	0	0	0.0025	0.0112	1.019	10.188	0.011	0.001
BENZO(g,h,i)PERYLENE	0.32	Log Normal	0.0028	0	0	0.0012	0.0040	1.019	10.188	0.004	0.000
BENZO(k)FLUORANTHENE	0.54	Log Normal	0.0072	0	0	0.0021	0.0093	1.019	10.188	0.009	0.001
bis(2-ETHYLHEXYL) PHTHALATE	0.68	Log Normal	0.0034	0	0	0.0026	0.0061	18.644	186.437	0.000	0.000
CHRYSENE	0.92	Log Normal	0.0192	0	0	0.0035	0.0227	1.019	10.188	0.022	0.002
DIBENZ(a,h)ANTHRACENE	0.016	Max Detect	0.0001	0	0	0.0001	0.0002	1.019	10.188	0.000	0.000
DIBENZOFURAN	0.027	Max Detect	0.0023	0	0	0.0001	0.0024	NA	NA	NA	NA
FLUORANTHENE	2.7	Log Normal	0.0943	0	0	0.0104	0.1047	127.348	254.696	0.001	0.000
FLUORENE	0.10	Max Detect	0.0078	0	0	0.0004	0.0082	127.348	254.696	0.000	0.000
INDENO(1,2,3-c,d)PYRENE	0.34	Log Normal	0.0030	0	0	0.0013	0.0043	1.019	10.188	0.004	0.000
PHENANTHRENE	1.1	Log Normal	0.0638	0	0	0.0042	0.0680	127.348	254.696	0.001	0.000
PYRENE	1.7	Log Normal	0.0581	0	0	0.0063	0.0645	76.409	127.348	0.001	0.001
TPHs											
DIESEL RANGE ORGANICS	766	Log Normal	122.5143	0	0	2.9403	125.4546	1180.589	1770.883	0.106	0.071
GASOLINE RANGE ORGANICS	0.35	Max Detect	0.0565	0	0	0.0014	0.0578	1180.589	1770.883	0.000	0.000
TPH	740	Max Detect	118.4000	0	0	2.8416	121.2416	1180.589	1770.883	0.103	0.068
VOCs											
1,1,1-TRICHLOROETHANE	0.0039	Log Normal	0.0014	0	0	0.0000	0.0014	NA	NA	NA	NA
1,2,4-TRIMETHYLBENZENE	8.00E-04	Max Detect	0.0001	0	0	0.0000	0.0001	127.269	381.808	0.000	0.000
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	0.0040	Max Detect	0.0006	0	0	0.0000	0.0006	127.269	381.808	0.000	0.000
1,4-DICHLOROBENZENE	0.0041	Log Normal	0.0006	0	0	0.0000	0.0007	NA	NA	NA	NA
2-CHLOROTOLUENE	0.0091	Normal	0.0014	0	0	0.0000	0.0015	NA	NA	NA	NA
ACETONE	0.21	Log Normal	0.8653	0	0	0.0008	0.8661	11.806	59.029	0.073	0.015
METHYL ETHYL KETONE (2-BUTANONE)	0.036	Log Normal	0.0924	0	0	0.0001	0.0925	2090.823	5396.472	0.000	0.000
NAPHTHALENE	0.027	Log Normal	0.0044	0	0	0.0001	0.0045	57.708	173.125	0.000	0.000
n-PROPYLBENZENE	0.056	Log Normal	0.0069	0	0	0.0002	0.0071	127.269	381.808	0.000	0.000
P-CYMENE (p-ISOPROPYLTOLUENE)	0.043	Log Normal	0.0037	0	0	0.0002	0.0039	127.269	381.808	0.000	0.000
TOLUENE	0.0031	Log Normal	0.0009	0	0	0.0000	0.0009	59.364	593.635	0.000	0.000

TABLE 4-3
Building 35-752—Exposure Estimates and Hazard Quotient Calculations for Birds and Mammals
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Analytes[a]	Exposure Point Concentration (mg/kg)	EPC Basis	Exposure Estimate by Pathway[b] (mg/kg/d)					NOAEL (mg/kg/d)	LOAEL (mg/kg/d)	Hazard Quotients[c]	
			Plant	Invertebrate	Mammal	Soil	Total			NOAEL HQ	LOAEL HQ
XYLENES, TOTAL	0.0033	Log Normal	0.0006	0	0	0.0000	0.0007	211.325	421.470	0.000	0.000

Notes:

[a] Although values are presented for heptachlorinated dibenzofurans (total), heptachlorinated dibenzo-p-dioxins (total), hexachlorinated dibenzofurans (total), hexachlorinated dibenzo-p-dioxins (total), octachlorodibenzofurans, octachlorodibenzo-p-dioxins, pentachlorinated dibenzofurans (total), pentachlorinated dibenzo-p-dioxins (total), tetrachlorinated dibenzofurans (total), and tetrachlorinated dibenzo-p-dioxins (total) in Table 2-5, these represent aggregates of individual dioxins and furans and are not evaluated. Individual dioxin and furan congeners are evaluated, though appropriate toxicity benchmarks are not available for many of these.

[b] Exposure estimates by each pathway (i.e., plant portion of diet, invertebrate portion of diet, or small mammal portion of diet and soil ingestion) were calculated using the exposure model presented in Section 3.1.3, bioaccumulation values and models presented in Tables 3-7 to 3-9 for plants, invertebrates (earthworms as surrogate), and small mammals, respectively, and receptor-specific life history parameters (body weight, food ingestion rate, and proportion of soil in diet) presented in Tables 3-1 to 3-6. The values shown are exposure estimates and do not represent the concentration of the analyte in each pathway, but rather the dose (mg/kg/d) from each pathway.

[c] Hazard Quotients = total exposure estimate/ receptor-specific NOAEL or LOAEL

Bioaccumulation factors used to calculate exposure from VOCs were estimated using the Log Kow models available for plants, invertebrates, and small mammals. Because the Kow values for some VOCs (e.g., acetone) are very low, bioaccumulation of these analytes is overestimated in the model. Therefore, exposure estimates for VOCs are also overestimated.

TABLE 4-4
AVMA—Exposure Estimates and Hazard Quotient Calculations for Birds and Mammals
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Analytes	Exposure Point Concentration (mg/kg)	EPC Basis	Exposure Estimate by Pathway[a]					NOAEL (mg/kg/d)	LOAEL (mg/kg/d)	Hazard Quotients[b]	
			Plant	Invertebrate	Mammal	Soil	Total			NOAEL HQ	LOAEL HQ
American Robin											
METALS											
ALUMINUM	23,774	Log Normal	1.8204	91.3102	0	57.9134	151.0440	95.450	NA	1.58	NA
BARIUM	107	Normal	0.4443	0.8676	0	0.2600	1.5720	19.041	38.082	0.083	0.041
BERYLLIUM	0.46	Log Normal	0.0124	0.0019	0	0.0011	0.0153	NA	NA	NA	NA
LEAD	22	Log Normal	0.0399	0.8649	0	0.0532	0.9579	0.119	1.115	8.05	0.859
NICKEL	46	Log Normal	0.0508	4.3801	0	0.1128	4.5437	11.079	48.723	0.410	0.093
SELENIUM	8.1	Normal	0.1356	0.3801	0	0.0196	0.5353	0.240	0.479	2.23	1.12
VANADIUM	78	Log Normal	0.0101	0.2942	0	0.1910	0.4953	6.621	NA	0.075	NA
PESTICIDES/PCBs											
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	0.0009	Max Detect	0.0000	0.0022	0	0.0000	0.0023	3.422	5.136	0.001	0.000
ALPHA-CHLORDANE	0.0011	Max Detect	0.0000	0.0031	0	0.0000	0.0031	2.222	11.112	0.001	0.000
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	0.0010	Max Detect	0.0000	0.0025	0	0.0000	0.0025	3.422	5.136	0.001	0.000
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	0.0009	Max Detect	0.0000	0.0023	0	0.0000	0.0023	3.422	5.136	0.001	0.000
DIELDRIN	0.0004	Max Detect	0.0000	0.0010	0	0.0000	0.0010	0.054	NA	0.019	NA
ENDOSULFAN SULFATE	0.0005	Max Detect	0.0000	0.0012	0	0.0000	0.0012	7.198	NA	0.000	NA
ENDRIN	0.0022	Max Detect	0.0000	0.0060	0	0.0000	0.0060	0.175	NA	0.035	NA
ENDRIN ALDEHYDE	0.0028	Max Detect	0.0000	0.0074	0	0.0000	0.0075	0.175	NA	0.043	NA
ENDRIN KETONE	0.0003	Max Detect	0.0000	0.0009	0	0.0000	0.0009	0.175	NA	0.005	NA
HEPTACHLOR	0.0017	Max Detect	0.0000	0.0049	0	0.0000	0.0049	0.057	NA	0.086	NA
HEPTACHLOR EPOXIDE	0.0025	Max Detect	0.0000	0.0068	0	0.0000	0.0068	0.057	NA	0.120	NA
METHOXYCHLOR	0.0025	Max Detect	0.0000	0.0068	0	0.0000	0.0069	NA	NA	NA	NA
p,p'-DDD	0.038	Max Detect	0.0001	0.1082	0	0.0001	0.1084	0.004	0.360	25.8	0.301
p,p'-DDE	0.039	Max Detect	0.0001	0.1139	0	0.0001	0.1141	0.004	0.360	27.2	0.317
p,p'-DDT	0.24	Max Detect	0.0004	0.6948	0	0.0006	0.6958	0.004	0.360	166	1.94
SVOCs											
2-METHYLNAPHTHALENE	1.5	Max Detect	0.0267	3.9118	0	0.0037	3.9422	18.687	186.869	0.211	0.021
ACENAPHTHENE	1.2	Max Detect	0.0202	3.1368	0	0.0029	3.1600	18.687	186.869	0.169	0.017
ANTHRACENE	1.1	Max Detect	0.0106	2.9472	0	0.0027	2.9605	18.687	186.869	0.158	0.016
BENZO(a)ANTHRACENE	1.2	Max Detect	0.0042	3.3632	0	0.0029	3.3703	18.687	186.869	0.180	0.018
BENZO(a)PYRENE	1.1	Max Detect	0.0027	3.1328	0	0.0027	3.1381	18.687	186.869	0.168	0.017
BENZO(b)FLUORANTHENE	1.1	Max Detect	0.0025	3.1438	0	0.0027	3.1490	18.687	186.869	0.169	0.017
BENZO(g,h,i)PERYLENE	0.47	Max Detect	0.0007	1.3698	0	0.0011	1.3716	18.687	186.869	0.073	0.007
BENZO(k)FLUORANTHENE	0.45	Max Detect	0.0010	1.2861	0	0.0011	1.2882	18.687	186.869	0.069	0.007
bis(2-ETHYLHEXYL) PHTHALATE	0.080	Normal	0.0001	0.2390	0	0.0002	0.2393	0.966	NA	0.248	NA
CHRYSENE	1.3	Max Detect	0.0045	3.6434	0	0.0032	3.6511	18.687	186.869	0.195	0.020
DIBENZ(a,h)ANTHRACENE	0.15	Log Normal	0.0002	0.4500	0	0.0004	0.4506	18.687	186.869	0.024	0.002
DIBENZOFURAN	0.77	Max Detect	0.0109	2.0286	0	0.0019	2.0414	NA	NA	NA	NA
DI-n-BUTYL PHTHALATE	0.41	Normal	0.0037	1.0948	0	0.0010	1.0995	0.097	0.966	11.4	1.14
DI-n-OCTYLPHTHALATE	0.091	Log Normal	0.0000	0.2791	0	0.0002	0.2794	0.097	0.966	2.89	0.289
FLUORANTHENE	2.1	Max Detect	0.0122	5.7534	0	0.0051	5.7708	18.687	186.869	0.309	0.031

TABLE 4-4
AVMA—Exposure Estimates and Hazard Quotient Calculations for Birds and Mammals
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

			Exposure Estimate by Pathway[a]							Hazard Quotients[b]	
Analytes	Exposure Point Concentration (mg/kg)	EPC Basis	Plant	Invertebrate	Mammal	Soil	Total	NOAEL (mg/kg/d)	LOAEL (mg/kg/d)	NOAEL HQ	LOAEL HQ
FLUORENE	1.1	Max Detect	0.0143	2.9082	0	0.0027	2.9253	18.687	186.869	0.157	0.016
INDENO(1,2,3-c,d)PYRENE	0.53	Max Detect	0.0008	1.5417	0	0.0013	1.5438	18.687	186.869	0.083	0.008
PHENANTHRENE	4.2	Max Detect	0.0405	11.2530	0	0.0102	11.3037	18.687	186.869	0.605	0.060
PYRENE	3.1	Max Detect	0.0182	8.4899	0	0.0076	8.5156	18.687	186.869	0.456	0.046
TPHs											
DIESEL RANGE ORGANICS	3,800	Max Detect	101.3840	339.4160	0	9.2568	450.0568	299.644	2996.442	1.50	0.150
GASOLINE RANGE ORGANICS	6.0	Max Detect	0.1601	0.5359	0	0.0146	0.7106	299.644	2996.442	0.002	0.000
VOCs											
1,2,4-TRIMETHYLBENZENE	0.085	Max Detect	0.0019	0.2197	0	0.0002	0.2217	18.687	186.869	0.012	0.001
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	0.0079	Log Normal	0.0002	0.0203	0	0.0000	0.0205	18.687	186.869	0.001	0.000
ACETONE	0.26	Max Detect	0.1752	0.5775	0	0.0006	0.7534	45.543	NA	0.017	NA
ETHYLBENZENE	0.029	Log Normal	0.0010	0.0743	0	0.0001	0.0753	18.687	186.869	0.004	0.000
HEXACHLOROBUTADIENE	0.014	Log Normal	0.0001	0.0380	0	0.0000	0.0382	NA	NA	NA	NA
ISOPROPYLBENZENE (CUMENE)	0.0082	Log Normal	0.0002	0.0211	0	0.0000	0.0213	18.687	186.869	0.001	0.000
METHYL ETHYL KETONE (2-BUTANONE)	0.081	Normal	0.0342	0.1826	0	0.0002	0.2170	NA	NA	NA	NA
METHYLENE CHLORIDE	0.20	Max Detect	0.0360	0.4709	0	0.0005	0.5074	NA	NA	NA	NA
NAPHTHALENE	0.36	Max Detect	0.0100	0.9206	0	0.0009	0.9315	22.767	227.669	0.041	0.004
O-XYLENE (1,2-DIMETHYLBENZENE)	0.097	Max Detect	0.0033	0.2458	0	0.0002	0.2494	43.791	437.913	0.006	0.001
P-CYMENE (p-ISOPROPYLTOLUENE)	0.036	Max Detect	0.0005	0.0948	0	0.0001	0.0954	18.687	186.869	0.005	0.001
TOLUENE	0.062	Max Detect	0.0030	0.1548	0	0.0002	0.1579	18.687	186.869	0.008	0.001
XYLENES, m & p	0.14	Max Detect	0.0045	0.3557	0	0.0003	0.3605	43.791	437.913	0.008	0.001
Bald Eagle											
METALS											
ALUMINUM	23,774	Log Normal	0	0	12.0049	0	12.0049	215.666	NA	0.056	NA
BARIUM	107	Normal	0	0	0.1160	0	0.1160	43.022	86.046	0.003	0.001
BERYLLIUM	0.46	Log Normal	0	0	0.0089	0	0.0089	NA	NA	NA	NA
LEAD	22	Log Normal	0	0	0.0810	0	0.0810	0.269	2.520	0.301	0.032
NICKEL	46	Log Normal	0	0	0.0000	0	0.0000	25.033	110.088	0.000	0.000
SELENIUM	8.1	Normal	0	0	0.0278	0	0.0278	0.542	1.083	0.051	0.026
VANADIUM	78	Log Normal	0	0	0.0185	0	0.0185	14.959	NA	0.001	NA
PESTICIDES/PCB											
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	0.0009	Max Detect	0	0	0.0001	0	0.0001	7.732	11.604	0.000	0.000
ALPHA-CHLORDANE	0.0011	Max Detect	0	0	0.0000	0	0.0000	5.021	25.107	0.000	0.000
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	0.0010	Max Detect	0	0	0.0001	0	0.0001	7.732	11.604	0.000	0.000
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	0.0009	Max Detect	0	0	0.0001	0	0.0001	7.732	11.604	0.000	0.000
DIELDRIN	0.0004	Max Detect	0	0	0.0000	0	0.0000	0.121	NA	0.000	NA
ENDOSULFAN SULFATE	0.0005	Max Detect	0	0	0.0000	0	0.0000	16.264	NA	0.000	NA
ENDRIN	0.0022	Max Detect	0	0	0.0001	0	0.0001	0.395	NA	0.000	NA
ENDRIN ALDEHYDE	0.0028	Max Detect	0	0	0.0002	0	0.0002	0.395	NA	0.001	NA
ENDRIN KETONE	0.0003	Max Detect	0	0	0.0000	0	0.0000	0.395	NA	0.000	NA
HEPTACHLOR	0.0017	Max Detect	0	0	0.0001	0	0.0001	0.129	NA	0.001	NA

TABLE 4-4
AVMA—Exposure Estimates and Hazard Quotient Calculations for Birds and Mammals
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

			Exposure Estimate by Pathway[a]							Hazard Quotients[b]	
Analytes	Exposure Point Concentration (mg/kg)	EPC Basis	Plant	Invertebrate	Mammal	Soil	Total	NOAEL (mg/kg/d)	LOAEL (mg/kg/d)	NOAEL HQ	LOAEL HQ
HEPTACHLOR EPOXIDE	0.0025	Max Detect	0	0	0.0002	0	0.0002	0.129	NA	0.001	NA
METHOXYCHLOR	0.0025	Max Detect	0	0	0.0002	0	0.0002	NA	NA	NA	NA
p,p'-DDD	0.038	Max Detect	0	0	0.0017	0	0.0017	0.009	0.812	0.176	0.002
p,p'-DDE	0.039	Max Detect	0	0	0.0014	0	0.0014	0.009	0.812	0.148	0.002
p,p'-DDT	0.24	Max Detect	0	0	0.0092	0	0.0092	0.009	0.812	0.974	0.011
SVOCs											
2-METHYLNAPHTHALENE	1.5	Max Detect	0	0	0.1348	0	0.1348	42.222	422.224	0.003	0.000
ACENAPHTHENE	1.2	Max Detect	0	0	0.1056	0	0.1056	42.222	422.224	0.003	0.000
ANTHRACENE	1.1	Max Detect	0	0	0.0782	0	0.0782	42.222	422.224	0.002	0.000
BENZO(a)ANTHRACENE	1.2	Max Detect	0	0	0.0594	0	0.0594	42.222	422.224	0.001	0.000
BENZO(a)PYRENE	1.1	Max Detect	0	0	0.0481	0	0.0481	42.222	422.224	0.001	0.000
BENZO(b)FLUORANTHENE	1.1	Max Detect	0	0	0.0468	0	0.0468	42.222	422.224	0.001	0.000
BENZO(g,h,i)PERYLENE	0.47	Max Detect	0	0	0.0172	0	0.0172	42.222	422.224	0.000	0.000
BENZO(k)FLUORANTHENE	0.45	Max Detect	0	0	0.0191	0	0.0191	42.222	422.224	0.000	0.000
bis(2-ETHYLHEXYL) PHTHALATE	0.080	Normal	0	0	0.0025	0	0.0025	2.182	NA	0.001	NA
CHRYSENE	1.3	Max Detect	0	0	0.0644	0	0.0644	42.222	422.224	0.002	0.000
DIBENZ(a,h)ANTHRACENE	0.15	Log Normal	0	0	0.0057	0	0.0057	42.222	422.224	0.000	0.000
DIBENZOFURAN	0.77	Max Detect	0	0	0.0632	0	0.0632	NA	NA	NA	NA
DI-n-BUTYL PHTHALATE	0.41	Normal	0	0	0.0284	0	0.0284	0.218	2.182	0.130	0.013
DI-n-OCTYLPHTHALATE	0.091	Log Normal	0	0	0.0022	0	0.0022	0.218	2.182	0.010	0.001
FLUORANTHENE	2.1	Max Detect	0	0	0.1244	0	0.1244	42.222	422.224	0.003	0.000
FLUORENE	1.1	Max Detect	0	0	0.0876	0	0.0876	42.222	422.224	0.002	0.000
INDENO(1,2,3-c,d)PYRENE	0.53	Max Detect	0	0	0.0197	0	0.0197	42.222	422.224	0.000	0.000
PHENANTHRENE	4.2	Max Detect	0	0	0.2987	0	0.2987	42.222	422.224	0.007	0.001
PYRENE	3.1	Max Detect	0	0	0.1843	0	0.1843	42.222	422.224	0.004	0.000
TPHs											
DIESEL RANGE ORGANICS	3,800	Max Detect	0	0	72.9600	0	72.9600	677.034	6770.340	0.108	0.011
GASOLINE RANGE ORGANICS	6.0	Max Detect	0	0	0.1152	0	0.1152	677.034	6770.340	0.000	0.000
VOCs											
1,2,4-TRIMETHYLBENZENE	0.085	Max Detect	0	0	0.0083	0	0.0083	42.222	422.224	0.000	0.000
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	0.0079	Log Normal	0	0	0.0008	0	0.0008	42.222	422.224	0.000	0.000
ACETONE	0.26	Max Detect	0	0	0.2963	0	0.2963	102.902	NA	0.003	NA
ETHYLBENZENE	0.029	Log Normal	0	0	0.0035	0	0.0035	42.222	422.224	0.000	0.000
HEXACHLOROBUTADIENE	0.014	Log Normal	0	0	0.0009	0	0.0009	NA	NA	NA	NA
ISOPROPYLBENZENE (CUMENE)	0.0082	Log Normal	0	0	0.0008	0	0.0008	42.222	422.224	0.000	0.000
METHYL ETHYL KETONE (2-BUTANONE)	0.081	Normal	0	0	0.0561	0	0.0561	NA	NA	NA	NA
METHYLENE CHLORIDE	0.20	Max Detect	0	0	0.0642	0	0.0642	NA	NA	NA	NA
NAPHTHALENE	0.36	Max Detect	0	0	0.0389	0	0.0389	51.441	514.409	0.001	0.000
O-XYLENE (1,2-DIMETHYLBENZENE)	0.097	Max Detect	0	0	0.0115	0	0.0115	98.945	989.446	0.000	0.000
P-CYMENE (p-ISOPROPYLTOLUENE)	0.036	Max Detect	0	0	0.0030	0	0.0030	42.222	422.224	0.000	0.000
TOLUENE	0.062	Max Detect	0	0	0.0086	0	0.0086	42.222	422.224	0.000	0.000

TABLE 4-4
AVMA—Exposure Estimates and Hazard Quotient Calculations for Birds and Mammals
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Analytes	Exposure Point Concentration (mg/kg)	EPC Basis	Exposure Estimate by Pathway[a]					NOAEL (mg/kg/d)	LOAEL (mg/kg/d)	Hazard Quotients[b]	
			Plant	Invertebrate	Mammal	Soil	Total			NOAEL HQ	LOAEL HQ
XYLENES, m & p	0.14	Max Detect	0	0	0.0162	0	0.0162	98.945	989.446	0.000	0.000
Masked Shrew											
METALS											
ALUMINUM	23,774	Log Normal	0	263.7486	0	797.3793	1061.1279	2.181	21.813	486	48.6
BARIUM	107	Normal	0	2.5062	0	3.5802	6.0864	6.767	NA	0.899	NA
BERYLLIUM	0.46	Log Normal	0	0.0054	0	0.0155	0.0209	0.864	NA	0.024	NA
LEAD	22	Log Normal	0	2.4982	0	0.7323	3.2305	1.205	6.156	2.68	0.525
NICKEL	46	Log Normal	0	12.6518	0	1.5531	14.2049	6.549	NA	2.17	NA
SELENIUM	8.1	Normal	0	1.0979	0	0.2702	1.3682	0.262	0.432	5.22	3.17
VANADIUM	78	Log Normal	0	0.8497	0	2.6300	3.4797	1.755	2.750	1.98	1.27
PESTICIDES/PCBs											
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	0.0009	Max Detect	0	0.0065	0	0.0000	0.0065	0.019	0.195	0.340	0.033
ALPHA-CHLORDANE	0.0011	Max Detect	0	0.0090	0	0.0000	0.0091	5.199	10.398	0.002	0.001
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	0.0010	Max Detect	0	0.0072	0	0.0000	0.0072	0.524	2.619	0.014	0.003
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	0.0009	Max Detect	0	0.0065	0	0.0000	0.0066	0.019	0.195	0.344	0.034
DIELDRIN	0.0004	Max Detect	0	0.0029	0	0.0000	0.0029	0.026	0.262	0.110	0.011
ENDOSULFAN SULFATE	0.0005	Max Detect	0	0.0034	0	0.0000	0.0035	0.196	NA	0.018	NA
ENDRIN	0.0022	Max Detect	0	0.0174	0	0.0001	0.0174	0.104	1.040	0.168	0.017
ENDRIN ALDEHYDE	0.0028	Max Detect	0	0.0214	0	0.0001	0.0215	0.104	1.040	0.207	0.021
ENDRIN KETONE	0.0003	Max Detect	0	0.0025	0	0.0000	0.0025	0.104	1.040	0.024	0.002
HEPTACHLOR	0.0017	Max Detect	0	0.0141	0	0.0001	0.0141	0.139	1.395	0.101	0.010
HEPTACHLOR EPOXIDE	0.0025	Max Detect	0	0.0197	0	0.0001	0.0198	0.139	1.395	0.142	0.014
METHOXYCHLOR	0.0025	Max Detect	0	0.0198	0	0.0001	0.0198	5.239	10.478	0.004	0.002
p,p'-DDD	0.038	Max Detect	0	0.3125	0	0.0013	0.3138	1.048	5.239	0.299	0.060
p,p'-DDE	0.039	Max Detect	0	0.3291	0	0.0013	0.3304	1.048	5.239	0.315	0.063
p,p'-DDT	0.24	Max Detect	0	2.0071	0	0.0080	2.0151	1.048	5.239	1.92	0.385
SVOCs											
2-METHYLNAPHTHALENE	1.5	Max Detect	0	11.2993	0	0.0503	11.3496	5.805	58.051	1.96	0.196
ACENAPHTHENE	1.2	Max Detect	0	9.0607	0	0.0402	9.1009	197.789	395.577	0.046	0.023
ANTHRACENE	1.1	Max Detect	0	8.5130	0	0.0369	8.5499	1130.221	NA	0.008	NA
BENZO(a)ANTHRACENE	1.2	Max Detect	0	9.7145	0	0.0402	9.7548	1.130	11.302	8.63	0.863
BENZO(a)PYRENE	1.1	Max Detect	0	9.0490	0	0.0369	9.0859	1.130	11.302	8.04	0.804
BENZO(b)FLUORANTHENE	1.1	Max Detect	0	9.0810	0	0.0369	9.1179	1.130	11.302	8.07	0.807
BENZO(g,h,i)PERYLENE	0.47	Max Detect	0	3.9567	0	0.0158	3.9725	1.130	11.302	3.51	0.351
BENZO(k)FLUORANTHENE	0.45	Max Detect	0	3.7149	0	0.0151	3.7300	1.130	11.302	3.30	0.330
bis(2-ETHYLHEXYL) PHTHALATE	0.080	Normal	0	0.6904	0	0.0027	0.6930	20.683	206.830	0.034	0.003
CHRYSENE	1.3	Max Detect	0	10.5241	0	0.0436	10.5677	1.130	11.302	9.35	0.935
DIBENZ(a,h)ANTHRACENE	0.15	Log Normal	0	1.2999	0	0.0052	1.3051	1.130	11.302	1.15	0.115
DIBENZOFURAN	0.77	Max Detect	0	5.8596	0	0.0258	5.8855	NA	NA	NA	NA
DI-n-BUTYL PHTHALATE	0.41	Normal	0	3.1623	0	0.0137	3.1759	621.622	2071.695	0.005	0.002
DI-n-OCTYLPHTHALATE	0.091	Log Normal	0	0.8062	0	0.0030	0.8092	621.622	2071.695	0.001	0.000

TABLE 4-4
AVMA—Exposure Estimates and Hazard Quotient Calculations for Birds and Mammals
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Analytes	Exposure Point Concentration (mg/kg)	EPC Basis	Exposure Estimate by Pathway[a]					NOAEL (mg/kg/d)	LOAEL (mg/kg/d)	Hazard Quotients[b]	
			Plant	Invertebrate	Mammal	Soil	Total			NOAEL HQ	LOAEL HQ
FLUORANTHENE	2.1	Max Detect	0	16.6188	0	0.0704	16.6892	141.278	282.555	0.118	0.059
FLUORENE	1.1	Max Detect	0	8.4004	0	0.0369	8.4373	141.278	282.555	0.060	0.030
INDENO(1,2,3-c,d)PYRENE	0.53	Max Detect	0	4.4531	0	0.0178	4.4709	1.130	11.302	3.96	0.396
PHENANTHRENE	4.2	Max Detect	0	32.5042	0	0.1409	32.6450	141.278	282.555	0.231	0.116
PYRENE	3.1	Max Detect	0	24.5229	0	0.1040	24.6268	84.767	141.278	0.291	0.174
TPHs											
DIESEL RANGE ORGANICS	3,800	Max Detect	0	980.4000	0	127.4520	1107.8520	1309.725	1964.588	0.846	0.564
GASOLINE RANGE ORGANICS	6.0	Max Detect	0	1.5480	0	0.2012	1.7492	1309.725	1964.588	0.001	0.001
VOCs											
1,2,4-TRIMETHYLBENZENE	0.085	Max Detect	0	0.6346	0	0.0029	0.6374	141.190	423.571	0.005	0.002
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	0.0079	Log Normal	0	0.0585	0	0.0003	0.0588	141.190	423.571	0.000	0.000
ACETONE	0.26	Max Detect	0	1.6681	0	0.0087	1.6769	13.097	65.486	0.128	0.026
ETHYLBENZENE	0.029	Log Normal	0	0.2146	0	0.0010	0.2156	124.504	373.513	0.002	0.001
HEXACHLOROBUTADIENE	0.014	Log Normal	0	0.1099	0	0.0005	0.1104	15.717	157.167	0.007	0.001
ISOPROPYLBENZENE (CUMENE)	0.0082	Log Normal	0	0.0611	0	0.0003	0.0613	141.190	423.571	0.000	0.000
METHYL ETHYL KETONE (2-BUTANONE)	0.081	Normal	0	0.5273	0	0.0027	0.5300	2319.523	5986.754	0.000	0.000
METHYLENE CHLORIDE	0.20	Max Detect	0	1.3603	0	0.0067	1.3670	7.662	65.486	0.178	0.021
NAPHTHALENE	0.36	Max Detect	0	2.6593	0	0.0121	2.6713	64.020	192.061	0.042	0.014
O-XYLENE (1,2-DIMETHYLBENZENE)	0.097	Max Detect	0	0.7101	0	0.0033	0.7134	234.441	467.572	0.003	0.002
P-CYMENE (p-ISOPROPYLTOLUENE)	0.036	Max Detect	0	0.2737	0	0.0012	0.2749	141.190	423.571	0.002	0.001
TOLUENE	0.062	Max Detect	0	0.4472	0	0.0021	0.4493	65.857	658.569	0.007	0.001
XYLENES, m & p	0.14	Max Detect	0	1.0273	0	0.0047	1.0320	234.441	467.572	0.004	0.002
Coyote											
METALS											
ALUMINUM	23,774	Log Normal	0	0	9.3788	9.9851	19.3639	1.341	13.414	14.4	1.44
BARIUM	107	Normal	0	0	0.0906	0.2082	0.2988	4.161	NA	0.072	NA
BERYLLIUM	0.46	Log Normal	0	0	0.0069	0.0009	0.0078	0.532	NA	0.015	NA
LEAD	22	Log Normal	0	0	0.0633	0.0426	0.1059	0.741	3.785	0.143	0.028
NICKEL	46	Log Normal	0	0	0.0000	0.0903	0.0903	4.027	NA	0.022	NA
SELENIUM	8.1	Normal	0	0	0.0217	0.0157	0.0374	0.161	0.266	0.232	0.141
VANADIUM	78	Log Normal	0	0	0.0145	0.1529	0.1674	1.079	1.691	0.155	0.099
PESTICIDES/PCBs											
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	0.0009	Max Detect	0	0	0.0001	0.0000	0.0001	0.012	0.120	0.005	0.001
ALPHA-CHLORDANE	0.0011	Max Detect	0	0	0.0000	0.0000	0.0000	3.197	6.394	0.000	0.000
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	0.0010	Max Detect	0	0	0.0001	0.0000	0.0001	0.322	1.611	0.000	0.000
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	0.0009	Max Detect	0	0	0.0001	0.0000	0.0001	0.012	0.120	0.005	0.000
DIELDRIN	0.0004	Max Detect	0	0	0.0000	0.0000	0.0000	0.016	0.161	0.001	0.000
ENDOSULFAN SULFATE	0.0005	Max Detect	0	0	0.0000	0.0000	0.0000	0.121	NA	0.000	NA
ENDRIN	0.0022	Max Detect	0	0	0.0001	0.0000	0.0001	0.064	0.639	0.002	0.000
ENDRIN ALDEHYDE	0.0028	Max Detect	0	0	0.0002	0.0000	0.0002	0.064	0.639	0.003	0.000
ENDRIN KETONE	0.0003	Max Detect	0	0	0.0000	0.0000	0.0000	0.064	0.639	0.000	0.000

TABLE 4-4
AVMA—Exposure Estimates and Hazard Quotient Calculations for Birds and Mammals
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Analytes	Exposure Point Concentration (mg/kg)	EPC Basis	Exposure Estimate by Pathway[a]					NOAEL (mg/kg/d)	LOAEL (mg/kg/d)	Hazard Quotients[b]	
			Plant	Invertebrate	Mammal	Soil	Total			NOAEL HQ	LOAEL HQ
HEPTACHLOR	0.0017	Max Detect	0	0	0.0001	0.0000	0.0001	0.086	0.858	0.001	0.000
HEPTACHLOR EPOXIDE	0.0025	Max Detect	0	0	0.0001	0.0000	0.0001	0.086	0.858	0.001	0.000
METHOXYCHLOR	0.0025	Max Detect	0	0	0.0001	0.0000	0.0001	3.222	6.443	0.000	0.000
p,p'-DDD	0.038	Max Detect	0	0	0.0013	0.0001	0.0014	0.644	3.222	0.002	0.000
p,p'-DDE	0.039	Max Detect	0	0	0.0011	0.0001	0.0012	0.644	3.222	0.002	0.000
p,p'-DDT	0.24	Max Detect	0	0	0.0072	0.0005	0.0077	0.644	3.222	0.012	0.002
SVOCs											
2-METHYLNAPHTHALENE	1.5	Max Detect	0	0	0.1053	0.0029	0.1083	3.570	35.697	0.030	0.003
ACENAPHTHENE	1.2	Max Detect	0	0	0.0825	0.0023	0.0848	121.627	243.254	0.001	0.000
ANTHRACENE	1.1	Max Detect	0	0	0.0611	0.0021	0.0633	695.011	NA	0.000	NA
BENZO(a)ANTHRACENE	1.2	Max Detect	0	0	0.0464	0.0023	0.0488	0.695	6.950	0.070	0.007
BENZO(a)PYRENE	1.1	Max Detect	0	0	0.0376	0.0021	0.0397	0.695	6.950	0.057	0.006
BENZO(b)FLUORANTHENE	1.1	Max Detect	0	0	0.0366	0.0021	0.0387	0.695	6.950	0.056	0.006
BENZO(g,h,i)PERYLENE	0.47	Max Detect	0	0	0.0134	0.0009	0.0144	0.695	6.950	0.021	0.002
BENZO(k)FLUORANTHENE	0.45	Max Detect	0	0	0.0150	0.0009	0.0158	0.695	6.950	0.023	0.002
bis(2-ETHYLHEXYL) PHTHALATE	0.080	Normal	0	0	0.0019	0.0002	0.0021	12.719	127.187	0.000	0.000
CHRYSENE	1.3	Max Detect	0	0	0.0503	0.0025	0.0528	0.695	6.950	0.076	0.008
DIBENZ(a,h)ANTHRACENE	0.15	Log Normal	0	0	0.0044	0.0003	0.0047	0.695	6.950	0.007	0.001
DIBENZOFURAN	0.77	Max Detect	0	0	0.0494	0.0015	0.0509	NA	NA	NA	NA
DI-n-BUTYL PHTHALATE	0.41	Normal	0	0	0.0222	0.0008	0.0230	382.256	1273.956	0.000	0.000
DI-n-OCTYLPHTHALATE	0.091	Log Normal	0	0	0.0017	0.0002	0.0019	382.256	1273.956	0.000	0.000
FLUORANTHENE	2.1	Max Detect	0	0	0.0972	0.0041	0.1013	86.876	173.753	0.001	0.001
FLUORENE	1.1	Max Detect	0	0	0.0684	0.0021	0.0706	86.876	173.753	0.001	0.000
INDENO(1,2,3-c,d)PYRENE	0.53	Max Detect	0	0	0.0154	0.0010	0.0164	0.695	6.950	0.024	0.002
PHENANTHRENE	4.2	Max Detect	0	0	0.2334	0.0082	0.2416	86.876	173.753	0.003	0.001
PYRENE	3.1	Max Detect	0	0	0.1440	0.0060	0.1500	52.126	86.876	0.003	0.002
TPHs											
DIESEL RANGE ORGANICS	3,800	Max Detect	0	0	57.0000	7.4100	64.4100	805.395	1208.092	0.080	0.053
GASOLINE RANGE ORGANICS	6.0	Max Detect	0	0	0.0900	0.0117	0.1017	805.395	1208.092	0.000	0.000
VOCs											
1,2,4-TRIMETHYLBENZENE	0.085	Max Detect	0	0	0.0065	0.0002	0.0067	86.823	260.468	0.000	0.000
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	0.0079	Log Normal	0	0	0.0007	0.0000	0.0007	86.823	260.468	0.000	0.000
ACETONE	0.26	Max Detect	0	0	0.2315	0.0005	0.2320	8.054	40.270	0.029	0.006
ETHYLBENZENE	0.029	Log Normal	0	0	0.0027	0.0001	0.0028	76.562	229.686	0.000	0.000
HEXACHLOROBUTADIENE	0.014	Log Normal	0	0	0.0007	0.0000	0.0007	9.665	96.647	0.000	0.000
ISOPROPYLBENZENE (CUMENE)	0.0082	Log Normal	0	0	0.0006	0.0000	0.0007	86.823	260.468	0.000	0.000
METHYL ETHYL KETONE (2-BUTANONE)	0.081	Normal	0	0	0.0438	0.0002	0.0440	1426.354	3681.459	0.000	0.000
METHYLENE CHLORIDE	0.20	Max Detect	0	0	0.0501	0.0004	0.0505	4.712	40.270	0.011	0.001
NAPHTHALENE	0.36	Max Detect	0	0	0.0304	0.0007	0.0311	39.368	118.105	0.001	0.000
O-XYLENE (1,2-DIMETHYLBENZENE)	0.097	Max Detect	0	0	0.0090	0.0002	0.0092	144.166	287.526	0.000	0.000
P-CYMENE (p-ISOPROPYLTOLUENE)	0.036	Max Detect	0	0	0.0023	0.0001	0.0024	86.823	260.468	0.000	0.000

TABLE 4-4
AVMA—Exposure Estimates and Hazard Quotient Calculations for Birds and Mammals
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Analytes	Exposure Point Concentration (mg/kg)	EPC Basis	Exposure Estimate by Pathway[a]					NOAEL (mg/kg/d)	LOAEL (mg/kg/d)	Hazard Quotients[b]	
			Plant	Invertebrate	Mammal	Soil	Total			NOAEL HQ	LOAEL HQ
TOLUENE	0.062	Max Detect	0	0	0.0067	0.0001	0.0069	40.498	404.976	0.000	0.000
XYLENES, m & p	0.14	Max Detect	0	0	0.0126	0.0003	0.0129	144.166	287.526	0.000	0.000
Moose											
METALS											
ALUMINUM	23,774	Log Normal	2.0469	0	0	14.2644	16.3113	1.062	10.617	15.4	1.54
BARIUM	107	Normal	0.4996	0	0	0.0640	0.5636	3.294	NA	0.171	NA
BERYLLIUM	0.46	Log Normal	0.0139	0	0	0.0003	0.0142	0.421	NA	0.034	NA
LEAD	22	Log Normal	0.0448	0	0	0.0131	0.0579	0.586	2.996	0.099	0.019
NICKEL	46	Log Normal	0.0572	0	0	0.0278	0.0850	3.187	NA	0.027	NA
SELENIUM	8.1	Normal	0.1524	0	0	0.0048	0.1573	0.127	0.210	1.23	0.748
VANADIUM	78	Log Normal	0.0114	0	0	0.0470	0.0585	0.854	1.339	0.068	0.044
PESTICIDES/PCBs											
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	0.0009	Max Detect	0.0000	0	0	0.0000	0.0000	1.020	2.040	0.000	0.000
ALPHA-CHLORDANE	0.0011	Max Detect	0.0000	0	0	0.0000	0.0000	2.531	5.061	0.000	0.000
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	0.0010	Max Detect	0.0000	0	0	0.0000	0.0000	0.255	1.275	0.000	0.000
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	0.0009	Max Detect	0.0000	0	0	0.0000	0.0000	1.020	2.040	0.000	0.000
DIELDRIN	0.0004	Max Detect	0.0000	0	0	0.0000	0.0000	0.013	0.127	0.000	0.000
ENDOSULFAN SULFATE	0.0005	Max Detect	0.0000	0	0	0.0000	0.0000	0.096	NA	0.000	NA
ENDRIN	0.0022	Max Detect	0.0000	0	0	0.0000	0.0000	0.051	0.506	0.000	0.000
ENDRIN ALDEHYDE	0.0028	Max Detect	0.0000	0	0	0.0000	0.0001	0.051	0.506	0.001	0.000
ENDRIN KETONE	0.0003	Max Detect	0.0000	0	0	0.0000	0.0000	0.051	0.506	0.000	0.000
HEPTACHLOR	0.0017	Max Detect	0.0000	0	0	0.0000	0.0000	0.068	0.679	0.000	0.000
HEPTACHLOR EPOXIDE	0.0025	Max Detect	0.0000	0	0	0.0000	0.0000	0.068	0.679	0.000	0.000
METHOXYCHLOR	0.0025	Max Detect	0.0000	0	0	0.0000	0.0000	2.550	5.100	0.000	0.000
p,p'-DDD	0.038	Max Detect	0.0001	0	0	0.0000	0.0001	0.510	2.550	0.000	0.000
p,p'-DDE	0.039	Max Detect	0.0001	0	0	0.0000	0.0001	0.510	2.550	0.000	0.000
p,p'-DDT	0.24	Max Detect	0.0005	0	0	0.0001	0.0006	0.510	2.550	0.001	0.000
SVOCs											
2-METHYLNAPHTHALENE	1.5	Max Detect	0.0300	0	0	0.0009	0.0309	2.826	28.256	0.011	0.001
ACENAPHTHENE	1.2	Max Detect	0.0228	0	0	0.0007	0.0235	96.272	192.544	0.000	0.000
ANTHRACENE	1.1	Max Detect	0.0119	0	0	0.0007	0.0126	550.124	NA	0.000	NA
BENZO(a)ANTHRACENE	1.2	Max Detect	0.0047	0	0	0.0007	0.0054	0.550	5.501	0.010	0.001
BENZO(a)PYRENE	1.1	Max Detect	0.0030	0	0	0.0007	0.0037	0.550	5.501	0.007	0.001
BENZO(b)FLUORANTHENE	1.1	Max Detect	0.0028	0	0	0.0007	0.0034	0.550	5.501	0.006	0.001
BENZO(g,h,i)PERYLENE	0.47	Max Detect	0.0008	0	0	0.0003	0.0010	0.550	5.501	0.002	0.000
BENZO(k)FLUORANTHENE	0.45	Max Detect	0.0011	0	0	0.0003	0.0014	0.550	5.501	0.003	0.000
bis(2-ETHYLHEXYL) PHTHALATE	0.080	Normal	0.0001	0	0	0.0000	0.0001	10.067	100.673	0.000	0.000
CHRYSENE	1.3	Max Detect	0.0051	0	0	0.0008	0.0059	0.550	5.501	0.011	0.001
DIBENZ(a,h)ANTHRACENE	0.15	Log Normal	0.0003	0	0	0.0001	0.0003	0.550	5.501	0.001	0.000
DIBENZOFURAN	0.77	Max Detect	0.0122	0	0	0.0005	0.0127	NA	NA	NA	NA
DI-n-BUTYL PHTHALATE	0.41	Normal	0.0042	0	0	0.0002	0.0044	302.568	1008.378	0.000	0.000

TABLE 4-4
AVMA—Exposure Estimates and Hazard Quotient Calculations for Birds and Mammals
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Analytes	Exposure Point Concentration (mg/kg)	EPC Basis	Exposure Estimate by Pathway[a]					NOAEL (mg/kg/d)	LOAEL (mg/kg/d)	Hazard Quotients[b]	
			Plant	Invertebrate	Mammal	Soil	Total			NOAEL HQ	LOAEL HQ
DI-n-OCTYLPHTHALATE	0.091	Log Normal	0.0000	0	0	0.0001	0.0001	302.568	1008.378	0.000	0.000
FLUORANTHENE	2.1	Max Detect	0.0137	0	0	0.0013	0.0150	68.766	137.531	0.000	0.000
FLUORENE	1.1	Max Detect	0.0161	0	0	0.0007	0.0168	68.766	137.531	0.000	0.000
INDENO(1,2,3-c,d)PYRENE	0.53	Max Detect	0.0009	0	0	0.0003	0.0012	0.550	5.501	0.002	0.000
PHENANTHRENE	4.2	Max Detect	0.0456	0	0	0.0025	0.0481	68.766	137.531	0.001	0.000
PYRENE	3.1	Max Detect	0.0205	0	0	0.0019	0.0223	41.259	68.766	0.001	0.000
TPHs											
DIESEL RANGE ORGANICS	3,800	Max Detect	114.0000	0	0	2.2800	116.2800	637.496	956.244	0.182	0.122
GASOLINE RANGE ORGANICS	6.0	Max Detect	0.1800	0	0	0.0036	0.1836	637.496	956.244	0.000	0.000
VOCs											
1,2,4-TRIMETHYLBENZENE	0.085	Max Detect	0.0021	0	0	0.0001	0.0021	68.723	206.169	0.000	0.000
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	0.0079	Log Normal	0.0002	0	0	0.0000	0.0002	68.723	206.169	0.000	0.000
ACETONE	0.26	Max Detect	0.1970	0	0	0.0002	0.1972	6.375	31.875	0.031	0.006
ETHYLBENZENE	0.029	Log Normal	0.0011	0	0	0.0000	0.0011	60.601	181.804	0.000	0.000
HEXACHLOROBUTADIENE	0.014	Log Normal	0.0001	0	0	0.0000	0.0001	7.650	76.500	0.000	0.000
ISOPROPYLBENZENE (CUMENE)	0.0082	Log Normal	0.0002	0	0	0.0000	0.0002	68.723	206.169	0.000	0.000
METHYL ETHYL KETONE (2-BUTANONE)	0.081	Normal	0.0385	0	0	0.0000	0.0385	1129.006	2913.996	0.000	0.000
METHYLENE CHLORIDE	0.20	Max Detect	0.0404	0	0	0.0001	0.0406	3.729	31.875	0.011	0.001
NAPHTHALENE	0.36	Max Detect	0.0112	0	0	0.0002	0.0114	31.161	93.484	0.000	0.000
O-XYLENE (1,2-DIMETHYLBENZENE)	0.097	Max Detect	0.0037	0	0	0.0001	0.0038	114.112	227.586	0.000	0.000
P-CYMENE (p-ISOPROPYLTOLUENE)	0.036	Max Detect	0.0006	0	0	0.0000	0.0006	68.723	206.169	0.000	0.000
TOLUENE	0.062	Max Detect	0.0033	0	0	0.0000	0.0034	32.055	320.552	0.000	0.000
XYLENES, m & p	0.14	Max Detect	0.0051	0	0	0.0001	0.0052	114.112	227.586	0.000	0.000
Red-Backed Vole											
METALS											
ALUMINUM	23,774	Log Normal	10.9170	0	0	91.2921	102.2091	1.966	19.663	52.0	5.20
BARIUM	107	Normal	2.6644	0	0	0.4099	3.0743	6.100	NA	0.504	NA
BERYLLIUM	0.46	Log Normal	0.0741	0	0	0.0018	0.0758	0.779	NA	0.097	NA
LEAD	22	Log Normal	0.2391	0	0	0.0838	0.3230	1.086	5.549	0.297	0.058
NICKEL	46	Log Normal	0.3049	0	0	0.1778	0.4827	5.903	NA	0.082	NA
SELENIUM	8.1	Normal	0.8130	0	0	0.0309	0.8440	0.236	0.390	3.57	2.17
VANADIUM	78	Log Normal	0.0608	0	0	0.3011	0.3620	1.582	2.479	0.229	0.146
PESTICIDES/PCBs											
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	0.0009	Max Detect	0.0001	0	0	0.0000	0.0001	1.889	3.778	0.000	0.000
ALPHA-CHLORDANE	0.0011	Max Detect	0.0000	0	0	0.0000	0.0000	4.686	9.373	0.000	0.000
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	0.0010	Max Detect	0.0001	0	0	0.0000	0.0001	0.472	2.361	0.000	0.000
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	0.0009	Max Detect	0.0001	0	0	0.0000	0.0001	1.889	3.778	0.000	0.000
DIELDRIN	0.0004	Max Detect	0.0000	0	0	0.0000	0.0000	0.024	0.236	0.000	0.000
ENDOSULFAN SULFATE	0.0005	Max Detect	0.0001	0	0	0.0000	0.0001	0.177	NA	0.000	NA
ENDRIN	0.0022	Max Detect	0.0001	0	0	0.0000	0.0001	0.094	0.937	0.001	0.000
ENDRIN ALDEHYDE	0.0028	Max Detect	0.0003	0	0	0.0000	0.0003	0.094	0.937	0.003	0.000

TABLE 4-4
AVMA—Exposure Estimates and Hazard Quotient Calculations for Birds and Mammals
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Analytes	Exposure Point Concentration (mg/kg)	EPC Basis	Exposure Estimate by Pathway[a]					NOAEL (mg/kg/d)	LOAEL (mg/kg/d)	Hazard Quotients[b]	
			Plant	Invertebrate	Mammal	Soil	Total			NOAEL HQ	LOAEL HQ
ENDRIN KETONE	0.0003	Max Detect	0.0000	0	0	0.0000	0.0000	0.094	0.937	0.000	0.000
HEPTACHLOR	0.0017	Max Detect	0.0000	0	0	0.0000	0.0000	0.126	1.257	0.000	0.000
HEPTACHLOR EPOXIDE	0.0025	Max Detect	0.0001	0	0	0.0000	0.0001	0.126	1.257	0.001	0.000
METHOXYCHLOR	0.0025	Max Detect	0.0001	0	0	0.0000	0.0001	4.722	9.445	0.000	0.000
p,p'-DDD	0.038	Max Detect	0.0006	0	0	0.0001	0.0007	0.944	4.722	0.001	0.000
p,p'-DDE	0.039	Max Detect	0.0003	0	0	0.0001	0.0005	0.944	4.722	0.000	0.000
p,p'-DDT	0.24	Max Detect	0.0024	0	0	0.0009	0.0033	0.944	4.722	0.004	0.001
SVOCs											
2-METHYLNAPHTHALENE	1.5	Max Detect	0.1600	0	0	0.0058	0.1658	5.233	52.327	0.032	0.003
ACENAPHTHENE	1.2	Max Detect	0.1214	0	0	0.0046	0.1260	178.287	356.574	0.001	0.000
ANTHRACENE	1.1	Max Detect	0.0636	0	0	0.0042	0.0679	1018.784	NA	0.000	NA
BENZO(a)ANTHRACENE	1.2	Max Detect	0.0250	0	0	0.0046	0.0297	1.019	10.188	0.029	0.003
BENZO(a)PYRENE	1.1	Max Detect	0.0160	0	0	0.0042	0.0202	1.019	10.188	0.020	0.002
BENZO(b)FLUORANTHENE	1.1	Max Detect	0.0147	0	0	0.0042	0.0190	1.019	10.188	0.019	0.002
BENZO(g,h,i)PERYLENE	0.47	Max Detect	0.0040	0	0	0.0018	0.0058	1.019	10.188	0.006	0.001
BENZO(k)FLUORANTHENE	0.45	Max Detect	0.0060	0	0	0.0017	0.0078	1.019	10.188	0.008	0.001
bis(2-ETHYLHEXYL) PHTHALATE	0.080	Normal	0.0004	0	0	0.0003	0.0007	18.644	186.437	0.000	0.000
CHRYSENE	1.3	Max Detect	0.0271	0	0	0.0050	0.0321	1.019	10.188	0.032	0.003
DIBENZ(a,h)ANTHRACENE	0.15	Log Normal	0.0013	0	0	0.0006	0.0019	1.019	10.188	0.002	0.000
DIBENZOFURAN	0.77	Max Detect	0.0652	0	0	0.0030	0.0682	NA	NA	NA	NA
DI-n-BUTYL PHTHALATE	0.41	Normal	0.0224	0	0	0.0016	0.0239	560.331	1867.430	0.000	0.000
DI-n-OCTYLPHTHALATE	0.091	Log Normal	0.0002	0	0	0.0003	0.0006	560.331	1867.430	0.000	0.000
FLUORANTHENE	2.1	Max Detect	0.0733	0	0	0.0081	0.0814	127.348	254.696	0.001	0.000
FLUORENE	1.1	Max Detect	0.0860	0	0	0.0042	0.0903	127.348	254.696	0.001	0.000
INDENO(1,2,3-c,d)PYRENE	0.53	Max Detect	0.0048	0	0	0.0020	0.0068	1.019	10.188	0.007	0.001
PHENANTHRENE	4.2	Max Detect	0.2430	0	0	0.0161	0.2591	127.348	254.696	0.002	0.001
PYRENE	3.1	Max Detect	0.1092	0	0	0.0119	0.1211	76.409	127.348	0.002	0.001
TPHs											
DIESEL RANGE ORGANICS	3,800	Max Detect	608.0000	0	0	14.5920	622.5920	1180.589	1770.883	0.527	0.352
GASOLINE RANGE ORGANICS	6.0	Max Detect	0.9600	0	0	0.0230	0.9830	1180.589	1770.883	0.001	0.001
VOCs											
1,2,4-TRIMETHYLBENZENE	0.085	Max Detect	0.0111	0	0	0.0003	0.0114	127.269	381.808	0.000	0.000
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	0.0079	Log Normal	0.0012	0	0	0.0000	0.0013	127.269	381.808	0.000	0.000
ACETONE	0.26	Max Detect	1.0507	0	0	0.0010	1.0517	11.806	59.029	0.089	0.018
ETHYLBENZENE	0.029	Log Normal	0.0059	0	0	0.0001	0.0060	112.228	336.685	0.000	0.000
HEXACHLOROBUTADIENE	0.014	Log Normal	0.0006	0	0	0.0001	0.0007	14.167	141.671	0.000	0.000
ISOPROPYLBENZENE (CUMENE)	0.0082	Log Normal	0.0011	0	0	0.0000	0.0012	127.269	381.808	0.000	0.000
METHYL ETHYL KETONE (2-BUTANONE)	0.081	Normal	0.2053	0	0	0.0003	0.2056	2090.823	5396.472	0.000	0.000
METHYLENE CHLORIDE	0.20	Max Detect	0.2157	0	0	0.0008	0.2165	6.906	59.029	0.031	0.004
NAPHTHALENE	0.36	Max Detect	0.0598	0	0	0.0014	0.0612	57.708	173.125	0.001	0.000
O-XYLENE (1,2-DIMETHYLBENZENE)	0.097	Max Detect	0.0198	0	0	0.0004	0.0201	211.325	421.470	0.000	0.000

TABLE 4-4
AVMA—Exposure Estimates and Hazard Quotient Calculations for Birds and Mammals
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

			Exposure Estimate by Pathway[a]							Hazard Quotients[b]	
Analytes	Exposure Point Concentration (mg/kg)	EPC Basis	Plant	Invertebrate	Mammal	Soil	Total	NOAEL (mg/kg/d)	LOAEL (mg/kg/d)	NOAEL HQ	LOAEL HQ
P-CYMENE (p-ISOPROPYLTOLUENE)	0.036	Max Detect	0.0031	0	0	0.0001	0.0032	127.269	381.808	0.000	0.000
TOLUENE	0.062	Max Detect	0.0177	0	0	0.0002	0.0179	59.364	593.635	0.000	0.000
XYLENES, m & p	0.14	Max Detect	0.0270	0	0	0.0005	0.0276	211.325	421.470	0.000	0.000

Notes:

[a] Exposure estimates by each pathway (i.e., plant portion of diet, invertebrate portion of diet, or small mammal portion of diet and soil ingestion) were calculated using the exposure model presented in Section 3.1.3, bioaccumulation values

[b] Hazard Quotients = total exposure estimate/ receptor-specific NOAEL or LOAEL

Bioaccumulation factors used to calculate exposure from some VOCs (e.g., acetone) were estimated using the Log Kow models available for plants, invetebrates, and small mammals. Because the Kow values for VOCs are very low, bioac

on laboratory studies; and the resulting HQs for Building 35-752 and the AVMA, respectively. By using both NOAEL and LOAEL TRVs, it is possible to present a range of HQs as opposed to a single value. This portrays risk based on the individual level (NOAEL) up to the population level (LOAEL). Risks at the population level (i.e., high LOAEL-based HQs) are often qualitatively considered more significant than risks at the individual level (i.e., high NOAEL-based HQs). Because there are no special-status species at the OUE sites, birds and mammals were evaluated at a population level, and the primary focus is on the LOAEL-based HQs.

COPECs with HQs less than 1 were considered to pose no risk to bird and mammal receptors. Exceedance of the NOAEL may indicate that some sensitive individuals are at risk, but risk to the population is not expected, whereas exceedance of the LOAEL indicates that population-level risk may be possible. COPECs with LOAEL-based HQs equal to or greater than 1 were further evaluated in a qualitative manner.

4.1.2 Qualitative Evaluation

All COPECs with HQs equal to or greater than 1 for plants and invertebrates and all COPECs with LOAEL-based HQs equal to or greater than 1 for birds and mammals were considered to pose some potential risk and were evaluated further for the representative receptors. Qualitative evaluations assessed chemical information (e.g., magnitude of HQ, frequency of detection, incremental risk, and bioavailability of COPECs) using less conservative assumptions (e.g., area use factors) to refine the predicted potential for exposure and effects. For terrestrial plants and invertebrates (for which the HQ was based on the maximum detected concentration), the qualitative evaluation also considered the HQ based on the 95% UCL of the mean, because that comparison was considered valid for evaluation of risk to the plant community across each of the sites. Qualitative evaluations are discussed below.

The HQ magnitude was used as an indication of risk because the HQ is not an exact estimation of risk. Factors such as bioavailability can greatly affect the potential risk a COPEC may pose. Even if the COPEC had a high HQ, if the frequency of detection was low, the potential exposure to the COPEC is also low.

The frequency of detection and the 95% UCL (rather than maximum concentration) of COPECs were used for plants and invertebrates to indicate the extent of contamination at the site. A low frequency of detection may suggest that contamination is limited to small areas or even to a single location. If the frequency of detection was low, then the chemical may not be retained as a chemical of ecological concern (COEC). No analytes were omitted based solely on low detection frequency, but this factor was considered when evaluating the overall risk an analyte might pose.

Incremental risk also was evaluated qualitatively for inorganics. If HQs exceeded 1, the maximum detected concentration was compared to background again to determine the difference between the two concentrations. (The first comparison was to screen against background, as described in Section 2.4.3.) Background values represent the ambient environment at OUE, and aid in determining the nature and extent of contamination at the site. In some cases, the maximum concentration at the site was less than 10 % greater than the background value. Therefore, though HQs were high, the incremental risk was

considered low (i.e., incremental HQ < 1), indicating that most of the risks from that contaminant may not be a direct result of site activity.

COPECs present in media consumed by wildlife receptors are not absorbed with perfect (100%) efficiency. To assume so overestimates both exposure and risk. The absorption efficiency or bioavailability of a chemical varies as a function of many factors. These factors include the chemical form of the COPEC, the medium in which the COPEC is present, interactions with other COPECs, interactions with ingested food, the environment within the receptors gastrointestinal tract, etc. In some cases, the bioavailability of COPECs is low, indicating that risk is overestimated.

Furthermore, laboratory toxicity tests for terrestrial plants, invertebrates, and birds and mammals often use soluble salts, which generally have a higher bioavailability than forms found naturally in soil. Efroymson et al. (in press) noted the following three explanations for tests using salt solutions added to soil potentially not being representative of tests of metalliferous wastes or background elements in soil: "1) chemicals in the field may have aged in soil and sorbed to soil particles or been transformed to less soluble forms, making them less bioavailable than those that have been freshly added to soil; 2) some metalliferous wastes may have intrinsically lower bioavailability than salts; or 3) specific interactions of metal mixtures may inhibit uptake of individual metals." These explanations are supported by various studies (Tagami and Uchida, 1998; Hamon *et al*., 1998) which demonstrated that aging of inorganic chemicals added as salts or other forms to soil reduced bioavailability to plants or soil organisms.

Area use was also considered in the qualitative evaluation. Some of the receptors have foraging ranges that extend beyond the OUE sites. These receptors include the bald eagle, moose, and coyote. In these instances, actual risks are lower than indicated by the HQ because quantitative exposure estimates assumed all receptors forage exclusively on the sites.

Although individual plants may be affected by COPECs found within their root zones, those effects do not necessarily translate to impacts (or risks) to the entire plant community across the site. Similarly, terrestrial invertebrates may be affected at isolated locations where contamination occurs in soil, but the invertebrate community across the site would not be affected to the same extent. For those reasons, the qualitative evaluations for plants and invertebrates determined the degree to which the calculated risk would change if the appropriate 95% UCL of the mean were used to calculate the HQ. Using the 95% UCL would reflect the "worst-case average condition" for plant and invertebrate exposures on each of the sites, and should be protective of the community-level endpoint for those receptors. Therefore, if the HQ based on the 95% UCL of the mean was less than 1, then the chemical was not considered to present risk to plants and invertebrates at the community level and was not retained as a COEC.

As described above, COPECs were evaluated qualitatively and quantitatively. If a COPEC was considered to pose potential risk to the ecological receptors at the site after these evaluations, the COPEC was retained as a COEC. If COECs were identified, they would be used as the basis for recommendations for remediation because of potentially significant risk or for further evaluation due to the need for more site-specific information.

4.2 Risk Description

Results of the risk characterization are discussed below according to each OUE site and receptor. HQs are presented in Tables 4-1 through 4-4 for the various receptors. Because of inherent uncertainties in the exposure-effects relationship, risk as measured by the HQ is discussed in broad terms. Depending on the conservatism of the TRV and exposure estimate, and the magnitude of the HQ, risks may be determined to be low, moderate, or high. COPECs that had HQs exceeding 1 were further described in the qualitative evaluation. Additionally, the 95% UCLs for these COPECs were compared to the toxicity benchmarks and to background concentrations (for metals only). Calculated HQs based on the 95% UCL for terrestrial plants and invertebrates are presented in Table 4-5. Table 4-6 presents a summary of conclusions for each species evaluated and includes both quantitative and qualitative factors.

4.2.1 Building 35-752

4.2.1.1 Terrestrial Plants

Maximum concentrations of chromium, lead, zinc, and Aroclor 1260 exceeded literature-derived toxicity benchmarks for plants (Table 4-1); therefore, these COPECs were evaluated further.

Though chromium was detected in 100% (49 of 49) of the samples at the site, only 5 of these 49 samples (10%) had chromium concentrations greater than background (43.84 mg/kg). Despite a high magnitude of exceedance (HQ = 64), confidence in the chromium toxicity value is considered low. The benchmark (1 mg/kg) is a very conservative value that is generally well below background levels. Additionally, it is based on hexavalent chromium, a more toxic form than trivalent chromium, which is the form likely to dominate in soils. Chromium also is unlikely to be 100% bioavailable (as was assumed in this evaluation). Soluble salts are often used in laboratory toxicity tests and have a higher bioavailability than forms found naturally in soil.

Lead also had a high detection frequency (48 of 49 samples or 98%) and it had a relatively high proportion of samples that exceeded background (22 of 49 samples or 45%). However, only 4 of the 49 samples (8%) exceeded the plant benchmark (50 mg/kg), and an HQ of 4 for the maximum lead concentration at the site is considered low in magnitude.

Zinc was detected in 100% of samples, though zinc concentrations were reported for only 9 samples at the site. Moreover, only 1 of these 9 samples (11%) exceeded background (80.79 mg/kg), though 8 samples exceeded the plant benchmark (50 mg/kg). This suggests that the toxicity benchmark is overly conservative, because even background concentrations would fail to pass the comparison. The magnitude of exceedance also was very low (HQ = 1.72). Additionally, the maximum zinc value (86 mg/kg) is only 6% greater than the background concentration. Therefore, incremental risk is expected to be negligible.

Aroclor 1260 was detected in 86% (96 of 111) samples at the Building 35-752 site. Although the maximum concentration (100 mg/kg) exceeded the plant screening value (40 mg/kg), this was the only sample that exceeded the benchmark. This represents only 1% of samples at the site. Additionally, the magnitude of exceedance was low (HQ = 2.5).

TABLE 4-5

Hazard Quotient Calculations Based on 95 Percent UCL Soil Concentrations for Chemicals with Maximum Soil Concentrations that Exceeded Benchmarks for Terrestrial Plants and Invertebrates

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Chemical Group	Analytes	Number of Samples	Number of Detects	Frequency of Detection	95 UCL [a] (mg/kg)	Basis	Background [b]	Exceeds Background?	Plant Benchmark (mg/kg)	Plant HQ	Invertebrate Benchmark (mg/kg)	Invertebrate HQ	Conclusion
Building 35-752													
METAL	BARIUM	49	49	100%	86	Log Normal	95.19	No	500	0.172	85	1.01	Though invertebrate HQ greater than 1, 95 UCL is less than background; therefore, no risk.
METAL	CHROMIUM, TOTAL	49	49	100%	36	Log Normal	43.84	No	1	36	0.4	90	Though plant and invertebrate HQs greater than 1, 95 UCL is less than background; therefore, no risk.
METAL	LEAD	49	48	98%	31	Log Normal	14.25	Yes	50	0.620	500	0.062	Plant and invertebrate HQs less than 1; therefore, no risk.
METAL	ZINC	9	9	100%	71	Log Normal	80.79	No	50	1.42	200	0.355	Though plant HQ greater than 1, 95 UCL is less than background; therefore, no risk.
PEST/PCB	PCB-1260 (AROCLOR 1260)	111	96	86%	4.1	Normal	NA	NA	40	0.103	91.5	0.045	Plant and invertebrate HQs less than 1; therefore, no risk.
AVMA													
METAL	ALUMINUM	17	17	100%	21,855	Log Normal	19,000	Yes	50	437			Though background was exceeded and plant HQ is greater than 1, soil pH is greater than 5; therefore, no risk.
METAL	ARSENIC	19	16	84%	6.7	Log Normal	8.84	No	10	0.670	60	0.112	Plant and invertebrate HQs less than 1; therefore, no risk.
METAL	BARIUM	19	19	100%	93	Log Normal	95.19	No	500	0.186	85	1.09	Though invertebrate HQ greater than 1, 95 UCL is less than background; therefore, no risk.
METAL	CHROMIUM, TOTAL	19	19	100%	40	Normal	43.84	No	1	40	0.4	100	Though plant and invertebrate HQs greater than 1, 95 UCL is less than background; therefore, no risk.
METAL	MANGANESE	17	17	100%	646	Log Normal	770	No	500	1.29			Though plant HQ greater than 1, 95 UCL is less than background; therefore, no risk.
METAL	NICKEL	17	17	100%	41	Log Normal	50.64	No	30	1.37	200	0.205	Though plant HQ greater than 1, 95 UCL is less than background; therefore, no risk.
METAL	SELENIUM	19	15	79%	6.1	Log Normal	2.5	Yes	1	6.10	70	0.087	Risk to plants cannot be excluded based on 95 UCL comparisons. Risk considered low however due to all but one sample being an estimated concentration.
METAL	VANADIUM	17	17	100%	75	Normal	64	Yes	2	38			Risk to plants cannot be excluded based on 95 UCL comparisons. Despite moderate/high exceedance of the benchmark and high proportion of samples exceeding background, risk considered low because incremental risk is low. (i.e., 95 UCL is 75 mg/kg compared to the background value of 65 mg/kg).
METAL	ZINC	17	17	100%	75	Log Normal	80.79	No	50	1.50	200	0.375	Though plant HQ greater than 1, 95 UCL is less than background; therefore, no risk.
SVOC	ANTHRACENE	20	7	35%	1.9	Log Normal	NA	NA			5	0.380	Plant and invertebrate HQs less than 1; therefore, no risk.
SVOC	BENZO(a)PYRENE	20	6	30%	1.6	Log Normal	NA	NA	3.3	0.485	840	0.002	Plant and invertebrate HQs less than 1; therefore, no risk.

Notes:

[a] The 95 UCL and basis are from Tables 2-4 and 2-6 for Building 35-752 and AVMA, respectively.

[b] Background concentrations are from Tables 2-8 and 2-10 for Building 35-752 and AVMA, respectively.

95 UCL = 95 percent Upper Confidence Limit of the mean

HQ = Hazard Quotient = 95 UCL soil concentration/plant or invertebrate benchmark

NA = Not Applicable

Shaded cells represent HQs equal to or greater than 1.

Table 4-6
Summary Table of Analytes and Receptors with LOAEL-based HQs greater than One

Receptor	Analyte	HQ[a]	Qualitative Review	Overall Conclusion
Building 35-752 Area				
Terrestrial Plants	Chromium, total	64.0	Few samples greater than background, low confidence in toxicity value, unlikely to be 100% bioavailable	No significant risk
	Lead	4.00	Only 4 of the 49 samples (8%) exceeded the plant benchmark (50 mg/kg), HQ of 4 for the maximum lead concentration at the site is considered low in magnitude	No significant risk
	Zinc	1.72	Only 1 of 9 samples (11%) exceeded background, low HQ	No significant risk
	PCB-1260 (Aroclor 1260)	2.50	Only 1% of samples exceeded benchmark, low HQ	No significant risk
Terrestrial Invertebrates	Barium	2.59	Just 18% of samples greater than background, low HQ	No significant risk
	Chromium, total	160	Low proportion of samples exceeding background and low confidence in the benchmark	No significant risk
	PCB-1260 (Aroclor 1260)	1.09	Low percentage of samples exceeding the benchmark (only 1 of 111 samples or less than 1%), low HQ	No significant risk
American Robin	Lead	1.88	Unlikely to be 100% bioavailable, low HQ, spend only about 50% of the year in area	No significant risk
	2,3,7,8-tetrachlorodibenzofuran	1.65	Low HQ, spend only about 50% of the year in area	No significant risk
	p,p'-DDD	3.00	Low HQ, spend only about 50% of the year in area	No significant risk
	p,p'- DDT	2.49	Low HQ, spend only about 50% of the year in area	No significant risk
Masked Shrew	Lead	1.20	Low bioavailability in mammals, low HQ	Low risk
	Total TCDD-mammal	2.24	Low HQ	Low risk
AVMA				
Terrestrial Plants	Aluminum	522	Soluble aluminum is not expected to occur in AVMA soils	No significant risk
	Arsenic	1.10	Only 1 of the 16 detects (6%) was above background, low HQ	No significant risk
	Chromium, total	51.0	Only 2 samples (11%) were greater than background, low confidence in benchmark	No significant risk
	Manganese	1.70	Only 1 of 17 samples (6%) exceeded background, low HQ	No significant risk
	Nickel	2.07	Only 1 sample (6%) exceeded background, low HQ	No significant risk
	Selenium	11.0	All but one of the detected concentrations were estimated, unlikely to be 100% bioavailable	Low risk
	Vanadium	43.5	Toxicity benchmark is overly conservative (background exceeded benchmark)	Low risk
	Zinc	2.80	Only 2 samples (12%) exceeded the background value, low HQ	No significant risk
	Benzo(a)pyrene	1.55	Detected in just 30% (6) of the 20 samples, and just 1 of 6 samples (17%) exceeded the plant benchmark, low HQ	No significant risk
Terrestrial Invertebrates	Barium	1.41	Toxicity value is less than background, low HQ	No significant risk
	Chromium, total	128	Low proportion of samples exceeding background and low confidence in the benchmark	No significant risk
American Robin	Selenium	1.12	Low HQ, spend only about 50% of the year in area	Low risk
	p,p'-DDT	1.94	Low HQ, spend only about 50% of the year in area	Low risk
	Di-n-butyl phthalate	1.14	Low HQ, spend only about 50% of the year in area	Low risk
Masked Shrew	Aluminum	48.6	Soluble aluminum is not expected to occur in AVMA soils	No significant risk
	Selenium	3.17	Unlikely to be 100% bioavailable, low HQ	Low risk
	Vanadium	1.27	Unlikely to be 100% bioavailable, low HQ	Low risk
Coyote	Aluminum	1.44	Soluble aluminum is not expected to occur in AVMA soils	No significant risk
Moose	Aluminum	1.54	Soluble aluminum is not expected to occur in AVMA soils	No significant risk
Red-backed Vole	Aluminum	5.20	Soluble aluminum is not expected to occur in AVMA soils	No significant risk
	Selenium	2.17	Unlikely to be 100% bioavailable, low HQ	Low risk

Note
[a] HQ = hazard quotient; LOAEL-based HQs were presented only if the LOAEL TRV was exceeded.
LOAEL = Lowest Observed Adverse Effects Level
mg/kg = milligrams per kilogram
TCDD = tetrachlorodibenzo-p-dioxin
TRV = toxicity reference value

The 95% UCLs of the mean for chromium and zinc at this site were less than the background value. Using the 95% UCL for lead and Aroclor 1260 for comparison to the plant toxicity benchmarks to calculate the HQ resulted in HQs less than 1 for lead and Aroclor 1260 (Table 4-5). Thus, the "worst-case average condition" for plant exposures should not result in significant risk to the plant community.

Because terrestrial plants are not mobile and some plants may be exposed to the highest concentrations of a COPEC at the site, risk from soil concentrations of chromium, lead, zinc, and Aroclor 1260 cannot be eliminated where maximum concentrations occurred. However, qualitative evaluation suggests that there is no significant risk to the terrestrial plant community at Building 35-752.

4.2.1.2 Terrestrial Invertebrates

All COPECs at Building 35-752, except barium, chromium, and Aroclor 1260 had HQs less than 1 for terrestrial invertebrates (Table 4-1). Barium was detected in 100% (49 of 49) of the samples, with just 9 of these (18%) greater than background (95.19 mg/kg). However, 37% (18 of 49) of the samples exceeded the invertebrate screening level (85 mg/kg). This suggests that the toxicity benchmark for barium is overly conservative, since even background concentrations would fail to pass the comparison. The magnitude of exceedance also was very low (HQ = 2.6).

Although the maximum chromium value at the site had a high exceedance of the benchmark (HQ = 160), qualitative evaluations of chromium, as described above for plants (e.g., low proportion of samples exceeding background and low confidence in the benchmark), suggest that risk from chromium is low.

As with plants, it is also expected that Aroclor 1260 presents low risk to terrestrial invertebrates given the low magnitude of exceedance by the maximum concentration (HQ = 1.1) and the low percentage of samples exceeding the benchmark (only 1 of 111 samples or less than 1%). The 95% UCL of the mean for barium and chromium at this site were less than the background values, and using the 95% UCL for Aroclor 1260 for comparison to the invertebrate toxicity benchmark to calculate the HQ resulted in an HQ of less than 1 for Aroclor 1260 (Table 4-5).

Terrestrial invertebrates have limited mobility. Therefore, some individuals may be exposed to the highest concentrations at the site. However, the "worst-case average condition" for invertebrate exposures should not result in significant risk to the invertebrate community. As a consequence, risk to terrestrial invertebrates from soil concentrations of barium, chromium, and Aroclor 1260 cannot be excluded where maximum concentrations occurred, but qualitative analysis suggests that there is no significant risk to the terrestrial invertebrate community at Building 35-752.

4.2.1.3 Birds and Mammals

Potential risks to bird and mammal receptors from soil concentrations of COPECs at Building 35-752 are described below by receptor.

American Robin. Estimated exposures of the American robin to chromium, lead, zinc, 2,3,7,8-tetrachlorodibenzofuran (TCDF), Total 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) toxic equivalency quotients (TEQs), aldrin, dichlorodiphenyldichloroethane (DDD),

dichlorodiphenyldichloroethylene (DDE), dichlorodiphenyltrichloroethane (DDT), and bis(2-ethylhexyl)phthalate exceeded the NOAEL-based TRVs. However, only lead, TCDF, DDD, and DDT exposures exceeded the LOAEL-based TRVs (Table 4-3). Because robins are evaluated at the population level, exceedance of the LOAEL is considered more appropriate for evaluation than exceedance of the NOAEL (i.e., risk to individuals). Therefore, lead, TCDF, DDD, and DDT were further evaluated in a qualitative manner.

Lead was detected in 27 of 28 samples (96%) collected from the 0- to 1-foot-bgs depth at Building 35-752 (Tables 2-5 and 4-3). Seventeen of these samples (63%) were above background. Despite this high frequency of detection, several factors indicate that risks to robins from exposure to lead at the site are likely to be low. For example, the magnitude of TRV exceedance was low (HQ = 1.9). Additionally, the bioavailability of lead to birds was assumed to be 100%, which greatly overestimates exposure and risk. For 6 weeks, Hoffman *et al*. (2000) fed mallard ducklings diets containing lead-contaminated sediments from the Coeur d'Alene Basin (a lead-contaminated area) and an equivalent concentration of lead acetate. Concentrations of lead in the blood, livers, and kidneys were measured in both sets of birds. Lead concentrations in all three tissues were 2.01 to 2.25 times higher in birds exposed to lead acetate as compared to those exposed to contaminated sediments with similar concentrations of lead. This indicates that the bioavailability of lead in sediment is approximately 50% relative to lead acetate. Bioavailability of lead in soil at this site is likely to be similar to that in sediment. The avian lead benchmarks were developed from a toxicity study that used lead acetate. Therefore, if it is assumed that lead bioavailability for birds is 50%, the HQ would be reduced to approximately 0.95 (half the original calculation).

TCDF was measured in 11 samples from the 0- to 1-foot-bgs depth (Tables 2-5 and 4-3). Of these samples, 9 (82%) had detectable concentrations. Though exposure to TCDF may present risk to robin populations (i.e., the LOAEL was exceeded), the magnitude of this risk is not expected to be high due to the low exceedance of the LOAEL (i.e., HQ = 1.6). Similarly, the magnitude of exceedance of the LOAEL was low for DDD (HQ = 3.0) and for DDT (HQ = 2.5). DDD and DDT were detected in approximately half of the samples for which these COPECs were measured (59% or 17 of 29 samples for DDD, and 43% or 12 of 28 samples for DDT).

Area use is one factor influencing the likelihood of exposure to all four of these COPECs. American robins have a small home range (0.48 hectare [ha]) and may forage exclusively at the site. However, they are migratory, spending only about 50% of the year in the study area. Therefore, they will not be exposed to site contaminants for half of the year. Nevertheless, it should be noted that they are in the area during the breeding season, which is the time of year expected to result in the highest exposure (i.e., large portion of invertebrate prey in their diet compared to the non-breeding season). Site conditions also affect exposure. Contamination is not uniformly spread across the site, but rather is limited to non-contiguous areas around the building and driveway (Figure 2-2). This patchy distribution decreases the potential for exposure of robins foraging at the site to COPECs. Additionally, the gravelly soil located adjacent to the driveway is unlikely to provide sufficient habitat to support many invertebrate prey items for the robin.

Although risk to American robins from exposure to lead, TCDF, DDD, and DDT cannot be excluded, qualitative evaluation (for factors discussed above) indicates that this risk is unlikely to be significant.

Bald Eagle. Estimated exposures of bald eagles to DDD and DDT at Building 35-752 exceeded the NOAEL-based TRVs, but not the LOAEL-based TRVs (Table 4-3). Exceedance of the NOAEL indicates that some sensitive individual eagles may experience adverse effects associated with exposure to DDD if they were consistently exposed to concentrations found at the site. However, risk to eagle populations is not expected. Therefore, no risk to bald eagle populations from exposure to COPECs at the site is expected.

Masked Shrew. For the masked shrew, estimated exposures to chromium, lead, nickel, Total TCDD TEQs, dieldrin, endrin, DDD, DDT, Aroclor 1260, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, and indeno(1,2,3-c,d)pyrene exceeded NOAEL-based TRVs. However, only lead and Total TCDD TEQs exceeded the LOAEL-based TRVs for shrews (Table 4-3). Because shrews are evaluated at the population level, only those COPECs that exceeded LOAELs were evaluated qualitatively.

As described for the American robin, lead has a high frequency of detection at the site and exceeds background in over half of the samples collected. However, the magnitude of exceedance of the LOAEL-based TRV is low (HQ = 1.2) and the bioavailability of lead for mammals is about half that reported for birds. Maddaloni *et al*. (1998) evaluated lead bioavailability in the Coeur d'Alene Basin by dosing human volunteers with lead-contaminated soil. Although individuals who had fasted prior to ingesting lead absorbed 26.2% of the lead, individuals who had eaten prior to ingesting lead absorbed only 2.52% of the lead. In two rodent studies, the bioavailability of lead in field soils ranged from <10 to 26.8% (Freeman et al., 1992; 1996). These values are similar to the most conservative bioavailability observed in humans. Assuming the bioavailability of lead to be 26.8% (the more conservative assumption), the HQ would be reduced to 0.3 for the shrew.

Total TCDD TEQs were calculated in all 11 samples with measured dioxin and furan values (Tables 2-5 and 4-3). Although the LOAEL was exceeded, risk is not expected to be high due to the low magnitude of exceedance (HQ = 2.2).

Shrews have a small home range (0.55 ha) and are likely to be present on the site year-round. However, as with the robin, the patchy distribution of contamination at the site may decrease the potential for exposure of shrews to COPECs at the site.

Risk to masked shrews associated with exposure to lead and Total TCDD TEQs at Building 35-752 cannot be eliminated. However, this risk is considered low given the results of the qualitative evaluation (e.g., bioavailability of lead, low magnitude of TRV exceedances).

Coyote. Estimated exposures for all COPECs at Building 35-752 were low for coyotes, and no HQs were greater than 1 (Table 4-3). Therefore, no risk to coyotes from COPECs at the site is expected.

Moose. Estimated exposures for all COPECs at Building 35-752 were low for moose (i.e., there were no HQs greater than 1; Table 4-3). Therefore, no risk to moose from COPECs at the site is expected.

Red-backed Vole. Estimated exposures of red-backed voles to Aroclor 1260 at Building 35-752 exceeded the NOAEL-based TRV, but not the LOAEL-based TRV

(Table 4-3). Exceedance of the NOAEL indicates that some sensitive individual voles may experience adverse effects associated with exposure to Aroclor 1260 at the site. However, risk to vole populations is not expected. Therefore, no risk to vole populations from exposure to COPECs at the site is expected.

4.2.2 Armored Vehicle Maintenance Area

4.2.2.1 Terrestrial Plants

Aluminum, arsenic, chromium, manganese, nickel, selenium, vanadium, zinc, and benzo(a)pyrene had HQs greater than 1 (Table 4-2); therefore, these COPECs were evaluated further for their potential risks to terrestrial plants at the AVMA.

Aluminum was detected in all samples collected from 0 to 6 feet bgs and analyzed for aluminum. Of these, 11 samples (65% of the 17 samples) representing 7 trenches had concentrations greater than the background level for aluminum (19,000 mg/kg). Because toxicity of aluminum is associated with low soil pH, the pH of soil (based on solution) was measured at 6 of the 11 sampling locations. These six locations were surface samples (0.5 foot bgs) where the highest concentrations of aluminum had been found. The other five locations were from depths of 1 foot bgs or greater and pH was not measured. The pH values in soil solution at the six locations ranged from 5.2 to 5.66 (see Appendix B for methods and results of pH measurements). Because Mulder *et al*. (1989 in USEPA, 2003) demonstrated that soluble aluminum (i.e., the potentially toxic form) is not found in soil when pH is above 5.0, soluble aluminum is not expected to occur in AVMA soils. Therefore, the aluminum found in AVMA soils is not expected to be toxic.

Although arsenic was detected in most of the samples (16 of 19 or 84%), only 1 of the 16 detects (6%) was above background (8.84 mg/kg). Additionally, all but two of the detected values for arsenic, including the maximum value, were estimated (i.e., have a laboratory qualifier of J), and the magnitude of exceedance is low (HQ = 1.1). Arsenic is not expected to be 100% bioavailable (as assumed in the HQ calculation), and soluble salt forms used in toxicity tests have a higher bioavailability than forms found naturally in soil, which results in lower toxicity thresholds.

As observed at Building 35-752, chromium was detected in all 19 samples collected from the 0- to 6-feet-bgs depth at the AVMA, but only 2 of these samples (11%) were greater than background (43.84 mg/kg). Although the maximum chromium value at the site had a moderate exceedance of the plant benchmark (HQ = 51), qualitative evaluations of chromium as described in Section 4.2.1.1 (e.g., low confidence in the benchmark) suggest that risk from chromium is low.

Manganese was detected in all samples (17 of 17) analyzed for manganese. Only 1 of these 17 samples (6%) exceeded background (770 mg/kg). However, manganese concentrations in all 17 samples exceeded the plant benchmark (500 mg/kg). This suggests that the toxicity benchmark is overly conservative, because even background concentrations would fail to pass the comparison. The magnitude of exceedance also was very low (HQ = 1.7). Additionally, the maximum manganese value (850 mg/kg) is only 9% greater than the background concentration. Therefore, incremental risk is expected to be negligible.

As with manganese, nickel was detected in all samples (17 of 17) analyzed for nickel. Though just 1 of these samples (6%) exceeded background (50.64 mg/kg), all 17 samples exceeded the plant benchmark (30 mg/kg) for nickel. This suggests that the toxicity benchmark is overly conservative, because even background concentrations would fail to pass the comparison. Moreover, the magnitude of risk is not expected to be high due to the low exceedance of the toxicity benchmark (HQ = 2.1).

Selenium was detected in 15 of 19 samples (79%) collected from 0 to 6 feet bgs at the AVMA site. All 15 of these samples exceeded background (2.5 mg/kg), and the magnitude of exceedance was moderate (HQ = 11); however, all but one of the detected concentrations were estimated (i.e., have a laboratory qualifier of J).

Vanadium was detected in 100% of the 17 samples analyzed for vanadium, and 94% (16 of 17 samples) were greater than background (64 mg/kg). Though the magnitude of exceedance is moderate (HQ = 43.5), vanadium concentrations in all 17 samples, and background, exceeded the plant benchmark (2 mg/kg). Thus, the toxicity benchmark may be overly conservative.

Although zinc was detected in all 17 samples analyzed for zinc, only 2 samples (12%) exceeded the background value (80.79 mg/kg). As with selenium, all detected values, and background, exceeded the zinc plant benchmark (50 mg/kg), suggesting the plant benchmark may be overly conservative. Moreover, the magnitude of risk from zinc is considered to be low due to the low exceedance of the benchmark (HQ = 2.8). As previously described for other metals, the use of soluble salts in toxicity tests overestimates the bioavailability of metals such as selenium, vanadium, and zinc, resulting in an overestimation of risk.

Benzo(a)pyrene was detected in just 30% (6) of the 20 samples, and just 1 of these 6 samples (17%) exceeded the plant benchmark (3.3 mg/kg). Additionally, the magnitude of exceedance is low (HQ = 1.5). Therefore, risk from benzo(a)pyrene is expected to be low.

The 95% UCL of the mean for arsenic, chromium, manganese, nickel, and zinc at this site were less than the background value. Using the 95% UCL for comparison to the plant toxicity benchmark to calculate the HQ resulted in HQs less than 1 for arsenic and benzo(a)pyrene. Thus, the "worst-case average condition" for plant exposures to these COPECs should not result in significant risk to the plant community. For selenium and vanadium, the 95% UCL exceeded background values and the toxicity benchmarks, though the 95% UCL for vanadium (75 mg/kg) is only 15% greater than the background concentration (64 mg/kg). Therefore, incremental risk from vanadium is expected to be low.

Despite exceedance of the background and of the plant benchmark, aluminum concentrations in soil at the AVMA are not expected to be toxic to terrestrial plants because of the lack of soluble aluminum at soil pH levels measured on-site. Therefore, aluminum is not considered a COEC.

Because terrestrial plants are not mobile and some individuals may be exposed to the highest concentrations of a COPEC at the site, risk from soil concentrations of arsenic, chromium, manganese, nickel, selenium, vanadium, zinc, and benzo(a)pyrene cannot be eliminated where maximum concentrations occurred. However, qualitative evaluation suggests that there is no

significant risk to the terrestrial plant community from arsenic, chromium, manganese, nickel, zinc, and benzo(a)pyrene. Risk to the terrestrial plant community from exposure to vanadium and selenium cannot be excluded. While exceedance of the benchmark was moderate and a high proportion of samples exceeded background for both selenium and vanadium; the incremental risk was found to be low for vanadium and all but one of the detects for selenium were estimated. As a consequence, risk to the terrestrial plant community from exposure to selenium and vanadium is considered low.

4.2.2.2 Terrestrial Invertebrates

Only barium, chromium, and anthracene had HQs equal to or greater than 1 for terrestrial invertebrates at the AVMA site (Table 4-2).

For barium, 100% (19 of 19) of the samples had detected concentrations, and 32% (6 of 19) of these samples were greater than the background barium concentration (95.19 mg/kg). The toxicity value for barium (85 mg/kg) is less than background, suggesting that the benchmark is overly conservative. This is likely a result of the increased bioavailability of soluble salts used in toxicity testing. Also, the magnitude of exceedance of the benchmark is low (HQ = 1.4).

Despite a high exceedance of the benchmark (HQ = 128), qualitative evaluations of chromium as described previously (e.g., low proportion of samples exceeding background and low confidence in the benchmark; Section 4.2.2.1) suggest that risk from chromium is low.

Anthracene was detected in 35% (7 of 20) of the samples and just 1 of these samples (14%) exceeded the invertebrate benchmark (5 mg/kg). Given the low frequency of detection and low exceedance of the benchmark by the maximum concentration (HQ = 1.1), risk from anthracene is expected to be low.

The 95% UCL of the mean for barium and chromium at this site were less than the background value. For anthracene, using the 95% UCL for comparison to the invertebrate toxicity benchmark to calculate the HQ resulted in an HQ of less than 1.

Terrestrial invertebrates have limited mobility. Therefore, some individuals may be exposed to the highest concentrations at the site. However, the "worst-case average condition" for invertebrate exposures should not result in significant risk to the invertebrate community. As a consequence, risk to terrestrial invertebrates from soil concentrations of barium, chromium, and anthracene cannot be excluded where maximum concentrations occurred, but qualitative analysis suggests that there is no significant risk to the terrestrial invertebrate community at the AVMA.

4.2.2.3 Birds and Mammals

Potential risks to bird and mammal receptors from soil concentrations of COPECs at the AVMA are described below by receptor.

American Robin. Estimated exposures of the American robin to aluminum, lead, selenium, DDD, DDE, DDT, di-n-butyl phthalate, di-n-octyl phthalate, and total petroleum hydrocarbons (TPH) exceeded the NOAEL-based TRVs, though only selenium, DDT, and di-n-butyl phthalate exposures exceeded the LOAEL-based TRVs (Table 4-4). Because robins

are evaluated at the population level, exceedance of the LOAEL is considered more appropriate for evaluation than exceedance of the NOAEL (i.e., risk to individuals). Therefore, selenium, DDT, and di-n-butyl phthalate were further evaluated in a qualitative manner.

Selenium has a high detection frequency among the 8 samples from the 0- to 1-foot-bgs depth (88%) with 100% of detected concentrations exceeding background levels (2.5 mg/kg). However, the magnitude of risk from exposure to selenium is not expected to be high given the low exceedance of the LOAELs (HQ = 1.1). DDT was detected in 6 of 8 samples (75%) collected from the 0- to 1-foot-bgs depth at the AVMA (Tables 2-7 and 4-4). Although the LOAEL was exceeded, the magnitude of risk from exposure to DDT is not expected to be high due to the low exceedance of the LOAEL-based TRV (HQ = 1.9). Similarly, di-n-butyl phthalate was detected frequently at the site (7 of 8 samples or 88%), but the magnitude of TRV exceedance was low (HQ = 1.1). As previously described in Section 4.2.1.3, American robins have a small home range (0.48 ha) and may forage exclusively at the site. However, they are migratory, spending only about 50% of the year in the study area. Therefore, they will not be exposed to site contaminants for half of the year. Nevertheless, it should be noted that they are in the area during the breeding season, which is the time of year expected to result in the highest exposure (i.e., large portion of invertebrate prey in their diet compared to the non-breeding season). Site conditions at the AVMA may also limit exposure. These COPECs were measured in trenches (Figure 2-3) identified as areas of concern by past use of the site. These trenches are limited in spatial extent and create non-contiguous areas that decrease the potential for exposure of robins foraging at the site to COPECs.

Although risk to American robins from exposure to selenium, DDT, and di-n-butyl phthalate cannot be excluded, qualitative evaluation (e.g., low magnitude of exceedance, absence during half of the year) indicates that this risk is low.

Bald Eagle. Estimated exposures for all COPECs at the AVMA were low for bald eagles (i.e., there were no HQs greater than 1; Table 4-4). Therefore, no risk to bald eagles from COPECs at the site is expected.

Masked Shrew. For the masked shrew, estimated exposures to aluminum, lead, nickel, selenium, vanadium, DDT, 2-methylnaphthalene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, and indeno(1,2,3-c,d)pyrene exceeded NOAEL-based TRVs. However, only aluminum, selenium, and vanadium exceeded the LOAEL-based TRVs for shrews (Table 4-4). Because shrews are evaluated at the population level, only those COPECs that exceeded LOAELs were evaluated qualitatively.

Because soluble aluminum is not expected based on soil pH levels measured at the site (Appendix B), aluminum is not considered to pose a risk to ecological receptors. Selenium and vanadium have a high detection frequency among the 8 samples from the 0- to 1-foot-bgs depth (88% and 100%, respectively) with 100% of detected concentrations of both analytes exceeding background levels (2.5 and 64 mg/kg for selenium and vanadium, respectively). However, the magnitude of risk from exposure to selenium and vanadium is not expected to be high given the low exceedance of the LOAELs (HQs of 3.2 and 1.3, respectively). Additionally, Owen (1990) reports the oral bioavailability of selenium in

mammals (humans) to be 60%. Accounting for this bioavailability would reduce the HQ for selenium to 1.9. Shrews have a small home range (0.55 ha) and are likely to be present on the site year-round. However, as with the robin, the patchy distribution of contamination at the site would decrease the potential for exposure of shrews to COPECs at the AVMA.

Despite exceedance of the LOAEL, aluminum is not expected to pose a risk to masked shrews at the AVMA due to the lack of soluble aluminum at pH levels present at the site. Risk from exposure to selenium is also relatively low when the bioavailability and patchy distribution of selenium are accounted for in the exposure. Moreover, the relatively low HQ for selenium indicates that the magnitude of risk is expected to be low. Risk from vanadium cannot be excluded; however, qualitative evaluation (e.g., low magnitude of TRV exceedance) indicates that this risk is low.

Coyote. Estimated exposure of coyotes to aluminum at the AVMA exceeded NOAEL-based and LOAEL-based TRVs (Table 4-4); therefore, this COPEC was evaluated qualitatively. Because soluble aluminum (the form available for uptake and toxicity) is not expected based on soil pH levels measured at the site (Appendix B), aluminum is not considered to pose a risk to ecological receptors. As a consequence, no risk to coyotes from COPECs at the site is expected.

Moose. Estimated exposures to aluminum and selenium at the AVMA exceeded the NOAEL-based TRVs for moose, but only aluminum exceeded the LOAEL-based TRV (Table 4-4). As discussed above for other receptors, soluble aluminum is not expected based on soil pH levels measured at the site (Appendix B), so aluminum is not considered to pose a risk to ecological receptors. As a consequence, no risk to moose from COPECs at the site is expected.

Red-backed Vole. Estimated exposures of red-backed voles to aluminum and selenium at the AVMA exceeded the NOAEL-based and LOAEL-based TRVs (Table 4-4). Because the LOAEL was exceeded (i.e., HQ greater than 1), aluminum and selenium were evaluated in a qualitative manner.

As discussed above for other receptors, aluminum is not expected to pose a risk at the AVMA site due to the lack of soluble aluminum at pH levels present at the site (Appendix B). Selenium had a high detection frequency (88% or 7 of 8 samples), and 100% of detected concentrations exceeded background (2.5 mg/kg). However, the magnitude of risk from exposure to selenium is not expected to be high given the low exceedance of the LOAEL (HQ = 2.2). If a bioavailability value of 60% for selenium is assumed (Owen, 1990) for mammals, the HQ for selenium is reduced to 1.3. Although voles have a small home range (0.013 ha) and are likely to be present on the site year-round, the patchy distribution of contamination at the site may decrease the potential for exposure of voles to COPECs at the AVMA.

Although aluminum was eliminated as a COPEC at the AVMA, risk to red-backed voles from exposure to selenium could not be excluded. However, this risk is expected to be low due to the limited bioavailability of selenium, the low magnitude of TRV exceedance, and the patchy distribution of contamination at the site.

4.3 Uncertainties and Data Gaps

4.3.1 Uncertainties

Uncertainties are inherent in all risk assessments. The nature and magnitude of uncertainties depend on the amount and quality of data available, the degree of knowledge concerning site conditions, and the assumptions made to perform the assessment. A qualitative evaluation of the major uncertainties associated with this assessment, in no particular order of importance, is outlined below:

- Data concerning soil ingestion rates for bird and mammal receptors were not available. As a consequence, the soil ingestion rates were estimated based on assumed similarities to other species for which data were available. The suitability of these assumptions is unknown. Although this uncertainty may result in underestimation of exposure (and risk), it is more likely that exposure and risk are overestimated.
- No life history data specific to the OUE sites were available. Therefore, exposure parameters were either modeled on the basis of allometric relationships (e.g., food ingestion rates) or were based on data from the same species in other portions of its range. Because diet composition as well as food, water, and soil ingestion rates can differ among individuals and locations, published parameter values may not accurately reflect individuals present at OUE sites. As a consequence, risk may be either overestimated or underestimated.
- No site-specific data on COPEC concentrations in terrestrial plants, terrestrial invertebrates, and small mammals were available for wildlife exposure estimate calculations. Therefore, concentrations in these prey items were estimated from literature-reported bioaccumulation models (90th Percentile BAFs, regressions, or Kow-based). The suitability of these bioaccumulation models is unknown. As a consequence, concentrations of COPECs in prey items of wildlife may be either greater or less than data used in this assessment.
- Literature-derived toxicity data based on laboratory studies were used to evaluate risk to all receptor groups. It was assumed that effects observed in laboratory species were indicative of effects that would occur in wild species. The suitability of this assumption is unknown. Consequently, risk may be either overestimated or underestimated.
- Toxicity data are not available for all COPECs considered in this assessment. As a consequence, COPECs for which toxicity data are unavailable were not evaluated. Exclusion of COPECs from evaluation underestimates aggregate risk.
- Bioaccumulation of VOCs in terrestrial plants, terrestrial invertebrates, and small mammals was calculated using Log K_{ow} models from the literature. Because VOCs have very low K_{ow} values, bioaccumulation was overestimated by these models. Therefore, exposure to and risk from VOCs was overestimated for birds and mammals.
- Bioavailability in the toxicity studies used for development of TRVs is generally high because many toxicity tests are performed using soluble salts of inorganic chemicals. Therefore, risk based solely on literature-derived toxicity values may be overestimated.

- Species-specific data were not available to estimate the bioavailability of lead to masked shrews and selenium to masked shrews and red-backed voles. For lead, human and rodent data were available, but only human data were available for selenium. Because shrews are more closely related to primates than to rodents, human studies are probably more appropriate for application to shrews, and it was assumed that bioavailability observed in humans is similar to that for shrews. However, the suitability of this assumption is unknown and risk may be either overestimated or underestimated. For voles, there is considerable uncertainty in the use of human data, but no other information was available for selenium bioavailability.
- Because toxicity data are not available for individual bird and mammal receptors, it was necessary to extrapolate toxicity values from test species to site receptor species. Although improved class-specific scaling factors were employed (Sample and Arenal, 1999), these factors are not chemical-specific and are based on acute toxicity data. As a consequence, risk may be either overestimated or underestimated.
- In this assessment, risks from COPECs were each considered independently (i.e., no ambient media toxicity data were available). Because chemicals may interact in an additive, antagonistic, or synergistic manner, evaluation of single-chemical risk may either underestimate or overestimate risks associated with chemical mixtures.

4.3.2 Data Gaps

Results of this assessment suggest that concentrations of some COPECs in soils at OUE sites may present potential ecological risks to certain receptors. However, several gaps in the available data exist causing increased uncertainty in the risk characterization. Collection of additional site-specific data would provide a more realistic assessment of adverse effects that are actually occurring at the site and would strengthen the risk conclusions. These data would serve to clarify the nature and extent of uncertainties associated with both exposure and effects components of this assessment. If the risks to plants and animals at the OUE sites are to be defined more clearly, additional data collection should focus on the areas most likely to reduce uncertainty and to improve the precision of risk estimates. These include:

- **Site-specific Bioaccumulation Data**. Concentrations of COPECs in wildlife foods were estimated based on bioaccumulation models derived from published literature. Suitability of the models for OUE is unknown. American robins and masked shrews were considered to be at the highest risk at OUE. Because the food pathway was a dominant risk pathway for these species, measures of the site-specific bioaccumulation of COPECs would result in greatly reduced uncertainty in exposure estimates and, therefore, risk estimates. To develop site-specific bioaccumulation data, co-located samples of biota and their associated abiotic media (i.e., resident biota and soil from the same location) could be collected and analyzed for COPECs. These data would serve to verify if the literature data are suitable and can be used to recalculate exposure and risk estimates for birds and mammals. Biota types that could be collected include terrestrial plants and invertebrates. However, the most gain would be obtained from collecting invertebrates, because these prey items provide the greatest source of exposure of robins and shrews to COPECs.

- **Site-specific Bioassays**. Risks to terrestrial plants and invertebrates were based solely on literature-derived toxicity data. As stated above, it is assumed that bioavailability of COPECs in on-site media is comparable to that in toxicity tests. However, because most
- literature toxicity tests are based on additions of soluble salts, such tests may overestimate bioavailability and, therefore, toxicity. To better address and account for both site-specific bioavailability and possible interactions among COPECs, bioassays could be performed for terrestrial plants and invertebrates using soil samples collected from multiple on- and off-site locations. Dose-response relationships developed from these analyses could then be used to evaluate potential toxicity and risks to these biota. In addition, plants or invertebrates exposed to site soils in the bioassays (as well as the soils) could be analyzed for COPECs to characterize bioaccumulation under OUE site-specific conditions.

SECTION 5

Conclusions

Conclusions of this ERA are summarized by site and receptor in the following sections.

5.1 Building 35-752

5.1.1 Terrestrial Plants

Maximum concentrations of chromium, lead, zinc, and Aroclor 1260 exceeded literature-derived toxicity benchmarks for plants (Table 4-1). A qualitative evaluation that assessed magnitude of HQ, frequency of detection, and incremental risk of these COPECs using less conservative assumptions was conducted to assess potential for exposure and effects. Additionally, the 95% UCL was compared to background values (for metals only) and to toxicity benchmarks. This qualitative evaluation resulted in a conclusion that there are no significant risks to the plant community.

5.1.2 Terrestrial Invertebrates

Barium, chromium, and Aroclor 1260 had HQs greater than 1 for terrestrial invertebrates (Table 4-1). A qualitative evaluation of these COPECs, similar to that conducted for plants, resulted in a conclusion that there are no significant risks to the terrestrial invertebrate community from soil concentrations of barium, chromium, and Aroclor 1260 at Building 35-752.

5.1.3 Birds and Mammals

American Robin. Estimated exposures of the American robin to chromium, lead, zinc, TCDF, Total TCDD TEQs, aldrin, DDD, DDE, DDT, and bis(2-ethylhexyl)phthalate exceeded the NOAEL-based TRVs. However, only lead, TCDF, DDD, and DDT exposures exceeded the LOAEL-based TRVs (Table 4-3). Because robins are evaluated at the population level, exceedance of the LOAEL is considered more appropriate for evaluation than exceedance of the NOAEL (i.e., risk to individuals). Therefore, lead, TCDF, DDD, and DDT were further evaluated in a qualitative manner.

In addition to factors considered for plants and invertebrates, this evaluation also considered: that lead in soil is not 100% bioavailable, that robins are present at the site for only about half of the year, the discontinuous nature of the contamination at the site, and the size of the home range for the robin. Although risk to American robins from exposure to lead, TCDF, DDD, and DDT cannot be excluded, qualitative evaluation (including factors listed above, plus the low magnitude of TRV exceedances for all COPECs) indicates that this risk is unlikely to be significant.

Bald Eagle. Estimated exposures of the bald eagle to DDD exceeded the NOAEL-based TRV, but did not exceed the LOAEL-based TRV (Table 4-3). Because eagles are evaluated at the population level, exceedance of the LOAEL is considered more appropriate for evaluation

than exceedance of the NOAEL (i.e., risk to individuals). Therefore, DDD was not further evaluated in a qualitative manner, and no risk to bald eagles from COPECs at the site is expected.

Masked Shrew. For the masked shrew, estimated exposures to chromium, lead, nickel, Total TCDD TEQs, dieldrin, endrin, DDD, DDT, Aroclor 1260, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, and indeno(1,2,3-c,d)pyrene exceeded NOAEL-based TRVs. However, only lead and Total TCDD TEQs exceeded the LOAEL-based TRVs for shrews (Table 4-3). Because shrews are evaluated at the population level, only those COPECs that exceeded LOAELs were evaluated qualitatively. Risk to masked shrews associated with exposure to lead and Total TCDD TEQs at Building 35-752 cannot be eliminated. However, this risk is considered low given the results of the qualitative evaluation (e.g., bioavailability of lead, low magnitude of exceedance of the LOAEL-based TRVs).

Coyote. Estimated exposures for all COPECs at Building 35-752 were low for coyotes, and no HQs were greater than 1 (Table 4-3). Therefore, no risk to coyotes from COPECs at the site is expected.

Moose. Estimated exposures for all COPECs at Building 35-752 were low for moose (i.e., there were no HQs greater than 1; Table 4-3). Therefore, no risk to moose from COPECs at the site is expected.

Red-backed Vole. Estimated exposures of red-backed voles to Aroclor 1260 at Building 35-752 exceeded the NOAEL-based TRV, but not the LOAEL-based TRV (Table 4-3). Exceedance of the NOAEL indicates that some sensitive individual voles may experience adverse effects associated with exposure to Aroclor 1260 at the site. However, no risk to vole populations is expected as a result of exposure to COPECs at this site.

5.2 Armored Vehicle Maintenance Area

5.2.1 Terrestrial Plants

Aluminum, arsenic, chromium, manganese, nickel, selenium, vanadium, zinc, and benzo(a)pyrene had HQs greater than 1 (Table 4-2); therefore, these COPECs were qualitatively evaluated for their potential risks for terrestrial plants at the AVMA. Despite exceedance of the background concentration and of the plant benchmark, aluminum concentrations in soil at the AVMA are not expected to be toxic to terrestrial plants because of the low solubility of aluminum at soil pH levels measured on-site. Therefore, aluminum is not considered a COEC. Qualitative evaluation suggests that there is no significant risk to the terrestrial plant community from arsenic, chromium, manganese, nickel, zinc, and benzo(a)pyrene. Risk to the terrestrial plant community from exposure to vanadium and selenium cannot be excluded, but the qualitative evaluation suggests that risk from selenium and vanadium is low.

5.2.2 Terrestrial Invertebrates

Barium, chromium, and anthracene had HQs equal to or greater than 1 for terrestrial invertebrates at the AVMA site (Table 4-2). A qualitative evaluation of these COPECs,

similar to that conducted for plants, resulted in a conclusion that there are no significant risks to the terrestrial invertebrate community from soil concentrations of barium, chromium, and anthracene at the AVMA.

5.2.3 Birds and Mammals

American Robin. Estimated exposures of the American robin to aluminum, lead, selenium, DDD, DDE, DDT, di-n-butyl phthalate, di-n-octyl phthalate, and TPH exceeded the NOAEL-based TRVs for the American robin, though only selenium, DDT, and di-n-butyl phthalate exposures exceeded the LOAEL-based TRVs (Table 4-4). Because robins are evaluated at the population level, exceedance of the LOAEL is considered more appropriate for evaluation than exceedance of the NOAEL (i.e., risk to individuals). Therefore, selenium, DDT, and di-n-butyl phthalate were further evaluated in a qualitative manner.

Although risk to American robins from exposure to selenium, DDT, and di-n-butyl phthalate cannot be excluded, the qualitative evaluation (e.g., low magnitude of TRV exceedance, absence from the site during about half of the year, and non-contiguous areas of contamination that decrease the potential for exposure of robins foraging at the site to COPECs) indicates that this risk is low.

Bald Eagle. Estimated exposures for eagles to all COPECs at the AVMA showed no HQs greater than 1 (Table 4-4). Therefore, no risk to bald eagles from COPECs at the site is expected.

Masked Shrew. For the masked shrew, estimated exposures to aluminum, lead, nickel, selenium, vanadium, DDT, 2-methylnaphthalene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, and indeno(1,2,3-c,d)pyrene exceeded NOAEL-based TRVs. However, only aluminum, selenium, and vanadium exceeded the LOAEL-based TRVs for shrews (Table 4-4). Because shrews are evaluated at the population level, only those COPECs that exceeded LOAELs were evaluated qualitatively.

Despite exceedance of the LOAEL, aluminum is not expected to pose a risk to masked shrews at the AVMA due to the low solubility of aluminum at pH levels present at the site. Risk from exposure to selenium is also relatively low when the bioavailability and patchy distribution of selenium are accounted for in the exposure. Moreover, the relatively low HQ for selenium indicates that the magnitude of risk is expected to be low. Risk from vanadium cannot be excluded, but qualitative evaluation (e.g., low magnitude of TRV exceedances) indicates that this risk is low.

Coyote. Estimated exposure to aluminum at the AVMA exceeded NOAEL-based and LOAEL-based TRVs for coyotes (Table 4-4), so this COPEC was evaluated qualitatively. Because soluble aluminum (the form available for uptake and toxicity) is not expected based on soil pH levels measured at the site (Appendix B), aluminum is not considered to pose a risk to ecological receptors. As a consequence, no risk to coyotes from COPECs at the site is expected.

Moose. Estimated exposures to aluminum and selenium at the AVMA exceeded the NOAEL-based TRVs for moose, but only aluminum exceeded the LOAEL-based TRV

(Table 4-4). However, for reasons discussed above for other receptors, aluminum is not considered to pose a risk to the moose.

Red-backed Vole. Estimated exposures of red-backed voles to aluminum and selenium at the AVMA exceeded the NOAEL-based and LOAEL-based TRVs (Table 4-4). Because the LOAEL was exceeded (i.e., HQ greater than 1), aluminum and selenium were evaluated in a qualitative manner.

As described for other receptors, aluminum is not expected to pose a risk to red-backed voles at the AVMA site due to the lack of soluble aluminum at pH levels present at the site (Appendix B). Although aluminum was eliminated as a COPEC at the AVMA, risk to red-backed voles from exposure to selenium could not be excluded. However, this risk is expected to be low due to the limited bioavailability of selenium, the low magnitude of TRV exceedance, and the patchy distribution of contamination at the site.

SECTION 6

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Appendices

Human Health Risk Assessment Appendices

Appendix A
Summary of Samples and Summary of Statistics Data Tables

TABLE A-1
Summary of Samples Used in the Risk Assessment
Building 35-752 Surface Soils
Ft. Richardson

Exposure Area	Station ID	Sample ID	Depth Interval	Collection Date	Matrix
Bldg. 35-752, Building 35-752	96-SS01	96575212SL	0.5	September 26, 1996	Surface Soil
Bldg. 35-752, Building 35-753	96-SS02	96575213SL	0.5	September 26, 1996	Surface Soil
Bldg. 35-752, Building 35-754	96-SS03	96575214SL	0.5	September 26, 1996	Surface Soil
Bldg. 35-752, Building 35-755	96-SS04	96575215SL	0.5	September 26, 1996	Surface Soil
Bldg. 35-752, Building 35-756	96-SS05	96575216SL-AVG	0.5	September 26, 1996	Surface Soil
Bldg. 35-752, Building 35-757	96-SS06	96575217SL	0.5	September 26, 1996	Surface Soil
Bldg. 35-752, Burn Pit	AP-4328	02B75288SL	0 - 0.5	July 26, 2002	Surface Soil
Bldg. 35-752, Burn Pit	AP-4330	02B75298SL	0 - 0.5	July 29, 2002	Surface Soil
Bldg. 35-752, Burn Pit	AP-4333	02B752114SL	0 - 0.5	July 29, 2002	Surface Soil
Bldg. 35-752, Burn Pit	AP-4335	02B752124SL	0 - 0.5	July 29, 2002	Surface Soil
Bldg. 35-752, Cooling Pond	AP-3787	96575230SL	0	October 3, 1996	Surface Soil
Bldg. 35-752, Cooling Pond	AP-3788	96575236SL-AVG	0	October 3, 1996	Surface Soil
Bldg. 35-752, Former Drum	SS 1	94575201SL-AVG	6"	October 6, 1994	Surface Soil
Bldg. 35-752, Former Drum	SS 2	94575203SL	6"	October 6, 1994	Surface Soil
Bldg. 35-752, Former Drum	SS 3	94575204SL	6"	October 6, 1994	Surface Soil
Bldg. 35-752, Former Drum	SS 4	94575205SL	6"	October 6, 1994	Surface Soil
Bldg. 35-752, Former Drum	SS 5	94575206SL	6"	October 6, 1994	Surface Soil
Bldg. 35-752, Former Drum	SS 6	94575207SL	6"	October 6, 1994	Surface Soil
Bldg. 35-752, Former Drum	SS 7	94575208SL	6"	October 6, 1994	Surface Soil
Bldg. 35-752, Former Drum	SS 8	94575209SL	6"	October 6, 1994	Surface Soil
Bldg. 35-752, Former Tank	AP-3786	96575227SL	0	October 3, 1996	Surface Soil
Bldg. 35-752, Periphery Road	LCI5	LCI 5-0	0-1'	May 10, 2001	Surface Soil
Bldg. 35-752, Periphery Road	P1	02B752130SL	0 - 0.5	July 30, 2002	Surface Soil
Bldg. 35-752, Periphery Road	P10	02B752157SL-AVG	0 - 0.5	July 30, 2002	Surface Soil
Bldg. 35-752, Periphery Road	P13	02B752167SL	0 - 0.5	July 30, 2002	Surface Soil
Bldg. 35-752, Periphery Road	P16	02B752176SL	0 - 0.5	July 30, 2002	Surface Soil
Bldg. 35-752, Periphery Road	P19	02B752185SL	0 - 0.5	July 29, 2002	Surface Soil
Bldg. 35-752, Periphery Road	P23	02B752198SL	0 - 0.5	July 30, 2002	Surface Soil
Bldg. 35-752, Periphery Road	P26	02B752207SL	0 - 0.5	July 30, 2002	Surface Soil
Bldg. 35-752, Periphery Road	P26	02B752208SL	0 - 0.5	July 30, 2002	Surface Soil
Bldg. 35-752, Periphery Road	P29	02B752216SL-AVG	0 - 0.5	July 30, 2002	Surface Soil
Bldg. 35-752, Periphery Road	P29	02B752217SL	0 - 0.5	July 30, 2002	Surface Soil
Bldg. 35-752, Periphery Road	P7	02B752148SL	0 - 0.5	July 30, 2002	Surface Soil
Bldg. 35-752, Stockpile Area	S32	02B75265SL	0 - 0.5	July 26, 2002	Surface Soil
Bldg. 35-752, Stockpile Area	S35	02B75271SL	0 - 0.5	July 26, 2002	Surface Soil
Bldg. 35-752, Stockpile Area	S36	02B75273SL	0 - 0.5	July 26, 2002	Surface Soil
Bldg. 35-752, Stockpile Area	S37	02B75275SL	0 - 0.5	July 26, 2002	Surface Soil
Bldg. 35-752, Stockpile Area	S38	02B75277SL	0 - 0.5	July 26, 2002	Surface Soil
Bldg. 35-752, Stockpile Area	S39	02B75279SL	0 - 0.5	July 26, 2002	Surface Soil
Bldg. 35-752, Stockpile Area	S40	02B75281SL	0 - 0.5	July 26, 2002	Surface Soil
Bldg. 35-752, Stockpile Area	S41	02B75283SL-AVG	0 - 0.5	July 26, 2002	Surface Soil
Bldg. 35-752, Transformer Mounting Area	T1	02B75201SL	0 - 0.5	August 1, 2002	Surface Soil
Bldg. 35-752, Transformer Mounting Area	T10	02B75228SL-AVG	0 - 0.5	August 1, 2002	Surface Soil
Bldg. 35-752, Transformer Mounting Area	T10	02B75229SL	0 - 0.5	August 1, 2002	Surface Soil
Bldg. 35-752, Transformer Mounting Area	T11	02B75232SL	0 - 0.5	August 1, 2002	Surface Soil
Bldg. 35-752, Transformer Mounting Area	T13	02B75238SL	0 - 0.5	August 1, 2002	Surface Soil
Bldg. 35-752, Transformer Mounting Area	T15	02B75244SL	0 - 0.5	August 1, 2002	Surface Soil
Bldg. 35-752, Transformer Mounting Area	T16	02B75247SL	0 - 0.5	August 1, 2002	Surface Soil
Bldg. 35-752, Transformer Mounting Area	T17	02B75250SL	0 - 0.5	August 1, 2002	Surface Soil
Bldg. 35-752, Transformer Mounting Area	T19	02B75256SL	0 - 0.5	August 1, 2002	Surface Soil
Bldg. 35-752, Transformer Mounting Area	T2	02B75204SL	0 - 0.5	August 1, 2002	Surface Soil
Bldg. 35-752, Transformer Mounting Area	T3	02B75207SL	0 - 0.5	August 1, 2002	Surface Soil
Bldg. 35-752, Transformer Mounting Area	T4	02B75210SL	0 - 0.5	August 1, 2002	Surface Soil
Bldg. 35-752, Transformer Mounting Area	T5	02B75213SL	0 - 0.5	August 1, 2002	Surface Soil
Bldg. 35-752, Transformer Mounting Area	T6	02B75216SL	0 - 0.5	August 1, 2002	Surface Soil
Bldg. 35-752, Transformer Mounting Area	T7	02B75219SL	0 - 0.5	August 1, 2002	Surface Soil
Bldg. 35-752, Transformer Mounting Area	T8	02B75222SL	0 - 0.5	August 1, 2002	Surface Soil

TABLE A-2
Summary of Samples Used in the Risk Assessment
Building 35-752 Subsurface Soils
Ft. Richardson

Exposure Area	Station ID	Sample ID	Depth Interval	Collection Date	Matrix
Bldg. 35-752, Building 35-752	96-SS01	96575212SL	0.5	September 26, 1996	Subsurface Soil
Bldg. 35-752, Building 35-752	96-SS01	96575219SL	2.5	September 27, 1996	Subsurface Soil
Bldg. 35-752, Building 35-752	96-SS02	96575213SL	0.5	September 26, 1996	Subsurface Soil
Bldg. 35-752, Building 35-752	96-SS02	96575220SL	2.5	September 27, 1996	Subsurface Soil
Bldg. 35-752, Building 35-752	96-SS03	96575214SL	0.5	September 26, 1996	Subsurface Soil
Bldg. 35-752, Building 35-752	96-SS03	96575221SL	2.5	September 27, 1996	Subsurface Soil
Bldg. 35-752, Building 35-752	96-SS04	96575215SL	0.5	September 26, 1996	Subsurface Soil
Bldg. 35-752, Building 35-752	96-SS04	96575222SL	2.5	September 27, 1996	Subsurface Soil
Bldg. 35-752, Building 35-752	96-SS05	96575216SL-AVG	0.5	September 26, 1996	Subsurface Soil
Bldg. 35-752, Building 35-752	96-SS05	96575223SL	2.5	September 27, 1996	Subsurface Soil
Bldg. 35-752, Building 35-752	96-SS06	96575217SL	0.5	September 26, 1996	Subsurface Soil
Bldg. 35-752, Building 35-752	96-SS06	96575224SL	2.5	September 27, 1996	Subsurface Soil
Bldg. 35-752, Building 35-752	AP-2982	90FRUST87 soil	10-11.5'	August 21, 1990	Subsurface Soil
Bldg. 35-752, Building 35-752	AP-2982	90FRUST86 soil	5-6.5'	August 21, 1990	Subsurface Soil
Bldg. 35-752, Building 35-752	AP-2983	90FRUST91 soil	10-11.5'	August 21, 1990	Subsurface Soil
Bldg. 35-752, Building 35-752	AP-2983	90FRUST90 soil	5-5.5'	August 21, 1990	Subsurface Soil
Bldg. 35-752, Building 35-752	AP-2984	90FRUST98 soil	10-11.5'	August 22, 1990	Subsurface Soil
Bldg. 35-752, Building 35-752	AP-2984	90FRUST97 soil	5-6.5'	August 22, 1990	Subsurface Soil
Bldg. 35-752, Building 35-752	AP-2985	90FRUST101 soil	10-11.5'	August 23, 1990	Subsurface Soil
Bldg. 35-752, Building 35-752	AP-2985	90FRUST100 soil	5-6.5'	August 23, 1990	Subsurface Soil
Bldg. 35-752, Building 35-752	AP-2986	90FRUST103 soil	10-11.5'	August 23, 1990	Subsurface Soil
Bldg. 35-752, Building 35-752	AP-2986	90FRUST102 soil	5-6.5'	August 23, 1990	Subsurface Soil
Bldg. 35-752, Building 35-752	AP-2987	90FRUST106 soil	10-11.5'	August 24, 1990	Subsurface Soil
Bldg. 35-752, Building 35-752	AP-2987	90FRUST105 soil	5-6.5'	August 24, 1990	Subsurface Soil
Bldg. 35-752, Building 35-752	AP-3502	94575227SL-AVG	0-4'	November 7, 1994	Subsurface Soil
Bldg. 35-752, Building 35-752	AP-3502	94575229SL	4'-6'	November 7, 1994	Subsurface Soil
Bldg. 35-752, Building 35-752	AP-3502	94575230SL	9'-13'	November 7, 1994	Subsurface Soil
Bldg. 35-752, Building 35-752	AP-3504	94575235SL	0-2'	November 9, 1994	Subsurface Soil
Bldg. 35-752, Building 35-752	AP-3504	94575238SL	10'-14'	November 9, 1994	Subsurface Soil
Bldg. 35-752, Building 35-752	AP-3504	94575236SL-AVG	4'-10'	November 9, 1994	Subsurface Soil
Bldg. 35-752, Burn Pit	AP-4328	02B75288SL	0 - 0.5	July 26, 2002	Subsurface Soil
Bldg. 35-752, Burn Pit	AP-4328	02B75290SL	5 - 5.5	July 26, 2002	Subsurface Soil
Bldg. 35-752, Burn Pit	AP-4329	02B75294SL	2 - 2.5	July 26, 2002	Subsurface Soil
Bldg. 35-752, Burn Pit	AP-4329	02B75296SL	7 - 7.5	July 26, 2002	Subsurface Soil
Bldg. 35-752, Burn Pit	AP-4330	02B75298SL	0 - 0.5	July 29, 2002	Subsurface Soil
Bldg. 35-752, Burn Pit	AP-4330	02B752102SL	10 - 10.5	July 29, 2002	Subsurface Soil
Bldg. 35-752, Burn Pit	AP-4331	02B752104SL	2 - 2.5	July 29, 2002	Subsurface Soil
Bldg. 35-752, Burn Pit	AP-4331	02B752105SL-AVG	5 - 5.5	July 29, 2002	Subsurface Soil
Bldg. 35-752, Burn Pit	AP-4332	02B752113SL	10 - 10.5	July 29, 2002	Subsurface Soil
Bldg. 35-752, Burn Pit	AP-4333	02B752114SL	0 - 0.5	July 29, 2002	Subsurface Soil
Bldg. 35-752, Burn Pit	AP-4333	02B752116SL	5 - 5.5	July 29, 2002	Subsurface Soil
Bldg. 35-752, Burn Pit	AP-4334	02B752123SL	10 - 10.5	July 29, 2002	Subsurface Soil
Bldg. 35-752, Burn Pit	AP-4334	02B752120SL	2 - 2.5	July 29, 2002	Subsurface Soil
Bldg. 35-752, Burn Pit	AP-4335	02B752124SL	0 - 0.5	July 29, 2002	Subsurface Soil
Bldg. 35-752, Burn Pit	AP-4335	02B752127SL-AVG	7 - 7.5	July 29, 2002	Subsurface Soil
Bldg. 35-752, Cooling Pond	AP-3501	94575240SL	5'-7'	November 11, 1994	Subsurface Soil
Bldg. 35-752, Cooling Pond	AP-3503	94575231SL	0-6'	November 8, 1994	Subsurface Soil
Bldg. 35-752, Cooling Pond	AP-3503	94575232SL	6'-8'	November 8, 1994	Subsurface Soil
Bldg. 35-752, Cooling Pond	AP-3503	94575233SL-AVG	8'-12'	November 8, 1994	Subsurface Soil
Bldg. 35-752, Cooling Pond	AP-3787	96575230SL	0	October 3, 1996	Subsurface Soil
Bldg. 35-752, Cooling Pond	AP-3787	96575235SL	10	October 3, 1996	Subsurface Soil
Bldg. 35-752, Cooling Pond	AP-3787	96575231SL-AVG	2.5	October 3, 1996	Subsurface Soil
Bldg. 35-752, Cooling Pond	AP-3787	96575233SL	5	October 3, 1996	Subsurface Soil

TABLE A-2
Summary of Samples Used in the Risk Assessment
Building 35-752 Subsurface Soils
Ft. Richardson

Exposure Area	Station ID	Sample ID	Depth Interval	Collection Date	Matrix
Bldg. 35-752, Cooling Pond	AP-3787	96575234SL	7.5	October 3, 1996	Subsurface Soil
Bldg. 35-752, Cooling Pond	AP-3788	96575236SL-AVG	0	October 3, 1996	Subsurface Soil
Bldg. 35-752, Cooling Pond	AP-3788	96575238SL	2.5	October 3, 1996	Subsurface Soil
Bldg. 35-752, Cooling Pond	AP-3788	96575239SL-AVG	5	October 3, 1996	Subsurface Soil
Bldg. 35-752, Former Drum	AP-3505	94575219SL	0-4'	November 3, 1994	Subsurface Soil
Bldg. 35-752, Former Drum	AP-3505	94575220SL	4'-6'	November 3, 1994	Subsurface Soil
Bldg. 35-752, Former Drum	AP-3505	94575221SL	9'-11'	November 3, 1994	Subsurface Soil
Bldg. 35-752, Former Drum	AP-3506	94575223SL	0-2'	November 3, 1994	Subsurface Soil
Bldg. 35-752, Former Drum	AP-3506	94575224SL	4'-8'	November 3, 1994	Subsurface Soil
Bldg. 35-752, Former Drum	AP-3506	94575225SL	8'-12'	November 3, 1994	Subsurface Soil
Bldg. 35-752, Former Drum	AP-3785	96575226SL	10	October 2, 1996	Subsurface Soil
Bldg. 35-752, Former Drum	AP-3785	96575225SL	5	October 2, 1996	Subsurface Soil
Bldg. 35-752, Former Drum	SS 1	94575218SL	2'	October 10, 1994	Subsurface Soil
Bldg. 35-752, Former Drum	SS 1	94575201SL-AVG	6"	October 6, 1994	Subsurface Soil
Bldg. 35-752, Former Drum	SS 2	94575217SL	2'	October 10, 1994	Subsurface Soil
Bldg. 35-752, Former Drum	SS 2	94575203SL	6"	October 6, 1994	Subsurface Soil
Bldg. 35-752, Former Drum	SS 3	94575216SL	2'	October 10, 1994	Subsurface Soil
Bldg. 35-752, Former Drum	SS 3	94575204SL	6"	October 6, 1994	Subsurface Soil
Bldg. 35-752, Former Drum	SS 4	94575215SL	2'	October 10, 1994	Subsurface Soil
Bldg. 35-752, Former Drum	SS 4	94575205SL	6"	October 6, 1994	Subsurface Soil
Bldg. 35-752, Former Drum	SS 5	94575213SL-AVG	2'	October 10, 1994	Subsurface Soil
Bldg. 35-752, Former Drum	SS 5	94575206SL	6"	October 6, 1994	Subsurface Soil
Bldg. 35-752, Former Drum	SS 6	94575212SL	2'	October 10, 1994	Subsurface Soil
Bldg. 35-752, Former Drum	SS 6	94575207SL	6"	October 6, 1994	Subsurface Soil
Bldg. 35-752, Former Drum	SS 7	94575211SL	2'	October 10, 1994	Subsurface Soil
Bldg. 35-752, Former Drum	SS 7	94575208SL	6"	October 6, 1994	Subsurface Soil
Bldg. 35-752, Former Drum	SS 8	94575210SL	2'	October 6, 1994	Subsurface Soil
Bldg. 35-752, Former Drum	SS 8	94575209SL	6"	October 6, 1994	Subsurface Soil
Bldg. 35-752, Former Tank	AP-3497	94575273SL	0-4'	November 2, 1994	Subsurface Soil
Bldg. 35-752, Former Tank	AP-3497	94575274SL-AVG	4'-10'	November 2, 1994	Subsurface Soil
Bldg. 35-752, Former Tank	AP-3498	94575279SL	0-4'	November 2, 1994	Subsurface Soil
Bldg. 35-752, Former Tank	AP-3498	94575281SL	10'-12'	November 2, 1994	Subsurface Soil
Bldg. 35-752, Former Tank	AP-3498	94575280SL	4'-8'	November 2, 1994	Subsurface Soil
Bldg. 35-752, Former Tank	AP-3499	94575282SL	0-2'	November 2, 1994	Subsurface Soil
Bldg. 35-752, Former Tank	AP-3499	94575283SL	4'-8'	November 2, 1994	Subsurface Soil
Bldg. 35-752, Former Tank	AP-3499	94575284SL	8'-12'	November 2, 1994	Subsurface Soil
Bldg. 35-752, Former Tank	AP-3500	94575286SL-AVG	0-4'	November 3, 1994	Subsurface Soil
Bldg. 35-752, Former Tank	AP-3500	94575288SL	4'-8'	November 3, 1994	Subsurface Soil
Bldg. 35-752, Former Tank	AP-3500	94575289SL	8'-12'	November 3, 1994	Subsurface Soil
Bldg. 35-752, Former Tank	AP-3786	96575227SL	0	October 3, 1996	Subsurface Soil
Bldg. 35-752, Former Tank	AP-3786	96575228SL	5	October 3, 1996	Subsurface Soil
Bldg. 35-752, Periphery Road	LCI1	LCI 1-1	1-2'	May 10, 2001	Subsurface Soil
Bldg. 35-752, Periphery Road	LCI2	LCI 2-1	1-2'	May 10, 2001	Subsurface Soil
Bldg. 35-752, Periphery Road	LCI2	LCI 2-2	2-3'	May 10, 2001	Subsurface Soil
Bldg. 35-752, Periphery Road	LCI2	LCI 2-3-AVG	3-4'	May 10, 2001	Subsurface Soil
Bldg. 35-752, Periphery Road	LCI3	LCI 3-1	1-2'	May 10, 2001	Subsurface Soil
Bldg. 35-752, Periphery Road	LCI4	LCI 4-1	1-2'	May 10, 2001	Subsurface Soil
Bldg. 35-752, Periphery Road	LCI5	LCI 5-0	0-1'	May 10, 2001	Subsurface Soil
Bldg. 35-752, Periphery Road	LCI5	LCI 5-2	2-3'	May 10, 2001	Subsurface Soil
Bldg. 35-752, Periphery Road	LCI8	LCI 8-1	0.5-1'	May 10, 2001	Subsurface Soil
Bldg. 35-752, Periphery Road	P1	02B752130SL	0 - 0.5	July 30, 2002	Subsurface Soil
Bldg. 35-752, Periphery Road	P1	02B752132SL	1.5 - 2	July 30, 2002	Subsurface Soil
Bldg. 35-752, Periphery Road	P10	02B752157SL-AVG	0 - 0.5	July 30, 2002	Subsurface Soil

TABLE A-2
Summary of Samples Used in the Risk Assessment
Building 35-752 Subsurface Soils
Ft. Richardson

Exposure Area	Station ID	Sample ID	Depth Interval	Collection Date	Matrix
Bldg. 35-752, Periphery Road	P11	02B752162SL	1 - 1.5	July 30, 2002	Subsurface Soil
Bldg. 35-752, Periphery Road	P12	02B752166SL	1.5 - 2	July 29, 2002	Subsurface Soil
Bldg. 35-752, Periphery Road	P13	02B752167SL	0 - 0.5	July 30, 2002	Subsurface Soil
Bldg. 35-752, Periphery Road	P14	02B752171SL	1 - 1.5	July 30, 2002	Subsurface Soil
Bldg. 35-752, Periphery Road	P15	02B752175SL	1.5 - 2	July 30, 2002	Subsurface Soil
Bldg. 35-752, Periphery Road	P16	02B752176SL	0 - 0.5	July 30, 2002	Subsurface Soil
Bldg. 35-752, Periphery Road	P16	02B752177SL-AVG	1 - 1.5	July 30, 2002	Subsurface Soil
Bldg. 35-752, Periphery Road	P16	02B752178SL	1.5 - 2	July 30, 2002	Subsurface Soil
Bldg. 35-752, Periphery Road	P17	02B752180SL	1 - 1.5	July 30, 2002	Subsurface Soil
Bldg. 35-752, Periphery Road	P18	02B752184SL	1.5 - 2	July 30, 2002	Subsurface Soil
Bldg. 35-752, Periphery Road	P19	02B752185SL	0 - 0.5	July 29, 2002	Subsurface Soil
Bldg. 35-752, Periphery Road	P2	02B752134SL	1 - 1.5	July 30, 2002	Subsurface Soil
Bldg. 35-752, Periphery Road	P20	02B752189SL-AVG	1 - 1.5	July 29, 2002	Subsurface Soil
Bldg. 35-752, Periphery Road	P21	02B752193SL	1 - 1.5	July 30, 2002	Subsurface Soil
Bldg. 35-752, Periphery Road	P22	02B752197SL	1.5 - 2	July 30, 2002	Subsurface Soil
Bldg. 35-752, Periphery Road	P23	02B752198SL	0 - 0.5	July 30, 2002	Subsurface Soil
Bldg. 35-752, Periphery Road	P24	02B752202SL	1 - 1.5	July 30, 2002	Subsurface Soil
Bldg. 35-752, Periphery Road	P25	02B752206SL	1.5 - 2	July 30, 2002	Subsurface Soil
Bldg. 35-752, Periphery Road	P26	02B752207SL	0 - 0.5	July 30, 2002	Subsurface Soil
Bldg. 35-752, Periphery Road	P26	02B752208SL	0 - 0.5	July 30, 2002	Subsurface Soil
Bldg. 35-752, Periphery Road	P27	02B752211SL	1 - 1.5	July 30, 2002	Subsurface Soil
Bldg. 35-752, Periphery Road	P28	02B752215SL	1.5 - 2	July 30, 2002	Subsurface Soil
Bldg. 35-752, Periphery Road	P29	02B752216SL-AVG	0 - 0.5	July 30, 2002	Subsurface Soil
Bldg. 35-752, Periphery Road	P29	02B752217SL	0 - 0.5	July 30, 2002	Subsurface Soil
Bldg. 35-752, Periphery Road	P30	02B752220SL	1 - 1.5	July 30, 2002	Subsurface Soil
Bldg. 35-752, Periphery Road	P30	02B752221SL	1 - 1.5	July 30, 2002	Subsurface Soil
Bldg. 35-752, Periphery Road	P5	02B752143SL	1 - 1.5	July 30, 2002	Subsurface Soil
Bldg. 35-752, Periphery Road	P6	02B752147SL	1.5 - 2	July 30, 2002	Subsurface Soil
Bldg. 35-752, Periphery Road	P7	02B752148SL	0 - 0.5	July 30, 2002	Subsurface Soil
Bldg. 35-752, Periphery Road	P8	02B752152SL	1 - 1.5	July 30, 2002	Subsurface Soil
Bldg. 35-752, Periphery Road	P9	02B752156SL	1.5 - 2	July 30, 2002	Subsurface Soil
Bldg. 35-752, Stockpile Area	S31	02B75264SL	1 - 1.5	July 26, 2002	Subsurface Soil
Bldg. 35-752, Stockpile Area	S32	02B75265SL	0 - 0.5	July 26, 2002	Subsurface Soil
Bldg. 35-752, Stockpile Area	S34	02B75270SL	1 - 1.5	July 26, 2002	Subsurface Soil
Bldg. 35-752, Stockpile Area	S35	02B75271SL	0 - 0.5	July 26, 2002	Subsurface Soil
Bldg. 35-752, Stockpile Area	S36	02B75273SL	0 - 0.5	July 26, 2002	Subsurface Soil
Bldg. 35-752, Stockpile Area	S37	02B75275SL	0 - 0.5	July 26, 2002	Subsurface Soil
Bldg. 35-752, Stockpile Area	S37	02B75276SL	1 - 1.5	July 26, 2002	Subsurface Soil
Bldg. 35-752, Stockpile Area	S38	02B75277SL	0 - 0.5	July 26, 2002	Subsurface Soil
Bldg. 35-752, Stockpile Area	S39	02B75279SL	0 - 0.5	July 26, 2002	Subsurface Soil
Bldg. 35-752, Stockpile Area	S40	02B75281SL	0 - 0.5	July 26, 2002	Subsurface Soil
Bldg. 35-752, Stockpile Area	S41	02B75283SL-AVG	0 - 0.5	July 26, 2002	Subsurface Soil
Bldg. 35-752, Transformer Mounting	T1	02B75201SL	0 - 0.5	August 1, 2002	Subsurface Soil
Bldg. 35-752, Transformer Mounting	T10	02B75228SL-AVG	0 - 0.5	August 1, 2002	Subsurface Soil
Bldg. 35-752, Transformer Mounting	T10	02B75229SL	0 - 0.5	August 1, 2002	Subsurface Soil
Bldg. 35-752, Transformer Mounting	T11	02B75232SL	0 - 0.5	August 1, 2002	Subsurface Soil
Bldg. 35-752, Transformer Mounting	T11	02B752233	0.5 - 1	October 15, 2002	Subsurface Soil
Bldg. 35-752, Transformer Mounting	T13	02B75238SL	0 - 0.5	August 1, 2002	Subsurface Soil
Bldg. 35-752, Transformer Mounting	T15	02B75244SL	0 - 0.5	August 1, 2002	Subsurface Soil
Bldg. 35-752, Transformer Mounting	T15	02B752246SL	0.5 - 1	October 15, 2002	Subsurface Soil
Bldg. 35-752, Transformer Mounting	T16	02B75247SL	0 - 0.5	August 1, 2002	Subsurface Soil
Bldg. 35-752, Transformer Mounting	T17	02B75250SL	0 - 0.5	August 1, 2002	Subsurface Soil
Bldg. 35-752, Transformer Mounting	T19	02B75256SL	0 - 0.5	August 1, 2002	Subsurface Soil

TABLE A-2
Summary of Samples Used in the Risk Assessment
Building 35-752 Subsurface Soils
Ft. Richardson

Exposure Area	Station ID	Sample ID	Depth Interval	Collection Date	Matrix
Bldg. 35-752, Transformer Mounting	T2	02B75204SL	0 - 0.5	August 1, 2002	Subsurface Soil
Bldg. 35-752, Transformer Mounting	T2	02B752205SL	0.5 - 1	October 15, 2002	Subsurface Soil
Bldg. 35-752, Transformer Mounting	T3	02B75207SL	0 - 0.5	August 1, 2002	Subsurface Soil
Bldg. 35-752, Transformer Mounting	T4	02B75210SL	0 - 0.5	August 1, 2002	Subsurface Soil
Bldg. 35-752, Transformer Mounting	T5	02B75213SL	0 - 0.5	August 1, 2002	Subsurface Soil
Bldg. 35-752, Transformer Mounting	T5	02B752214SL	0.5 - 1	October 15, 2002	Subsurface Soil
Bldg. 35-752, Transformer Mounting	T6	02B75216SL	0 - 0.5	August 1, 2002	Subsurface Soil
Bldg. 35-752, Transformer Mounting	T6	02B752218SL	0.5 - 1	October 15, 2002	Subsurface Soil
Bldg. 35-752, Transformer Mounting	T7	02B75219SL	0 - 0.5	August 1, 2002	Subsurface Soil
Bldg. 35-752, Transformer Mounting	T8	02B75222SL	0 - 0.5	August 1, 2002	Subsurface Soil

TABLE A-3
Summary of Samples Used in the Risk Assessment
Building 35-752 Groundwater
Ft. Richardson

Exposure Area	Station ID	Sample ID	Depth Interval	Collection Date	Matrix
Groundwater	AP-2982	02B75202WA	--	August 15, 2002	Groundwater
Groundwater	AP-2982	03FROEWA08	--	June 9, 2003	Groundwater
Groundwater	AP-2982	03FROEWA21-AVG	--	September 21, 2003	Groundwater
Groundwater	AP-2983	02B75203WA	--	August 16, 2002	Groundwater
Groundwater	AP-2983	03FROEWA07	--	June 9, 2003	Groundwater
Groundwater	AP-2983	03FROEWA23	--	September 21, 2003	Groundwater
Groundwater	AP-2987	02B75206WA	--	August 16, 2002	Groundwater
Groundwater	AP-3231	02B75207WA	--	August 16, 2002	Groundwater
Groundwater	AP-3232	02B75208WA-AVG	--	August 19, 2002	Groundwater
Groundwater	AP-3458	02B75204WA	--	August 16, 2002	Groundwater
Groundwater	AP-3458	03AVMA08WA	--	July 21, 2003	Groundwater
Groundwater	AP-3503	02B75201WA	--	August 15, 2002	Groundwater
Groundwater	AP-3503	03FROEWA04	--	June 9, 2003	Groundwater
Groundwater	AP-3503	03FROEWA20	--	September 21, 2003	Groundwater

TABLE A-4

Summary of Samples Used in the Risk Assessment

AVMA Surface Soils

Ft. Richardson

Exposure Area	Station ID	Sample ID	Depth Interval	Collection Date	Matrix
AVMA Surface Soils	AP-4336	02AVMA25SL	0	August 1, 2002	Surface Soil
AVMA Surface Soils	AVMAT1	02AVMA01SL	0.5	July 22, 2002	Surface Soil
AVMA Surface Soils	AVMAT2	02AVMA06SL	0.5	July 22, 2002	Surface Soil
AVMA Surface Soils	AVMAT3	02AVMA13SL	0.5	July 23, 2002	Surface Soil
AVMA Surface Soils	AVMAT4	02AVMA18SL	0.5	July 24, 2002	Surface Soil
AVMA Surface Soils	AVMAT6	OUE02T6LS08	0.5	August 20, 2002	Surface Soil
AVMA Surface Soils	AVMAT8	OUE02T8LS17-AVG	0.5	August 21, 2002	Surface Soil

TABLE A-5
Summary of Samples Used in the Risk Assessment
AVMA Subsurface Soils
Ft. Richardson

Exposure Area	Station ID	Sample ID	Depth Interval	Collection Date	Matrix
AVMA Subsurface Soils	AP-4146	00FRAW10SL	4.5-6	January 23, 2001	Subsurface Soil
AVMA Subsurface Soils	AP-4151	00FRAW15SL-AVG	4.5-6	January 25, 2001	Subsurface Soil
AVMA Subsurface Soils	AP-4153	00FRAW19SL	9.5-11	January 25, 2001	Subsurface Soil
AVMA Subsurface Soils	AP-4336	02AVMA25SL	0	August 1, 2002	Subsurface Soil
AVMA Subsurface Soils	AP-4411	03AVMA03SL	5 - 7.5	May 12, 2003	Subsurface Soil
AVMA Subsurface Soils	AVMAT1	02AVMA01SL	0.5	July 22, 2002	Subsurface Soil
AVMA Subsurface Soils	AVMAT1	02AVMA02SL	3.5	July 22, 2002	Subsurface Soil
AVMA Subsurface Soils	AVMAT1	02AVMA03SL	8	July 22, 2002	Subsurface Soil
AVMA Subsurface Soils	AVMAT2	02AVMA06SL	0.5	July 22, 2002	Subsurface Soil
AVMA Subsurface Soils	AVMAT2	02AVMA07SL	4	July 22, 2002	Subsurface Soil
AVMA Subsurface Soils	AVMAT2	02AVMA11SL	8	July 23, 2002	Subsurface Soil
AVMA Subsurface Soils	AVMAT3	02AVMA13SL	0.5	July 23, 2002	Subsurface Soil
AVMA Subsurface Soils	AVMAT3	02AVMA14SL	4	July 23, 2002	Subsurface Soil
AVMA Subsurface Soils	AVMAT4	02AVMA18SL	0.5	July 24, 2002	Subsurface Soil
AVMA Subsurface Soils	AVMAT4	02AVMA23SL	3	July 24, 2002	Subsurface Soil
AVMA Subsurface Soils	AVMAT4	02AVMA19SL-AVG	4	July 24, 2002	Subsurface Soil
AVMA Subsurface Soils	AVMAT4	02AVMA24SL	4.5	July 24, 2002	Subsurface Soil
AVMA Subsurface Soils	AVMAT6	OUE02T6LS08	0.5	August 20, 2002	Subsurface Soil
AVMA Subsurface Soils	AVMAT6	OUE02T6LS09	5	August 20, 2002	Subsurface Soil
AVMA Subsurface Soils	AVMAT6	OUE02T6LS11-AVG	5	August 20, 2002	Subsurface Soil
AVMA Subsurface Soils	AVMAT7	OUE02T7LS13	10	August 20, 2002	Subsurface Soil
AVMA Subsurface Soils	AVMAT7	OUE02T7LS12	5	August 20, 2002	Subsurface Soil
AVMA Subsurface Soils	AVMAT8	OUE02T8LS17-AVG	0.5	August 21, 2002	Subsurface Soil
AVMA Subsurface Soils	AVMAT9	OUE02T8LS23	1	August 22, 2002	Subsurface Soil
AVMA Subsurface Soils	AVMAT9	OUE02T8LS25	5	August 21, 2002	Subsurface Soil

TABLE A-6
Summary of Samples Used in the Risk Assessment
AVMA Groundwater
Ft. Richardson

Exposure Area	Station ID	Sample ID	Depth Interval	Collection Date	Matrix
Groundwater	AP-2980	02FROEWA24	--	August 29, 2002	Groundwater
Groundwater	AP-3441	02FROEWA15	--	August 28, 2002	Groundwater
Groundwater	AP-3467	02FROEWA19-AVG	--	August 29, 2002	Groundwater
Groundwater	AP-3467	03FROEWA01	--	June 6, 2003	Groundwater
Groundwater	AP-3468	02AVMA13WA	--	August 23, 2002	Groundwater
Groundwater	AP-3468	03FROEWA03	--	June 6, 2003	Groundwater
Groundwater	AP-3469	02FROEWA18	--	August 28, 2002	Groundwater
Groundwater	AP-3483	02FROEWA17	--	August 28, 2002	Groundwater
Groundwater	AP-3532	02AVMA02WA	--	August 19, 2002	Groundwater
Groundwater	AP-3532	03AVMA11WA	--	July 23, 2003	Groundwater
Groundwater	AP-3534	02AVMA01WA	--	August 19, 2002	Groundwater
Groundwater	AP-3534	03FROEWA02	--	June 6, 2003	Groundwater
Groundwater	AP-3535	03FROEWA13	--	September 19, 2003	Groundwater
Groundwater	AP-3650	02AVMA12WA	--	August 23, 2002	Groundwater
Groundwater	AP-3772	02FROEWA13	--	August 28, 2002	Groundwater
Groundwater	AP-3773	03AVMA02WA	--	June 11, 2003	Groundwater
Groundwater	AP-3773	03FROEWA19	--	September 20, 2003	Groundwater
Groundwater	AP-3774	03AVMA15WA	--	July 24, 2003	Groundwater
Groundwater	AP-3774	03FROEWA17	--	September 20, 2003	Groundwater
Groundwater	AP-3775	02FROEWA14	--	August 28, 2002	Groundwater
Groundwater	AP-3776	02AVMA08WA	--	August 21, 2002	Groundwater
Groundwater	AP-3776	03AVMA09WA-AVG	--	July 22, 2003	Groundwater
Groundwater	AP-3789	02AVMA11WA	--	August 23, 2002	Groundwater
Groundwater	AP-3790	02FROEWA23	--	August 29, 2002	Groundwater
Groundwater	AP-3790	03AVMA12WA	--	July 23, 2003	Groundwater
Groundwater	AP-3870	03AVMA16WA	--	July 24, 2003	Groundwater
Groundwater	AP-3870	03FROEWA18	--	September 20, 2003	Groundwater
Groundwater	AP-3871	02BAVMA06WA	--	August 20, 2002	Groundwater
Groundwater	AP-3871	03AVMA14WA	--	July 23, 2003	Groundwater
Groundwater	AP-3872	02AVMA10WA	--	August 23, 2002	Groundwater
Groundwater	AP-3872	03AVMA13WA	--	July 23, 2003	Groundwater
Groundwater	AP-3893	02AVMA19WA	--	August 27, 2002	Groundwater
Groundwater	AP-3894	02AVMA17WA-AVG	--	August 27, 2002	Groundwater
Groundwater	AP-3895	02AVMA14WA-AVG	--	August 26, 2002	Groundwater
Groundwater	AP-3896	02AVMA16WA	--	August 27, 2002	Groundwater
Groundwater	AP-4154	02BAVMA04WA	--	August 20, 2002	Groundwater
Groundwater	AP-4155	02BAVMA05WA	--	August 20, 2002	Groundwater
Groundwater	AP-4336	02AVMA25WA	--	October 24, 2002	Groundwater
Groundwater	AP-4336	03AVMA17WA	--	July 24, 2003	Groundwater
Groundwater	AP-4337	02AVMA28WA	--	October 25, 2002	Groundwater
Groundwater	AP-4339	02AVMA20WA	--	September 24, 2002	Groundwater
Groundwater	AP-4341	02AVMA24WA	--	October 24, 2002	Groundwater
Groundwater	AP-4342	02AVMA22WA-AVG	--	October 23, 2002	Groundwater
Groundwater	AP-4342	03AVMA01WA-AVG	--	June 10, 2003	Groundwater
Groundwater	AP-4343	03FROEWA15	--	September 20, 2003	Groundwater
Groundwater	AP-4411	03AVMA04WA	--	June 11, 2003	Groundwater
Groundwater	AP-4411	03FROEWA14	--	September 20, 2003	Groundwater
Groundwater	AP-4412	03AVMA03WA	107.1	June 11, 2003	Groundwater
Groundwater	AP-4413	03AVMA05WA	--	June 11, 2003	Groundwater
Groundwater	AP-4413	03FROEWA16	--	September 20, 2003	Groundwater
Groundwater	AP-4414	03AVMA20WA	145	August 20, 2003	Groundwater
Groundwater	AP-4415	03AVMA06WA	81.87	June 12, 2003	Groundwater
Groundwater	AP-4416	03AVMA18WA	122	August 20, 2003	Groundwater

TABLE A-7
Summary Statistics for Constituents Detected in All Surface Soil
Building 35-752 Surface Soil
Ft. Richardson

Chemical Class	Chemical Name	Units	Number of Samples Analyzed	Number of Detects	Frequency of Detects	Minimum MDL	Maximum MDL	Minimum Detected Result	Maximum Detected Result	Average Concentration	95% UCL Normal	Bootstrap-t	95% UCL Lognormal	Exposure Point Concentration	EPC Basis	Comment
DIOXI	1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	mg/Kg	13	11	85%	--	--	5.40E-07	1.66E-04	3.83E-05	6.47E-05	8.59E-05	--	8.59E-05	Bootstrap-t	Surface Soil / Sediment
DIOXI	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN	mg/Kg	13	12	92%	--	--	5.45E-07	5.18E-04	9.09E-05	1.67E-04	3.11E-04	--	3.11E-04	Bootstrap-t	Surface Soil / Sediment
DIOXI	1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	mg/Kg	13	10	77%	--	--	8.20E-07	2.37E-05	7.47E-06	1.16E-05	1.28E-05	--	1.28E-05	Bootstrap-t	Surface Soil / Sediment
DIOXI	1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	mg/Kg	13	11	85%	--	--	3.70E-07	5.81E-05	1.35E-05	2.26E-05	2.76E-05	--	2.76E-05	Bootstrap-t	Surface Soil / Sediment
DIOXI	1,2,3,4,7,8-HEXACHLORODIBENZO-p-DIOXIN	mg/Kg	13	4	31%	--	--	4.60E-07	2.60E-06	8.32E-07	1.20E-06	2.10E-06	--	2.10E-06	Bootstrap-t	Surface Soil / Sediment
DIOXI	1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	mg/Kg	13	9	69%	--	--	2.60E-07	6.80E-06	2.13E-06	3.27E-06	3.86E-06	--	3.86E-06	Bootstrap-t	Surface Soil / Sediment
DIOXI	1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	mg/Kg	13	7	54%	--	--	3.10E-07	1.17E-05	2.60E-06	4.25E-06	7.05E-06	--	7.05E-06	Bootstrap-t	Surface Soil / Sediment
DIOXI	1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	mg/Kg	13	6	46%	--	--	6.85E-07	6.20E-06	1.82E-06	2.70E-06	3.63E-06	--	3.63E-06	Bootstrap-t	Surface Soil / Sediment
DIOXI	1,2,3,7,8-PENTACHLORODIBENZOFURAN	mg/Kg	13	1	8%	--	--	4.65E-07	8.32E-05	6.83E-06	1.82E-05	5.06E-02	--	8.32E-05	MAXDET	Surface Soil / Sediment
DIOXI	1,2,3,7,8-PENTACHLORODIBENZO-p-DIOXIN	mg/Kg	13	1	8%	--	--	2.40E-07	6.40E-07	2.74E-07	3.28E-07	1.78E-06	--	6.40E-07	MAXDET	Surface Soil / Sediment
DIOXI	2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	mg/Kg	13	7	54%	--	--	4.55E-07	4.70E-06	2.22E-06	2.93E-06	3.14E-06	--	3.14E-06	Bootstrap-t	Surface Soil / Sediment
DIOXI	2,3,4,7,8-PENTACHLORODIBENZOFURAN	mg/Kg	13	6	46%	--	--	4.25E-07	4.90E-06	1.61E-06	2.47E-06	2.77E-06	--	2.77E-06	Bootstrap-t	Surface Soil / Sediment
DIOXI	2,3,7,8-TETRACHLORODIBENZOFURAN	mg/Kg	13	8	62%	--	--	2.50E-07	5.20E-06	1.47E-06	2.35E-06	3.35E-06	--	3.35E-06	Bootstrap-t	Surface Soil / Sediment
DIOXI	2,3,7,8-TETRACHLORODIBENZO-p-DIOXIN	mg/Kg	13	1	8%	--	--	2.60E-07	3.50E-07	3.41E-07	3.53E-07	3.49E-07	--	3.49E-07	Bootstrap-t	Surface Soil / Sediment
DIOXI	HEPTACHLORINATED DIBENZOFURANS, (TOTAL)	mg/Kg	13	11	85%	--	--	8.35E-07	8.67E-04	1.46E-04	2.70E-04	5.36E-04	--	5.36E-04	Bootstrap-t	Surface Soil / Sediment
DIOXI	HEPTACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	mg/Kg	13	12	92%	--	--	5.45E-07	8.20E-04	1.87E-04	3.17E-04	3.90E-04	--	3.90E-04	Bootstrap-t	Surface Soil / Sediment
DIOXI	HEXACHLORINATED DIBENZOFURANS, (TOTAL)	mg/Kg	13	11	85%	--	--	1.90E-07	3.78E-04	9.56E-05	1.62E-04	2.41E-04	--	2.41E-04	Bootstrap-t	Surface Soil / Sediment
DIOXI	HEXACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	mg/Kg	13	10	77%	--	--	4.60E-07	5.33E-05	1.35E-05	2.27E-05	2.71E-05	--	2.71E-05	Bootstrap-t	Surface Soil / Sediment
DIOXI	OCTACHLORODIBENZOFURAN	mg/Kg	13	12	92%	--	--	5.90E-07	7.87E-04	1.41E-04	2.57E-04	4.74E-04	--	4.74E-04	Bootstrap-t	Surface Soil / Sediment
DIOXI	OCTACHLORODIBENZO-p-DIOXIN	mg/Kg	13	12	92%	--	--	1.30E-06	4.49E-03	7.38E-04	1.41E-03	3.39E-03	--	3.39E-03	Bootstrap-t	Surface Soil / Sediment
DIOXI	PENTACHLORINATED DIBENZOFURANS, (TOTAL)	mg/Kg	13	11	85%	--	--	1.10E-07	2.10E-04	7.05E-05	1.07E-04	1.16E-04	--	1.16E-04	Bootstrap-t	Surface Soil / Sediment
DIOXI	PENTACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	mg/Kg	13	7	54%	--	--	2.40E-07	8.60E-06	1.46E-06	2.62E-06	5.89E-06	--	5.89E-06	Bootstrap-t	Surface Soil / Sediment
DIOXI	TETRACHLORINATED DIBENZOFURANS, (TOTAL)	mg/Kg	13	10	77%	--	--	8.00E-08	1.28E-04	3.93E-05	6.03E-05	6.60E-05	--	6.60E-05	Bootstrap-t	Surface Soil / Sediment
DIOXI	TETRACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	mg/Kg	13	9	69%	--	--	3.45E-07	5.60E-06	1.45E-06	2.38E-06	4.43E-06	--	4.43E-06	Bootstrap-t	Surface Soil / Sediment
DIOXI	Total TCDD-Mammal	mg/Kg	12	12	100%	--	--	1.20E-08	1.68E-05	5.16E-06	8.35E-06	9.32E-06	--	9.32E-06	Bootstrap-t	Surface Soil / Sediment
METAL	ALUMINUM	mg/Kg	8	8	100%	--	--	8.62E+03	1.87E+04	1.49E+04	1.71E+04	1.67E+04	--	1.71E+04	Normal	Surface Soil / Sediment
METAL	ARSENIC	mg/Kg	21	21	100%	--	--	3.00E+00	8.00E+00	5.33E+00	5.94E+00	5.96E+00	--	5.94E+00	Normal	Surface Soil / Sediment
METAL	BARIUM	mg/Kg	21	21	100%	--	--	3.80E+01	2.20E+02	8.75E+01	1.02E+02	1.10E+02	--	1.10E+02	Bootstrap-t	Surface Soil / Sediment
METAL	CADMIUM	mg/Kg	21	3	14%	--	--	2.50E-01	2.00E+00	4.88E-01	6.35E-01	8.16E-01	--	8.16E-01	Bootstrap-t	Surface Soil / Sediment
METAL	CALCIUM	mg/Kg	8	8	100%	--	--	3.15E+03	7.22E+03	4.56E+03	5.46E+03	6.00E+03	--	5.46E+03	Normal	Surface Soil / Sediment
METAL	CHROMIUM	mg/Kg	21	21	100%	--	--	2.30E+01	6.40E+01	3.51E+01	3.86E+01	4.01E+01	--	4.01E+01	Bootstrap-t	Surface Soil / Sediment
METAL	COBALT	mg/Kg	8	8	100%	--	--	7.00E+00	1.30E+01	1.06E+01	1.19E+01	1.17E+01	--	1.19E+01	Normal	Surface Soil / Sediment
METAL	COPPER	mg/Kg	8	8	100%	--	--	2.00E+01	3.40E+01	2.76E+01	3.10E+01	3.10E+01	--	3.10E+01	Normal	Surface Soil / Sediment
METAL	IRON	mg/Kg	8	8	100%	--	--	1.85E+04	3.09E+04	2.50E+04	2.78E+04	2.77E+04	--	2.78E+04	Normal	Surface Soil / Sediment
METAL	LEAD	mg/Kg	21	20	95%	--	--	2.00E+00	2.00E+02	3.65E+01	5.43E+01	7.58E+01	--	7.58E+01	Bootstrap-t	Surface Soil / Sediment
METAL	MAGNESIUM	mg/Kg	8	8	100%	--	--	5.93E+03	1.03E+04	7.57E+03	8.50E+03	8.80E+03	--	8.50E+03	Normal	Surface Soil / Sediment
METAL	MANGANESE	mg/Kg	8	8	100%	--	--	3.83E+02	6.69E+02	5.18E+02	5.83E+02	6.11E+02	--	5.83E+02	Normal	Surface Soil / Sediment
METAL	MERCURY	mg/Kg	21	10	48%	--	--	2.50E-02	3.00E-01	1.01E-01	1.22E-01	1.39E-01	--	1.39E-01	Bootstrap-t	Surface Soil / Sediment
METAL	NICKEL	mg/Kg	9	9	100%	--	--	2.30E+01	4.90E+01	3.37E+01	3.85E+01	3.98E+01	--	3.85E+01	Normal	Surface Soil / Sediment
METAL	POTASSIUM	mg/Kg	8	6	75%	--	--	2.00E+02	6.10E+02	4.42E+02	5.49E+02	5.28E+02	--	5.49E+02	Normal	Surface Soil / Sediment
METAL	SILVER	mg/Kg	21	1	5%	--	--	2.00E-01	1.00E+00	5.62E-01	7.12E-01	7.14E-01	--	7.14E-01	Bootstrap-t	Surface Soil / Sediment
METAL	SODIUM	mg/Kg	8	8	100%	--	--	6.50E+01	1.71E+02	1.17E+02	1.37E+02	1.40E+02	--	1.37E+02	Normal	Surface Soil / Sediment
METAL	VANADIUM	mg/Kg	8	8	100%	--	--	2.80E+01	6.00E+01	4.55E+01	5.18E+01	5.11E+01	--	5.18E+01	Normal	Surface Soil / Sediment
METAL	ZINC	mg/Kg	8	8	100%	--	--	4.70E+01	8.60E+01	6.29E+01	7.14E+01	7.27E+01	--	7.14E+01	Normal	Surface Soil / Sediment
PEST/PCB	ALDRIN	mg/Kg	28	6	21%	--	--	2.00E-04	5.00E-03	1.93E-03	2.61E-03	2.68E-03	--	2.68E-03	Bootstrap-t	Surface Soil / Sediment
PEST/PCB	BETA BHC	mg/Kg	28	1	4%	--	--	1.00E-03	1.50E-02	5.41E-03	7.42E-03	7.78E-03	--	7.78E-03	Bootstrap-t	Surface Soil / Sediment
PEST/PCB	DIELDRIN	mg/Kg	28	16	57%	--	--	1.50E-04	5.30E-02	6.89E-03	1.00E-02	1.41E-02	--	1.41E-02	Bootstrap-t	Surface Soil / Sediment
PEST/PCB	ENDRIN	mg/Kg	28	1	4%	--	--	4.00E-04	3.40E-02	3.76E-03	6.21E-03	1.18E-02	--	1.18E-02	Bootstrap-t	Surface Soil / Sediment
PEST/PCB	ENDRIN ALDEHYDE	mg/Kg	28	1	4%	--	--	2.50E-04	1.50E-01	8.10E-03	1.72E-02	6.17E-02	--	6.17E-02	Bootstrap-t	Surface Soil / Sediment
PEST/PCB	p,p'-DDD	mg/Kg	28	13	46%	--	--	2.00E-04	7.40E-01	9.61E-02	1.53E-01	1.87E-01	--	1.87E-01	Bootstrap-t	Surface Soil / Sediment
PEST/PCB	p,p'-DDE	mg/Kg	28	20	71%	--	--	4.00E-04	4.00E-02	1.00E-02	1.34E-02	1.47E-02	--	1.47E-02	Bootstrap-t	Surface Soil / Sediment
PEST/PCB	p,p'-DDT	mg/Kg	27	12	44%	--	--	2.00E-04	3.09E-01	5.87E-02	8.81E-02	1.00E-01	--	1.00E-01	Bootstrap-t	Surface Soil / Sediment
PEST/PCB	PCB-1260 (Aroclor 1260)	mg/Kg	64	60	94%	--	--	1.30E-02	9.99E+01	2.96E+00	5.60E+00	1.51E+01	4.50E+00	4.50E+00	Lognormal	Surface Soil / Sediment
SVOC	2-METHYLNAPHTHALENE	mg/Kg	32	1	3%	--	--	2.25E-02	2.50E-01	7.32E-02	9.22E-02	9.46E-02	1.05E-01	9.46E-02	Bootstrap-t	Surface Soil / Sediment
SVOC	ACENAPHTHENE	mg/Kg	32	1	3%	--	--	2.00E-02	2.50E-01	7.28E-02	9.19E-02	9.46E-02	1.06E-01	9.46E-02	Bootstrap-t	Surface Soil / Sediment
SVOC	ACENAPHTHYLENE	mg/Kg	32	1	3%	--	--	1.15E-02	2.50E-01	7.22E-02	9.14E-02	9.40E-02	1.08E-01	9.40E-02	Bootstrap-t	Surface Soil / Sediment
SVOC	ANTHRACENE	mg/Kg	32	3	9%	--	--	1.80E-02	1.20E+00	1.09E-01	1.72E-01	2.78E-01	1.60E-01	2.78E-01	Bootstrap-t	Surface Soil / Sediment
SVOC	BENZO(a)ANTHRACENE	mg/Kg	32	9	28%	--	--	1.80E-02	1.00E+00	1.31E-01	1.90E-01	2.67E-01	2.29E-01	2.67E-01	Bootstrap-t	Surface Soil / Sediment
SVOC	BENZO(a)PYRENE	mg/Kg	32	10	31%	--	--	1.50E-02	7.00E-01	1.09E-01	1.49E-01	1.73E-01	1.97E-01	1.73E-01	Bootstrap-t	Surface Soil / Sediment

TABLE A-7
Summary Statistics for Constituents Detected in All Surface Soil
Building 35-752 Surface Soil
Ft. Richardson

Chemical Class	Chemical Name	Units	Number of Samples Analyzed	Number of Detects	Frequency of Detects	Minimum MDL	Maximum MDL	Minimum Detected Result	Maximum Detected Result	Average Concentration	95% UCL Normal	Bootstrap-t	95% UCL Lognormal	Exposure Point Concentration	EPC Basis	Comment
SVOC	BENZO(b)FLUORANTHENE	mg/Kg	32	11	34%	--	--	1.30E-02	1.40E+00	1.74E-01	2.56E-01	3.59E-01	3.72E-01	3.59E-01	Bootstrap-t	Surface Soil / Sediment
SVOC	BENZO(g,h,i)PERYLENE	mg/Kg	32	3	9%	--	--	1.95E-02	3.00E-01	8.29E-02	1.06E-01	1.10E-01	1.26E-01	1.10E-01	Bootstrap-t	Surface Soil / Sediment
SVOC	BENZO(k)FLUORANTHENE	mg/Kg	32	11	34%	--	--	1.70E-02	1.20E+00	1.54E-01	2.25E-01	3.17E-01	2.92E-01	3.17E-01	Bootstrap-t	Surface Soil / Sediment
SVOC	BENZYL BUTYL PHTHALATE	mg/Kg	31	1	3%	--	--	1.50E-02	2.00E-01	6.51E-02	8.39E-02	8.67E-02	9.77E-02	8.67E-02	Bootstrap-t	Surface Soil / Sediment
SVOC	bis(2-ETHYLHEXYL) PHTHALATE	mg/Kg	31	15	48%	--	--	2.50E-02	7.00E+00	4.06E-01	7.94E-01	4.53E+00	4.48E-01	4.53E+00	Bootstrap-t	Surface Soil / Sediment
SVOC	CHRYSENE	mg/Kg	32	13	41%	--	--	1.80E-02	2.40E+00	2.55E-01	3.89E-01	5.63E-01	5.88E-01	5.63E-01	Bootstrap-t	Surface Soil / Sediment
SVOC	DIBENZ(a,h)ANTHRACENE	mg/Kg	33	1	3%	--	--	1.55E-02	2.00E-01	6.61E-02	8.44E-02	8.62E-02	9.73E-02	8.62E-02	Bootstrap-t	Surface Soil / Sediment
SVOC	DIBENZOFURAN	mg/Kg	33	1	3%	--	--	1.80E-02	2.50E-01	7.50E-02	9.40E-02	9.59E-02	1.10E-01	9.59E-02	Bootstrap-t	Surface Soil / Sediment
SVOC	DI-n-BUTYL PHTHALATE	mg/Kg	31	4	13%	--	--	2.50E-02	8.00E-01	1.12E-01	1.56E-01	1.99E-01	1.69E-01	1.99E-01	Bootstrap-t	Surface Soil / Sediment
SVOC	FLUORANTHENE	mg/Kg	33	13	39%	--	--	2.00E-02	5.70E+00	5.71E-01	9.33E-01	1.67E+00	1.73E+00	1.67E+00	Bootstrap-t	Surface Soil / Sediment
SVOC	FLUORENE	mg/Kg	33	2	6%	--	--	1.80E-02	2.00E-01	6.90E-02	8.71E-02	8.88E-02	1.03E-01	8.88E-02	Bootstrap-t	Surface Soil / Sediment
SVOC	INDENO(1,2,3-c,d)PYRENE	mg/Kg	33	5	15%	--	--	1.65E-02	5.00E-01	9.22E-02	1.24E-01	1.36E-01	1.50E-01	1.36E-01	Bootstrap-t	Surface Soil / Sediment
SVOC	PHENANTHRENE	mg/Kg	33	11	33%	--	--	1.80E-02	3.50E+00	2.67E-01	4.48E-01	8.66E-01	5.34E-01	8.66E-01	Bootstrap-t	Surface Soil / Sediment
SVOC	PYRENE	mg/Kg	33	14	42%	--	--	1.70E-02	5.40E+00	5.27E-01	8.70E-01	1.76E+00	1.57E+00	1.76E+00	Bootstrap-t	Surface Soil / Sediment
TPH	DIESEL RANGE ORGANICS	mg/Kg	36	34	94%	--	--	1.50E+00	2.30E+03	2.04E+02	3.34E+02	5.56E+02	6.78E+02	6.78E+02	Lognormal	Surface Soil / Sediment
TPH	GASOLINE RANGE ORGANICS	mg/Kg	32	1	3%	--	--	9.00E-02	4.00E+00	2.34E+00	2.71E+00	2.70E+00	5.73E+00	2.70E+00	Bootstrap-t	Surface Soil / Sediment
TPH	TRIPHENYLENE	mg/Kg	9	8	89%	--	--	5.00E+00	7.40E+02	1.71E+02	3.17E+02	4.88E+02	--	4.88E+02	Bootstrap-t	Surface Soil / Sediment
VOC	1,1,1-TRICHLOROETHANE	mg/Kg	31	1	3%	--	--	1.00E-03	3.50E-03	1.71E-03	1.95E-03	1.96E-03	2.00E-03	1.96E-03	Bootstrap-t	Surface Soil / Sediment
VOC	1,2,4-TRIMETHYLBENZENE	mg/Kg	31	1	3%	--	--	3.50E-04	1.00E-02	3.05E-03	4.32E-03	4.62E-03	6.03E-03	4.62E-03	Bootstrap-t	Surface Soil / Sediment
VOC	1,3,5-TRIMETHYLBENZENE (MESITYLENE)	mg/Kg	31	1	3%	--	--	4.00E-04	1.00E-02	3.22E-03	4.48E-03	4.76E-03	6.36E-03	4.76E-03	Bootstrap-t	Surface Soil / Sediment
VOC	2-CHLOROTOLUENE	mg/Kg	31	2	6%	--	--	4.75E-04	1.00E-02	3.56E-03	4.88E-03	5.00E-03	7.41E-03	5.00E-03	Bootstrap-t	Surface Soil / Sediment
VOC	ACETONE	mg/Kg	31	9	29%	--	--	5.00E-03	3.50E-01	5.55E-02	7.90E-02	9.39E-02	8.86E-02	9.39E-02	Bootstrap-t	Surface Soil / Sediment
VOC	METHYL ETHYL KETONE (2-BUTANONE)	mg/Kg	31	10	32%	--	--	1.50E-03	7.50E-02	1.37E-02	1.91E-02	2.17E-02	2.71E-02	2.17E-02	Bootstrap-t	Surface Soil / Sediment
VOC	METHYLENE CHLORIDE	mg/Kg	31	4	13%	--	--	1.50E-03	3.30E-02	5.77E-03	8.22E-03	9.95E-03	7.73E-03	9.95E-03	Bootstrap-t	Surface Soil / Sediment
VOC	NAPHTHALENE	mg/Kg	32	3	9%	--	--	3.50E-04	3.05E-02	3.90E-03	5.81E-03	6.61E-03	8.53E-03	6.61E-03	Bootstrap-t	Surface Soil / Sediment
VOC	n-PROPYLBENZENE	mg/Kg	31	2	6%	--	--	3.50E-04	1.80E-01	9.75E-03	1.96E-02	6.15E-02	2.01E-02	6.15E-02	Bootstrap-t	Surface Soil / Sediment
VOC	P-CYMENE (p-ISOPROPYLTOLUENE)	mg/Kg	31	2	6%	--	--	3.00E-04	1.30E-01	7.29E-03	1.43E-02	3.72E-02	1.50E-02	3.72E-02	Bootstrap-t	Surface Soil / Sediment
VOC	TOLUENE	mg/Kg	31	2	6%	--	--	1.00E-03	6.00E-03	1.87E-03	2.26E-03	2.49E-03	2.22E-03	2.49E-03	Bootstrap-t	Surface Soil / Sediment
VOC	TRICHLOROETHYLENE (TCE)	mg/Kg	31	1	3%	--	--	5.00E-04	3.00E-02	2.16E-03	3.76E-03	9.78E-03	2.45E-03	9.78E-03	Bootstrap-t	Surface Soil / Sediment
VOC	XYLENES, m & p	mg/Kg	4	1	25%	--	--	6.50E-04	4.80E-03	1.75E-03	4.14E-03	7.05E-02	--	1.75E-03	MAXDET	Surface Soil / Sediment
VOC	XYLENES, TOTAL	mg/Kg	27	2	7%	--	--	1.50E-03	6.00E-03	2.44E-03	2.86E-03	3.03E-03	--	3.03E-03	Bootstrap-t	Surface Soil / Sediment

Notes:

PCB - polychlorinated biphenyl
PEST - pesticide
VOC = volatile organic compound
SVOC = semivolatile organic compound
mg/kg = milligrams per kilogram
MDL - method detection limit

TABLE A-8

Summary Statistics for Constituents Detected in Surface Soil at BLD 35-752 Area

Building 35-752 Surface Soil

Ft. Richardson

Chemical Class	Chemical Name	Units	Number of Samples Analyzed	Number of Detects	Frequency of Detects	Minimum MDL	Maximum MDL	Minimum Detected Result	Maximum Detected Result	Average Concentration	95% UCL Normal	95% UCL Lognormal	Bootstrap-t	Exposure Point Concentration	EPC Basis	Comment
PEST/PCB	DIELDRIN	mg/Kg	6	6	100.0%	--	--	2.00E-03	5.30E-02	1.60E-02	3.12E-02	--	8.48E-02	8.48E-02	Bootstrap-t	Surface Soil
PEST/PCB	p,p'-DDE	mg/Kg	6	6	100.0%	--	--	2.00E-03	4.00E-02	1.17E-02	2.33E-02	--	6.05E-02	6.05E-02	Bootstrap-t	Surface Soil
PEST/PCB	PCB-1260 (Aroclor 1260)	mg/Kg	6	6	100.0%	--	--	4.20E-01	9.20E+00	2.87E+00	5.48E+00	--	1.17E+01	9.20E+00	Max detect	Surface Soil
SVOC	CHRYSENE	mg/Kg	6	1	16.7%	4.00E-02	4.00E-02	1.00E-01	1.00E-01	3.33E-02	6.02E-02	--	1.48E+06	1.00E-01	Max detect	Surface Soil
SVOC	FLUORANTHENE	mg/Kg	6	1	16.7%	4.00E-02	4.00E-02	1.00E-01	1.00E-01	3.33E-02	6.02E-02	--	1.48E+06	1.00E-01	Max detect	Surface Soil
SVOC	PYRENE	mg/Kg	6	1	16.7%	4.00E-02	4.00E-02	1.00E-01	1.00E-01	3.33E-02	6.02E-02	--	1.48E+06	1.00E-01	Max detect	Surface Soil
VOC	1,1,1-TRICHLOROETHANE	mg/Kg	6	1	16.7%	2.00E-03	2.00E-03	3.50E-03	3.50E-03	1.42E-03	2.26E-03	--	2.62E-03	2.62E-03	Bootstrap-std	Surface Soil

Notes:

PCB - polychlorinated biphenyl
PEST - pesticide
VOC = volatile organic compound
SVOC = semivolatile organic compound
mg/kg = milligrams per kilogram
MDL - method detection limit

TABLE A-9

Summary Statistics for Constituents Detected in Surface Soil at Burn Pit Area

Building 35-752 Surface Soil

Ft. Richardson

Chemical Class	Chemical Name	Units	Number of Samples Analyzed	Number of Detects	Frequency of Detects	Minimum MDL	Maximum MDL	Minimum Detected Result	Maximum Detected Result	Average Concentration	95% UCL Normal	95% UCL Lognormal	Bootstrap-t	Exposure Point Concentration	EPC Basis	Comment
DIOXI	1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	mg/Kg	4	2	50.0%	1.96E-06	1.99E-06	5.40E-07	1.20E-06	9.29E-07	1.26E-06	--	1.12E-06	1.20E-06	Max detect	Surface Soil
DIOXI	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN	mg/Kg	4	3	75.0%	1.09E-06	1.09E-06	6.50E-07	1.10E-06	8.49E-07	1.19E-06	--	2.06E-06	1.10E-06	Max detect	Surface Soil
DIOXI	1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	mg/Kg	4	1	25.0%	1.67E-06	1.69E-06	8.20E-07	8.20E-07	8.34E-07	8.46E-07	--	8.41E-07	8.20E-07	Max detect	Surface Soil
DIOXI	1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	mg/Kg	4	2	50.0%	7.40E-07	7.50E-07	5.50E-07	1.30E-06	6.49E-07	1.17E-06	--	4.30E-05	1.30E-06	Max detect	Surface Soil
DIOXI	1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	mg/Kg	4	1	25.0%	9.80E-07	9.90E-07	2.60E-07	2.60E-07	4.34E-07	5.70E-07	--	4.85E-07	2.60E-07	Max detect	Surface Soil
DIOXI	OCTACHLORODIBENZOFURAN	mg/Kg	4	3	75.0%	4.28E-06	4.28E-06	5.90E-07	4.80E-06	2.38E-06	4.45E-06	--	9.18E-06	4.80E-06	Max detect	Surface Soil
DIOXI	OCTACHLORODIBENZO-p-DIOXIN	mg/Kg	4	3	75.0%	2.59E-06	2.59E-06	5.60E-06	1.09E-05	6.85E-06	1.20E-05	--	1.15E-05	1.09E-05	Max detect	Surface Soil
DIOXI	Total TCDD-Mammal	mg/Kg	3	3	100.0%	--	--	1.20E-08	1.89E-07	8.95E-08	--	--	--	1.89E-07	Max detect	Surface Soil
PEST/	PCB-1260 (Aroclor 1260)	mg/Kg	4	4	100.0%	--	--	1.30E-02	8.10E-02	4.30E-02	8.28E-02	--	4.03E-03	8.10E-02	Max detect	Surface Soil
SVOC	BENZYL BUTYL PHTHALATE	mg/Kg	4	1	25.0%	3.00E-02	3.00E-02	3.90E-02	3.90E-02	2.10E-02	2.00E-02	--	-1.#QNAN	2.00E-02	Max detect	Surface Soil
SVOC	bis(2-ETHYLHEXYL) PHTHALATE	mg/Kg	4	4	100.0%	--	--	4.60E-02	7.60E-02	6.23E-02	8.49E-02	--	7.33E-02	7.60E-02	Max detect	Surface Soil
SVOC	DI-n-BUTYL PHTHALATE	mg/Kg	4	4	100.0%	--	--	9.10E-02	8.00E-01	3.10E-01	7.04E-01	--	1.41E+01	8.00E-01	Max detect	Surface Soil
VOC	METHYL ETHYL KETONE (2-BUTANONE)	mg/Kg	4	2	50.0%	5.10E-03	5.40E-03	1.60E-02	4.60E-02	1.68E-02	4.09E-02	--	3.37E+00	4.60E-02	Max detect	Surface Soil
VOC	METHYLENE CHLORIDE	mg/Kg	4	4	100.0%	--	--	1.60E-02	3.30E-02	2.50E-02	3.39E-02	--	3.80E-02	3.30E-02	Max detect	Surface Soil
VOC	P-CYMENE (p-ISOPROPYLTOLUENE)	mg/Kg	4	1	25.0%	9.50E-04	1.20E-03	4.70E-03	4.70E-03	1.58E-03	4.02E-03	--	7.41E-02	4.70E-03	Max detect	Surface Soil
VOC	TRICHLOROETHYLENE (TCE)	mg/Kg	4	1	25.0%	2.60E-03	2.90E-03	3.00E-02	3.00E-02	8.53E-03	2.54E-02	--	3.58E+00	3.00E-02	Max detect	Surface Soil
VOC	XYLENES, m & p	mg/Kg	4	1	25.0%	1.30E-03	1.60E-03	4.80E-03	4.80E-03	1.75E-03	4.14E-03	--	7.05E-02	4.80E-03	Max detect	Surface Soil

Notes:

PCB - polychlorinated biphenyl
PEST - pesticide
VOC = volatile organic compound
SVOC = semivolatile organic compound
mg/kg = milligrams per kilogram
MDL - method detection limit

TABLE A-10

Summary Statistics for Constituents Detected in Surface Soil at Cooling Pond Area

Building 35-752 Surface Soil

Ft. Richardson

Chemical Class	Chemical Name	Units	Number of Samples Analyzed	Number of Detects	Frequency of Detects	Minimum MDL	Maximum MDL	Minimum Detected Result	Maximum Detected Result	Average Concentration	95% UCL Normal	95% UCL Lognormal	Bootstrap-t	Exposure Point Concentration	EPC Basis	Comment
METAL	ARSENIC	mg/Kg	13	13	100%	--	--	3.00E+00	6.00E+00	4.31E+00	4.78E+00	-	4.79E+00	4.78E+00	Normal	Surface Soil / Sediment
METAL	BARIUM	mg/Kg	13	13	100%	--	--	3.80E+01	1.36E+02	7.97E+01	9.38E+01	-	9.60E+01	9.38E+01	Normal	Surface Soil / Sediment
METAL	CADMIUM	mg/Kg	13	3	23%	--	--	2.50E-01	2.00E+00	4.81E-01	7.30E-01	-	1.51E+00	1.51E+00	Bootstrap-t	Surface Soil / Sediment
METAL	CHROMIUM	mg/Kg	13	13	100%	--	--	2.70E+01	6.40E+01	3.85E+01	4.34E+01	-	4.63E+01	4.63E+01	Bootstrap-t	Surface Soil / Sediment
METAL	LEAD	mg/Kg	13	12	92%	--	--	2.00E+00	2.00E+02	5.13E+01	7.86E+01	-	1.17E+02	1.17E+02	Bootstrap-t	Surface Soil / Sediment
METAL	MERCURY	mg/Kg	13	10	77%	--	--	2.50E-02	3.00E-01	1.02E-01	1.38E-01	-	1.75E-01	1.75E-01	Bootstrap-t	Surface Soil / Sediment
METAL	NICKEL	mg/Kg	1	1	100%	--	--	4.00E+01	4.00E+01	4.00E+01	-	-	-	4.00E+01	MAXDET	Surface Soil / Sediment
METAL	SILVER	mg/Kg	13	12	92%	--	--	2.00E-01	1.00E+00	2.92E-01	4.11E-01	-	5.14E+06	1.00E+00	MAXDET	Surface Soil / Sediment
PEST/PCB	ALDRIN	mg/Kg	13	6	46%	--	--	2.00E-04	3.00E-03	9.62E-04	1.47E-03	-	1.83E-03	1.83E-03	Bootstrap-t	Surface Soil / Sediment
PEST/PCB	BETA BHC	mg/Kg	13	1	8%	--	--	1.00E-03	6.00E-03	1.88E-03	2.54E-03	-	3.19E-03	3.19E-03	Bootstrap-t	Surface Soil / Sediment
PEST/PCB	DIELDRIN	mg/Kg	13	9	69%	--	--	1.50E-04	1.10E-02	3.94E-03	5.63E-03	-	5.89E-03	5.63E-03	Normal	Surface Soil / Sediment
PEST/PCB	ENDRIN	mg/Kg	13	1	8%	--	--	4.00E-04	3.40E-02	3.26E-03	7.83E-03	-	8.91E-02	3.40E-02	MAXDET	Surface Soil / Sediment
PEST/PCB	ENDRIN ALDEHYDE	mg/Kg	13	1	8%	--	--	2.50E-04	3.00E-03	5.77E-04	9.42E-04	-	1.92E-03	1.92E-03	Bootstrap-t	Surface Soil / Sediment
PEST/PCB	p,p'-DDD	mg/Kg	13	13	100%	--	--	1.00E-03	7.40E-01	2.02E-01	3.10E-01	-	3.59E-01	3.59E-01	Bootstrap-t	Surface Soil / Sediment
PEST/PCB	p,p'-DDE	mg/Kg	13	13	100%	--	--	5.00E-04	3.00E-02	1.08E-02	1.56E-02	-	1.69E-02	1.69E-02	Bootstrap-t	Surface Soil / Sediment
PEST/PCB	p,p'-DDT	mg/Kg	12	9	75%	--	--	2.00E-04	3.09E-01	9.50E-02	1.48E-01	-	1.80E-01	1.80E-01	Bootstrap-t	Surface Soil / Sediment
PEST/PCB	PCB-1260 (AROCHLOR 1260)	mg/Kg	13	13	100%	--	--	1.10E-01	3.30E+00	1.14E+00	1.64E+00	-	2.09E+00	2.09E+00	Bootstrap-t	Surface Soil / Sediment
SVOC	2-METHYLNAPHTHALENE	mg/Kg	13	1	8%	--	--	2.50E-02	2.50E-01	6.74E-02	9.94E-02	-	1.17E-01	1.17E-01	Bootstrap-t	Surface Soil / Sediment
SVOC	ACENAPHTHENE	mg/Kg	13	1	8%	--	--	2.25E-02	2.50E-01	6.71E-02	9.92E-02	-	1.17E-01	1.17E-01	Bootstrap-t	Surface Soil / Sediment
SVOC	ACENAPHTHYLENE	mg/Kg	13	1	8%	--	--	1.15E-02	2.50E-01	6.63E-02	9.87E-02	-	1.19E-01	1.19E-01	Bootstrap-t	Surface Soil / Sediment
SVOC	ANTHRACENE	mg/Kg	13	3	23%	--	--	2.00E-02	1.20E+00	1.58E-01	3.19E-01	-	8.69E-01	8.69E-01	Bootstrap-t	Surface Soil / Sediment
SVOC	BENZO(a)ANTHRACENE	mg/Kg	13	9	69%	--	--	2.00E-02	1.00E+00	2.14E-01	3.53E-01	-	6.25E-01	6.25E-01	Bootstrap-t	Surface Soil / Sediment
SVOC	BENZO(a)PYRENE	mg/Kg	13	9	69%	--	--	2.00E-02	7.00E-01	1.50E-01	2.37E-01	-	3.49E-01	3.49E-01	Bootstrap-t	Surface Soil / Sediment
SVOC	BENZO(b)FLUORANTHENE	mg/Kg	13	10	77%	--	--	2.00E-02	1.40E+00	2.71E-01	4.48E-01	-	7.35E-01	7.35E-01	Bootstrap-t	Surface Soil / Sediment
SVOC	BENZO(g,h,i)PERYLENE	mg/Kg	13	3	23%	--	--	2.50E-02	3.00E-01	9.22E-02	1.40E-01	-	1.63E-01	1.63E-01	Bootstrap-t	Surface Soil / Sediment
SVOC	BENZO(k)FLUORANTHENE	mg/Kg	13	10	77%	--	--	2.00E-02	1.20E+00	2.29E-01	3.82E-01	-	7.26E-01	7.26E-01	Bootstrap-t	Surface Soil / Sediment
SVOC	bis(2-ETHYLHEXYL) PHTHALATE	mg/Kg	12	10	83%	--	--	2.50E-02	7.00E+00	9.02E-01	1.94E+00	-	1.24E+01	7.00E+00	MAXDET	Surface Soil / Sediment
SVOC	CHRYSENE	mg/Kg	13	10	77%	--	--	2.00E-02	2.40E+00	4.50E-01	7.62E-01	-	1.43E+00	1.43E+00	Bootstrap-t	Surface Soil / Sediment
SVOC	DIBENZ(a,h)ANTHRACENE	mg/Kg	14	1	7%	--	--	1.55E-02	2.00E-01	5.43E-02	8.11E-02	-	1.08E-01	1.08E-01	Bootstrap-t	Surface Soil / Sediment
SVOC	DIBENZOFURAN	mg/Kg	14	1	7%	--	--	2.50E-02	2.50E-01	7.34E-02	1.05E-01	-	1.21E-01	1.21E-01	Bootstrap-t	Surface Soil / Sediment
SVOC	FLUORANTHENE	mg/Kg	14	11	79%	--	--	2.00E-02	5.70E+00	1.19E+00	2.00E+00	-	3.66E+00	3.66E+00	Bootstrap-t	Surface Soil / Sediment
SVOC	FLUORENE	mg/Kg	14	2	14%	--	--	2.00E-02	2.00E-01	6.16E-02	8.80E-02	-	1.05E-01	1.05E-01	Bootstrap-t	Surface Soil / Sediment
SVOC	INDENO(1,2,3-c,d)PYRENE	mg/Kg	14	4	29%	--	--	2.00E-02	5.00E-01	1.06E-01	1.72E-01	-	2.63E-01	2.63E-01	Bootstrap-t	Surface Soil / Sediment
SVOC	PHENANTHRENE	mg/Kg	14	11	79%	--	--	2.00E-02	3.50E+00	5.28E-01	9.50E-01	-	1.98E+00	1.98E+00	Bootstrap-t	Surface Soil / Sediment
SVOC	PYRENE	mg/Kg	14	12	86%	--	--	2.00E-02	5.40E+00	1.10E+00	1.87E+00	-	4.49E+00	4.49E+00	Bootstrap-t	Surface Soil / Sediment
TPH	DIESEL RANGE ORGANICS	mg/Kg	12	12	100%	--	--	3.20E+01	2.30E+03	5.35E+02	9.01E+02	-	1.42E+03	1.42E+03	Bootstrap-t	Surface Soil / Sediment
TPH	TRIPHENYLENE	mg/Kg	1	1	100%	--	--	2.60E+02	2.60E+02	2.60E+02	-	-	-	2.60E+02	MAXDET	Surface Soil / Sediment
VOC	1,2,4-TRIMETHYLBENZENE	mg/Kg	12	1	8%	--	--	3.50E-04	1.50E-03	7.54E-04	9.57E-04	-	9.70E-04	9.70E-04	Bootstrap-t	Surface Soil / Sediment
VOC	1,3,5-TRIMETHYLBENZENE (MESITYLENE)	mg/Kg	12	1	8%	--	--	4.00E-04	4.00E-03	1.04E-03	1.56E-03	-	2.13E-03	2.13E-03	Bootstrap-t	Surface Soil / Sediment
VOC	2-CHLOROTOLUENE	mg/Kg	12	2	17%	--	--	5.00E-04	1.00E-02	2.04E-03	3.65E-03	-	1.44E-02	1.00E-02	MAXDET	Surface Soil / Sediment
VOC	ACETONE	mg/Kg	12	9	75%	--	--	1.50E-02	3.50E-01	1.16E-01	1.67E-01	-	1.96E-01	1.67E-01	Normal	Surface Soil / Sediment
VOC	METHYL ETHYL KETONE (2-BUTANONE)	mg/Kg	12	8	67%	--	--	1.50E-03	7.50E-02	2.22E-02	3.46E-02	-	4.14E-02	4.14E-02	Bootstrap-t	Surface Soil / Sediment
VOC	NAPHTHALENE	mg/Kg	13	3	23%	--	--	3.50E-04	3.05E-02	3.11E-03	7.19E-03	-	5.61E-02	3.05E-02	MAXDET	Surface Soil / Sediment
VOC	n-PROPYLBENZENE	mg/Kg	12	2	17%	--	--	3.50E-04	1.80E-01	1.81E-02	4.49E-02	-	2.25E+00	1.80E-01	MAXDET	Surface Soil / Sediment
VOC	P-CYMENE (p-ISOPROPYLTOLUENE)	mg/Kg	12	1	8%	--	--	3.00E-04	1.30E-01	1.15E-02	3.08E-02	-	1.27E+00	1.30E-01	MAXDET	Surface Soil / Sediment

Notes:

PCB - polychlorinated biphenyl
PEST - pesticide
VOC = volatile organic compound
SVOC = semivolatile organic compound
mg/kg = milligrams per kilogram
MDL - method detection limit

TABLE A-11
Summary Statistics for Constituents Detected in Surface Soil at Former Drum
Building 35-752 Surface Soil
Ft. Richardson

Chemical Class	Chemical Name	Units	Number of Samples Analyzed	Number of Detects	Frequency of Detects	Minimum MDL	Maximum MDL	Minimum Detected Result	Maximum Detected Result	Average Concentration	95% UCL Normal	95% UCL Lognormal	Bootstrap-t	Exposure Point Concentration	EPC Basis	Comment
METAL	ALUMINUM	mg/Kg	8	8	100.0%	--	--	8.62E+03	1.87E+04	1.49E+04	1.71E+04	--	1.67E+04	1.71E+04	Student's-t	Surface Soil
METAL	ARSENIC	mg/Kg	8	8	100.0%	--	--	5.00E+00	8.00E+00	7.00E+00	7.62E+00	--	7.62E+00	7.50E+00	Bootstrap-t	Surface Soil
METAL	BARIUM	mg/Kg	8	8	100.0%	--	--	6.40E+01	2.20E+02	1.00E+02	1.34E+02	--	1.34E+02	1.90E+02	Bootstrap-t	Surface Soil
METAL	CHROMIUM	mg/Kg	8	8	100.0%	--	--	2.30E+01	3.60E+01	2.98E+01	3.26E+01	--	3.26E+01	3.26E+01	Student's-t	Surface Soil
METAL	COBALT	mg/Kg	8	8	100.0%	--	--	7.00E+00	1.30E+01	1.06E+01	1.19E+01	--	1.19E+01	1.19E+01	Student's-t	Surface Soil
METAL	COPPER	mg/Kg	8	8	100.0%	--	--	2.00E+01	3.40E+01	2.76E+01	3.10E+01	--	3.10E+01	3.10E+01	Student's-t	Surface Soil
METAL	IRON	mg/Kg	8	8	100.0%	--	--	1.85E+04	3.09E+04	2.50E+04	2.78E+04	--	2.78E+04	2.78E+04	Student's-t	Surface Soil
METAL	LEAD	mg/Kg	8	8	100.0%	--	--	6.00E+00	3.60E+01	1.24E+01	1.90E+01	--	1.90E+01	3.27E+01	Bootstrap-t	Surface Soil
METAL	MANGANESE	mg/Kg	8	8	100.0%	--	--	3.83E+02	6.69E+02	5.18E+02	5.83E+02	--	5.83E+02	5.83E+02	Student's-t	Surface Soil
METAL	NICKEL	mg/Kg	8	8	100.0%	--	--	2.30E+01	4.90E+01	3.29E+01	3.82E+01	--	3.82E+01	3.82E+01	Student's-t	Surface Soil
METAL	VANADIUM	mg/Kg	8	8	100.0%	--	--	2.80E+01	6.00E+01	4.55E+01	5.18E+01	--	5.18E+01	5.18E+01	Student's-t	Surface Soil
METAL	ZINC	mg/Kg	8	8	100.0%	--	--	4.70E+01	8.60E+01	6.29E+01	7.14E+01	--	7.14E+01	7.14E+01	Student's-t	Surface Soil
PEST/	p,p'-DDT	mg/Kg	8	2	25.0%	1.00E-02	5.00E-01	2.00E-02	1.20E-01	5.47E-02	1.14E-01	--	1.14E-01	5.88E-01	Bootstrap-t	Surface Soil
PEST/	PCB-1260 (Aroclor 1260)	mg/Kg	8	5	62.5%	1.00E-01	1.00E-01	5.00E-01	1.56E+01	2.54E+00	6.11E+00	--	6.11E+00	1.56E+01	Max detect	Surface Soil
SVOC	BENZO(a)PYRENE	mg/Kg	8	1	12.5%	3.00E-01	3.00E-01	3.00E-01	3.00E-01	1.69E-01	2.04E-01	--	2.04E-01	1.97E-01	Bootstrap-std	Surface Soil
SVOC	BENZO(b)FLUORANTHENE	mg/Kg	8	1	12.5%	3.00E-01	3.00E-01	8.00E-01	8.00E-01	2.31E-01	3.85E-01	--	3.85E-01	3.59E-01	Bootstrap-std	Surface Soil
SVOC	BENZO(k)FLUORANTHENE	mg/Kg	8	1	12.5%	3.00E-01	3.00E-01	7.00E-01	7.00E-01	2.19E-01	3.49E-01	--	3.24E-01	3.24E-01	Bootstrap-std	Surface Soil
SVOC	CHRYSENE	mg/Kg	8	2	25.0%	3.00E-01	3.00E-01	3.00E-01	8.00E-01	2.50E-01	4.03E-01	--	3.74E-01	3.74E-01	Bootstrap-std	Surface Soil
SVOC	FLUORANTHENE	mg/Kg	8	1	12.5%	3.00E-01	3.00E-01	8.00E-01	8.00E-01	2.31E-01	3.85E-01	--	3.85E-01	4.59E-01	Bootstrap-std	Surface Soil
SVOC	INDENO(1,2,3-c,d)PYRENE	mg/Kg	8	1	12.5%	3.00E-01	3.00E-01	3.00E-01	3.00E-01	1.69E-01	2.07E-01	--	2.07E-01	1.97E-01	Bootstrap-std	Surface Soil
SVOC	PYRENE	mg/Kg	8	1	12.5%	3.00E-01	3.00E-01	7.00E-01	7.00E-01	2.19E-01	3.49E-01	--	3.49E-01	3.25E-01	Bootstrap-std	Surface Soil
TPH	TRIPHENYLENE	mg/Kg	8	7	87.5%	1.00E+01	1.00E+01	2.80E+01	7.40E+02	1.60E+02	3.27E+02	--	3.27E+02	7.40E+02	Max detect	Surface Soil
VOC	TOLUENE	mg/Kg	8	2	25.0%	5.00E-03	5.00E-03	6.00E-03	6.00E-03	3.38E-03	4.46E-03	--	4.46E-03	6.00E-03	Max detect	Surface Soil
VOC	XYLENES, TOTAL	mg/Kg	8	2	25.0%	5.00E-03	5.00E-03	6.00E-03	6.00E-03	3.38E-03	4.46E-03	--	4.46E-03	6.00E-03	Max detect	Surface Soil

Notes:

PCB - polychlorinated biphenyl
PEST - pesticide
VOC = volatile organic compound
SVOC = semivolatile organic compound
mg/kg = milligrams per kilogram
MDL - method detection limit

TABLE A-12

Summary Statistics for Constituents Detected in Surface Soil at Former Tank Location

Building 35-752 Surface Soil

Ft. Richardson

Chemical Class	Chemical Name	Units	Number of Samples Analyzed	Number of Detects	Frequency of Detects	Minimum MDL	Maximum MDL	Minimum Detected Result	Maximum Detected Result	Average Concentration	95% UCL Normal	95% UCL Lognormal	Bootstrap-t	Exposure Point Concentration	EPC Basis	Comment
PEST/	DIELDRIN	mg/Kg	1	1	100.0%	--	--	6.00E-04	6.00E-04	6.00E-04	--	--	--	6.00E-04	Max detect	Surface Soil
PEST/	p,p'-DDE	mg/Kg	1	1	100.0%	--	--	4.00E-04	4.00E-04	4.00E-04	--	--	--	4.00E-04	Max detect	Surface Soil
PEST/	p,p'-DDT	mg/Kg	1	1	100.0%	--	--	7.00E-03	7.00E-03	7.00E-03	--	--	--	7.00E-03	Max detect	Surface Soil
PEST/	PCB-1260 (Aroclor 1260)	mg/Kg	1	1	100.0%	--	--	3.00E-02	3.00E-02	3.00E-02	--	--	--	3.00E-02	Max detect	Surface Soil
SVOC	bis(2-ETHYLHEXYL) PHTHALATE	mg/Kg	1	1	100.0%	--	--	1.00E-01	1.00E-01	1.00E-01	--	--	--	1.00E-01	Max detect	Surface Soil

Notes:

PCB - polychlorinated biphenyl
PEST - pesticide
VOC = volatile organic compound
SVOC = semivolatile organic compound
mg/kg = milligrams per kilogram
MDL - method detection limit

TABLE A-13

Summary Statistics for Constituents Detected in Surface Soil at Periphery Road

Building 35-752 Surface Soil

Ft. Richardson

Chemical Class	Chemical Name	Units	Number of Samples Analyzed	Number of Detects	Frequency of Detects	Minimum MDL	Maximum MDL	Minimum Detected Result	Maximum Detected Result	Average Concentration	95% UCL Normal	95% UCL Lognormal	Bootstrap-t	Exposure Point Concentration	EPC Basis	Comment
DIOXI	1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	mg/Kg	4	3	75.0%	1.00E-05	1.00E-05	5.75E-06	6.72E-05	3.56E-05	7.68E-05	--	2.48E-03	6.72E-05	Max detect	Surface Soil
DIOXI	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN	mg/Kg	4	4	100.0%	--	--	8.25E-06	1.42E-04	6.23E-05	1.30E-04	--	1.87E-04	1.42E-04	Max detect	Surface Soil
DIOXI	1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	mg/Kg	4	3	75.0%	1.00E-05	1.00E-05	1.70E-06	2.37E-05	1.19E-05	2.43E-05	--	2.52E-05	2.37E-05	Max detect	Surface Soil
DIOXI	1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	mg/Kg	4	3	75.0%	8.00E-06	8.00E-06	3.50E-06	5.81E-05	2.55E-05	5.68E-05	--	2.03E-03	5.81E-05	Max detect	Surface Soil
DIOXI	1,2,3,4,7,8-HEXACHLORODIBENZO-p-DIOXIN	mg/Kg	4	1	25.0%	9.30E-07	1.00E-05	1.10E-06	1.10E-06	1.76E-06	4.33E-06	--	9.77E-04	1.10E-06	Max detect	Surface Soil
DIOXI	1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	mg/Kg	4	3	75.0%	1.00E-05	1.00E-05	5.85E-07	6.80E-06	4.20E-06	7.27E-06	--	6.22E-06	6.80E-06	Max detect	Surface Soil
DIOXI	1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	mg/Kg	4	3	75.0%	2.00E-05	2.00E-05	3.10E-07	3.70E-06	3.93E-06	8.96E-06	--	1.95E-05	3.70E-06	Max detect	Surface Soil
DIOXI	1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	mg/Kg	4	2	50.0%	1.39E-06	1.00E-05	1.60E-06	3.10E-06	2.60E-06	4.81E-06	--	7.70E-06	3.10E-06	Max detect	Surface Soil
DIOXI	2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	mg/Kg	4	3	75.0%	1.00E-05	1.00E-05	4.55E-07	4.00E-06	3.29E-06	5.61E-06	--	4.56E-06	4.00E-06	Max detect	Surface Soil
DIOXI	2,3,4,7,8-PENTACHLORODIBENZOFURAN	mg/Kg	4	3	75.0%	1.00E-05	1.00E-05	4.25E-07	4.90E-06	3.78E-06	6.42E-06	--	4.82E-06	4.90E-06	Max detect	Surface Soil
DIOXI	2,3,7,8-TETRACHLORODIBENZOFURAN	mg/Kg	4	3	75.0%	7.00E-06	7.00E-06	4.50E-07	5.20E-06	2.76E-06	5.17E-06	--	6.22E-06	5.20E-06	Max detect	Surface Soil
DIOXI	OCTACHLORODIBENZOFURAN	mg/Kg	4	3	75.0%	3.00E-05	3.00E-05	1.31E-05	2.04E-04	9.93E-05	2.17E-04	--	7.84E-03	2.04E-04	Max detect	Surface Soil
DIOXI	OCTACHLORODIBENZO-p-DIOXIN	mg/Kg	4	4	100.0%	--	--	5.17E-05	9.61E-04	4.11E-04	8.68E-04	--	1.35E-03	9.61E-04	Max detect	Surface Soil
DIOXI	Total TCDD-Mammal	mg/Kg	4	4	100.0%	--	--	6.35E-07	1.15E-05	5.81E-06	1.27E-05	--	1.94E-04	1.15E-05	Max detect	Surface Soil
PEST/	PCB-1260 (Aroclor 1260)	mg/Kg	10	10	100.0%	--	--	2.91E-02	2.79E+00	6.31E-01	1.10E+00	--	1.74E+00	1.74E+00	Bootstrap t	Surface Soil

Notes:

PCB - polychlorinated biphenyl
PEST - pesticide
VOC = volatile organic compound
SVOC = semivolatile organic compound
mg/kg = milligrams per kilogram
MDL - method detection limit

TABLE A-14

Summary Statistics for Constituents Detected in Surface Soil at Soil Stockpile Area

Building 35-752 Surface Soil

Ft. Richardson

Chemical Class	Chemical Name	Units	Number of Samples Analyzed	Number of Detects	Frequency of Detects	Minimum MDL	Maximum MDL	Minimum Detected Result	Maximum Detected Result	Average Concentration	95% UCL Normal	95% UCL Lognormal	Bootstrap-t	Exposure Point Concentration	EPC Basis	Comment
DIOXI	1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	mg/Kg	2	2	100.0%	--	--	5.80E-06	1.39E-05	9.85E-06	NA	--	NA	1.39E-05	Max detect	Surface Soil
DIOXI	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN	mg/Kg	2	2	100.0%	--	--	1.27E-05	1.53E-05	1.40E-05	NA	--	NA	1.53E-05	Max detect	Surface Soil
DIOXI	1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	mg/Kg	2	2	100.0%	--	--	3.10E-06	6.10E-06	4.60E-06	NA	--	NA	6.10E-06	Max detect	Surface Soil
DIOXI	1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	mg/Kg	2	2	100.0%	--	--	2.70E-06	1.16E-05	7.15E-06	NA	--	NA	1.16E-05	Max detect	Surface Soil
DIOXI	1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	mg/Kg	2	1	50.0%	1.00E-06	1.00E-06	1.50E-06	1.50E-06	1.00E-06	NA	--	NA	1.50E-06	Max detect	Surface Soil
DIOXI	2,3,7,8-TETRACHLORODIBENZOFURAN	mg/Kg	2	1	50.0%	5.10E-07	5.10E-07	9.00E-07	9.00E-07	5.78E-07	NA	--	NA	9.00E-07	Max detect	Surface Soil
DIOXI	OCTACHLORODIBENZOFURAN	mg/Kg	2	2	100.0%	--	--	1.62E-05	3.61E-05	2.61E-05	NA	--	NA	3.61E-05	Max detect	Surface Soil
DIOXI	OCTACHLORODIBENZO-p-DIOXIN	mg/Kg	2	2	100.0%	--	--	7.03E-05	8.58E-05	7.81E-05	NA	--	NA	8.58E-05	Max detect	Surface Soil
DIOXI	Total TCDD-Mammal	mg/Kg	2	2	100.0%	--	--	5.22E-07	1.74E-06	1.13E-06	NA	--	NA	1.74E-06	Max detect	Surface Soil
PEST/	PCB-1260 (Aroclor 1260)	mg/Kg	8	7	87.5%	3.30E-01	3.30E-01	2.50E-02	4.80E-01	2.49E-01	3.71E-01	--	3.74E-01	3.71E-01	Student's t	Surface Soil

Notes:

PCB - polychlorinated biphenyl
PEST - pesticide
VOC = volatile organic compound
SVOC = semivolatile organic compound
mg/kg = milligrams per kilogram
MDL - method detection limit

TABLE A-15

Summary Statistics for Constituents Detected in Surface Soil at Tranformer Mounting

Building 35-752 Surface Soil

Ft. Richardson

Chemical Class	Chemical Name	Units	Number of Samples Analyzed	Number of Detects	Frequency of Detects	Minimum MDL	Maximum MDL	Minimum Detected Result	Maximum Detected Result	Average Concentration	95% UCL Normal	95% UCL Lognormal	Bootstrap-t	Exposure Point Concentration	EPC Basis	Comment
DIOXI	1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	mg/Kg	4	4	100.0%	--	--	1.85E-05	1.66E-04	8.42E-05	1.70E-04	--	9.74E-04	1.66E-04	Max detect	Surface Soil
DIOXI	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN	mg/Kg	4	4	100.0%	--	--	6.74E-05	5.18E-04	2.40E-04	4.91E-04	--	5.24E-03	5.18E-04	Max detect	Surface Soil
DIOXI	1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	mg/Kg	4	4	100.0%	--	--	2.00E-06	1.96E-05	1.05E-05	2.03E-05	--	4.56E-05	1.96E-05	Max detect	Surface Soil
DIOXI	1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	mg/Kg	4	4	100.0%	--	--	1.60E-06	3.72E-05	1.51E-05	3.32E-05	--	6.46E-05	3.72E-05	Max detect	Surface Soil
DIOXI	1,2,3,4,7,8-HEXACHLORODIBENZO-p-DIOXIN	mg/Kg	4	3	75.0%	9.40E-07	9.40E-07	6.30E-07	2.60E-06	1.50E-06	2.80E-06	--	1.29E-05	2.60E-06	Max detect	Surface Soil
DIOXI	1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	mg/Kg	4	4	100.0%	--	--	9.10E-07	6.40E-06	3.03E-06	5.81E-06	--	9.44E-06	6.40E-06	Max detect	Surface Soil
DIOXI	1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	mg/Kg	4	4	100.0%	--	--	1.90E-06	1.17E-05	5.93E-06	1.12E-05	--	3.70E-05	1.17E-05	Max detect	Surface Soil
DIOXI	1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	mg/Kg	4	4	100.0%	--	--	1.60E-06	6.20E-06	3.53E-06	6.24E-06	--	5.19E-06	6.20E-06	Max detect	Surface Soil
DIOXI	1,2,3,7,8-PENTACHLORODIBENZOFURAN	mg/Kg	4	1	25.0%	9.30E-07	9.50E-07	8.32E-05	8.32E-05	2.12E-05	6.98E-05	--	3.42E-01	8.32E-05	Max detect	Surface Soil
DIOXI	1,2,3,7,8-PENTACHLORODIBENZO-p-DIOXIN	mg/Kg	4	1	25.0%	4.80E-07	4.90E-07	6.40E-07	6.40E-07	3.43E-07	5.76E-07	--	4.83E-07	6.40E-07	Max detect	Surface Soil
DIOXI	2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	mg/Kg	4	4	100.0%	--	--	1.10E-06	4.70E-06	3.03E-06	5.19E-06	--	1.02E-05	4.70E-06	Max detect	Surface Soil
DIOXI	2,3,4,7,8-PENTACHLORODIBENZOFURAN	mg/Kg	4	3	75.0%	1.00E-06	1.00E-06	1.40E-06	3.90E-06	1.95E-06	3.64E-06	--	4.43E-06	3.90E-06	Max detect	Surface Soil
DIOXI	2,3,7,8-TETRACHLORODIBENZOFURAN	mg/Kg	4	4	100.0%	--	--	6.60E-07	5.20E-06	2.34E-06	4.72E-06	--	1.15E-05	5.20E-06	Max detect	Surface Soil
DIOXI	2,3,7,8-TETRACHLORODIBENZO-p-DIOXIN	mg/Kg	4	1	25.0%	6.90E-07	7.00E-07	2.60E-07	2.60E-07	3.26E-07	3.78E-07	--	3.69E-07	2.60E-07	Max detect	Surface Soil
DIOXI	OCTACHLORODIBENZOFURAN	mg/Kg	4	4	100.0%	--	--	6.45E-05	7.87E-04	3.47E-04	7.57E-04	--	2.94E-02	7.87E-04	Max detect	Surface Soil
DIOXI	OCTACHLORODIBENZO-p-DIOXIN	mg/Kg	4	4	100.0%	--	--	4.23E-04	4.49E-03	2.03E-03	4.34E-03	--	1.24E-01	4.49E-03	Max detect	Surface Soil
DIOXI	Total TCDD-Mammal	mg/Kg	4	4	100.0%	--	--	1.83E-06	1.68E-05	9.20E-06	1.77E-05	--	3.84E-05	1.68E-05	Max detect	Surface Soil
PEST/	PCB-1260 (AROCHLOR 1260)	mg/Kg	15	15	100.0%	--	--	4.85E-02	9.99E+01	8.60E+00	4.55E+00	--	9.83E+00	9.83E+00	Bootstrap t	Surface Soil

Notes:

PCB - polychlorinated biphenyl
PEST - pesticide
VOC = volatile organic compound
SVOC = semivolatile organic compound
mg/kg = milligrams per kilogram
MDL - method detection limit

TABLE A-16

Summary Statistics for Constituents Detected in All Subsurface Soil

Building 35-752 Subsurface Soil

Ft. Richardson

Chemical Class	Chemical Name	Units	Number of Samples Analyzed	Number of Detects	Frequency of Detects	Minimum MDL	Maximum MDL	Minimum Detected Result	Maximum Detected Result	Average Concentration	95% UCL Normal	Bootstrap-t	95% UCL Lognormal	Exposure Point Concentration	EPC Basis	Comment
DIOXI	1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	mg/Kg	33	25	75.8%	--	--	3.95E-07	1.66E-04	2.09E-05	3.25E-05	3.98E-05	6.81E-05	3.98E-05	Bootstrap-t	Subsurface Soil / Sediment
DIOXI	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN	mg/Kg	33	29	87.9%	--	--	3.40E-07	5.18E-04	4.41E-05	7.44E-05	1.29E-04	2.39E-04	2.39E-04	Lognormal	Subsurface Soil / Sediment
DIOXI	1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	mg/Kg	33	18	54.5%	--	--	6.00E-07	3.42E-05	5.29E-06	7.66E-06	8.74E-06	8.91E-06	8.91E-06	Lognormal	Subsurface Soil / Sediment
DIOXI	1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	mg/Kg	33	23	69.7%	--	--	3.60E-07	8.49E-05	1.00E-05	1.56E-05	1.99E-05	3.15E-05	1.99E-05	Bootstrap-t	Subsurface Soil / Sediment
DIOXI	1,2,3,4,7,8-HEXACHLORODIBENZO-p-DIOXIN	mg/Kg	33	6	18.2%	--	--	4.60E-07	5.00E-06	9.32E-07	1.28E-06	1.62E-06	1.08E-06	1.62E-06	Bootstrap-t	Subsurface Soil / Sediment
DIOXI	1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	mg/Kg	33	19	57.6%	--	--	2.60E-07	1.15E-05	1.88E-06	2.64E-06	2.99E-06	2.82E-06	2.99E-06	Bootstrap-t	Subsurface Soil / Sediment
DIOXI	1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	mg/Kg	33	13	39.4%	--	--	3.10E-07	1.17E-05	2.09E-06	2.98E-06	3.49E-06	2.76E-06	3.49E-06	Bootstrap-t	Subsurface Soil / Sediment
DIOXI	1,2,3,7,8,9-HEXACHLORODIBENZOFURAN	mg/Kg	33	1	3.0%	--	--	1.90E-07	5.00E-06	4.98E-07	8.41E-07	5.06E-06	4.62E-07	5.00E-06	MAXDET	Subsurface Soil / Sediment
DIOXI	1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	mg/Kg	33	11	33.3%	--	--	2.40E-07	6.20E-06	1.46E-06	1.92E-06	2.09E-06	1.84E-06	2.09E-06	Bootstrap-t	Subsurface Soil / Sediment
DIOXI	1,2,3,7,8-PENTACHLORODIBENZOFURAN	mg/Kg	33	3	9.1%	--	--	4.20E-07	8.32E-05	3.20E-06	7.44E-06	7.52E-05	1.69E-06	7.52E-05	Bootstrap-t	Subsurface Soil / Sediment
DIOXI	1,2,3,7,8-PENTACHLORODIBENZO-p-DIOXIN	mg/Kg	33	2	6.1%	--	--	2.40E-07	1.00E-05	8.59E-07	1.55E-06	1.58E-05	7.15E-07	1.00E-05	MAXDET	Subsurface Soil / Sediment
DIOXI	2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	mg/Kg	33	17	51.5%	--	--	2.50E-07	6.35E-06	2.02E-06	2.51E-06	2.58E-06	3.05E-06	2.58E-06	Bootstrap-t	Subsurface Soil / Sediment
DIOXI	2,3,4,7,8-PENTACHLORODIBENZOFURAN	mg/Kg	33	14	42.4%	--	--	3.00E-07	1.14E-05	1.83E-06	2.58E-06	2.94E-06	2.65E-06	2.94E-06	Bootstrap-t	Subsurface Soil / Sediment
DIOXI	2,3,7,8-TETRACHLORODIBENZOFURAN	mg/Kg	33	16	48.5%	--	--	2.50E-07	5.95E-06	1.30E-06	1.80E-06	1.93E-06	2.07E-06	1.93E-06	Bootstrap-t	Subsurface Soil / Sediment
DIOXI	2,3,7,8-TETRACHLORODIBENZO-p-DIOXIN	mg/Kg	33	3	9.1%	--	--	2.10E-07	5.00E-06	6.23E-07	9.56E-07	1.35E-05	6.31E-07	5.00E-06	MAXDET	Subsurface Soil / Sediment
DIOXI	HEPTACHLORINATED DIBENZOFURANS, (TOTAL)	mg/Kg	31	25	80.6%	--	--	6.50E-07	8.67E-04	7.46E-05	1.28E-04	2.17E-04	5.73E-04	2.17E-04	Bootstrap-t	Subsurface Soil / Sediment
DIOXI	HEPTACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	mg/Kg	31	26	83.9%	--	--	5.45E-07	8.20E-04	9.06E-05	1.48E-04	1.94E-04	8.29E-04	8.20E-04	MAXDET	Subsurface Soil / Sediment
DIOXI	HEXACHLORINATED DIBENZOFURANS, (TOTAL)	mg/Kg	31	25	80.6%	--	--	1.90E-07	3.78E-04	5.16E-05	8.15E-05	1.06E-04	1.16E-03	1.06E-04	Bootstrap-t	Subsurface Soil / Sediment
DIOXI	HEXACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	mg/Kg	31	22	71.0%	--	--	1.70E-07	5.33E-05	7.13E-06	1.13E-05	1.35E-05	1.73E-05	1.35E-05	Bootstrap-t	Subsurface Soil / Sediment
DIOXI	OCTACHLORODIBENZOFURAN	mg/Kg	33	26	78.8%	--	--	5.90E-07	7.87E-04	7.10E-05	1.19E-04	1.76E-04	3.94E-04	1.76E-04	Bootstrap-t	Subsurface Soil / Sediment
DIOXI	OCTACHLORODIBENZO-p-DIOXIN	mg/Kg	33	30	90.9%	--	--	1.00E-06	4.49E-03	3.50E-04	6.14E-04	1.34E-03	2.77E-03	2.77E-03	Lognormal	Subsurface Soil / Sediment
DIOXI	PENTACHLORINATED DIBENZOFURANS, (TOTAL)	mg/Kg	31	24	77.4%	--	--	1.10E-07	2.10E-04	4.00E-05	5.81E-05	6.44E-05	8.95E-04	6.44E-05	Bootstrap-t	Subsurface Soil / Sediment
DIOXI	PENTACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	mg/Kg	31	11	35.5%	--	--	2.40E-07	8.60E-06	9.07E-07	1.41E-06	2.15E-06	1.17E-06	2.15E-06	Bootstrap-t	Subsurface Soil / Sediment
DIOXI	TETRACHLORINATED DIBENZOFURANS, (TOTAL)	mg/Kg	31	23	74.2%	--	--	8.00E-08	1.28E-04	2.27E-05	3.31E-05	3.67E-05	4.10E-04	3.67E-05	Bootstrap-t	Subsurface Soil / Sediment
DIOXI	TETRACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	mg/Kg	31	13	41.9%	--	--	3.40E-07	7.25E-06	1.14E-06	1.68E-06	2.05E-06	1.43E-06	2.05E-06	Bootstrap-t	Subsurface Soil / Sediment
DIOXI	Total TCDD-Mammal	mg/Kg	29	29	100.0%	--	--	1.00E-10	1.98E-05	3.27E-06	5.02E-06	5.73E-06	--	5.73E-06	Bootstrap-t	Subsurface Soil / Sediment
METAL	ALUMINUM	mg/Kg	9	9	100.0%	--	--	8.62E+03	1.87E+04	1.52E+04	1.71E+04	1.67E+04	--	1.71E+04	Normal	Subsurface Soil / Sediment
METAL	ARSENIC	mg/Kg	59	59	100.0%	--	--	3.00E+00	8.00E+00	5.32E+00	5.59E+00	5.59E+00	5.62E+00	5.59E+00	Bootstrap-t	Subsurface Soil / Sediment
METAL	BARIUM	mg/Kg	59	59	100.0%	--	--	3.80E+01	2.20E+02	7.39E+01	8.01E+01	8.22E+01	7.93E+01	7.93E+01	Lognormal	Subsurface Soil / Sediment
METAL	CADMIUM	mg/Kg	59	3	5.1%	--	--	2.50E-01	2.00E+00	4.75E-01	5.27E-01	5.65E-01	5.15E-01	5.65E-01	Bootstrap-t	Subsurface Soil / Sediment
METAL	CALCIUM	mg/Kg	9	9	100.0%	--	--	3.15E+03	7.22E+03	4.68E+03	5.49E+03	5.76E+03	--	5.76E+03	Bootstrap-t	Subsurface Soil / Sediment
METAL	CHROMIUM	mg/Kg	59	59	100.0%	--	--	2.00E+01	6.40E+01	3.25E+01	3.40E+01	3.43E+01	3.39E+01	3.40E+01	Normal	Subsurface Soil / Sediment
METAL	COBALT	mg/Kg	9	9	100.0%	--	--	7.00E+00	1.30E+01	1.08E+01	1.19E+01	1.17E+01	--	1.19E+01	Normal	Subsurface Soil / Sediment
METAL	COPPER	mg/Kg	9	9	100.0%	--	--	2.00E+01	3.40E+01	2.77E+01	3.08E+01	3.07E+01	--	3.08E+01	Normal	Subsurface Soil / Sediment
METAL	IRON	mg/Kg	9	9	100.0%	--	--	1.85E+04	3.09E+04	2.54E+04	2.80E+04	2.78E+04	--	2.80E+04	Normal	Subsurface Soil / Sediment
METAL	LEAD	mg/Kg	59	58	98.3%	--	--	2.00E+00	2.00E+02	2.00E+01	2.71E+01	3.35E+01	2.27E+01	3.35E+01	Bootstrap-t	Subsurface Soil / Sediment
METAL	MAGNESIUM	mg/Kg	9	9	100.0%	--	--	5.93E+03	1.03E+04	7.60E+03	8.40E+03	8.59E+03	--	8.40E+03	Normal	Subsurface Soil / Sediment
METAL	MANGANESE	mg/Kg	9	9	100.0%	--	--	3.83E+02	6.69E+02	5.30E+02	5.91E+02	5.96E+02	--	5.91E+02	Normal	Subsurface Soil / Sediment
METAL	MERCURY	mg/Kg	59	15	25.4%	--	--	2.50E-02	3.00E-01	9.73E-02	1.05E-01	1.08E-01	1.06E-01	1.08E-01	Bootstrap-t	Subsurface Soil / Sediment
METAL	NICKEL	mg/Kg	42	42	100.0%	--	--	2.30E+01	4.90E+01	3.31E+01	3.45E+01	3.46E+01	3.46E+01	3.46E+01	Bootstrap-t	Subsurface Soil / Sediment
METAL	POTASSIUM	mg/Kg	9	7	77.8%	--	--	2.00E+02	6.10E+02	4.56E+02	5.53E+02	5.34E+02	--	5.34E+02	Bootstrap-t	Subsurface Soil / Sediment
METAL	SILVER	mg/Kg	59	1	1.7%	--	--	2.00E-01	1.00E+00	7.76E-01	8.54E-01	8.46E-01	1.00E+00	8.46E-01	Bootstrap-t	Subsurface Soil / Sediment
METAL	SODIUM	mg/Kg	9	9	100.0%	--	--	6.50E+01	1.71E+02	1.19E+02	1.37E+02	1.37E+02	--	1.37E+02	Normal	Subsurface Soil / Sediment
METAL	VANADIUM	mg/Kg	9	9	100.0%	--	--	2.80E+01	6.00E+01	4.60E+01	5.15E+01	5.08E+01	--	5.15E+01	Normal	Subsurface Soil / Sediment
METAL	ZINC	mg/Kg	9	9	100.0%	--	--	4.70E+01	8.60E+01	6.29E+01	7.03E+01	7.18E+01	--	7.03E+01	Normal	Subsurface Soil / Sediment
PEST	ALDRIN	mg/Kg	76	6	7.9%	--	--	2.00E-04	5.00E-03	2.92E-03	3.36E-03	3.35E-03	6.99E-03	3.35E-03	Bootstrap-t	Subsurface Soil / Sediment
PEST	BETA BHC	mg/Kg	76	1	1.3%	--	--	1.00E-03	1.50E-02	8.70E-03	1.00E-02	9.98E-03	1.58E-02	9.98E-03	Bootstrap-t	Subsurface Soil / Sediment
PEST	DIELDRIN	mg/Kg	74	21	28.4%	--	--	1.50E-04	5.30E-02	6.71E-03	8.66E-03	9.74E-03	1.55E-02	9.74E-03	Bootstrap-t	Subsurface Soil / Sediment
PEST	ENDRIN	mg/Kg	76	1	1.3%	--	--	4.00E-04	2.00E-01	8.96E-03	1.38E-02	2.10E-02	1.38E-02	2.10E-02	Bootstrap-t	Subsurface Soil / Sediment
PEST	ENDRIN ALDEHYDE	mg/Kg	76	1	1.3%	--	--	2.50E-04	5.00E-01	1.62E-02	2.79E-02	5.16E-02	2.64E-02	5.16E-02	Bootstrap-t	Subsurface Soil / Sediment
PEST	p,p'-DDD	mg/Kg	76	20	26.3%	--	--	2.00E-04	7.40E-01	4.41E-02	6.63E-02	7.95E-02	1.38E-01	7.95E-02	Bootstrap-t	Subsurface Soil / Sediment
PEST	p,p'-DDE	mg/Kg	76	28	36.8%	--	--	1.50E-04	1.00E-01	9.72E-03	1.27E-02	1.42E-02	1.87E-02	1.42E-02	Bootstrap-t	Subsurface Soil / Sediment
PEST	p,p'-DDT	mg/Kg	69	20	29.0%	--	--	2.00E-04	3.09E-01	3.48E-02	4.76E-02	5.21E-02	1.47E-01	5.21E-02	Bootstrap-t	Subsurface Soil / Sediment
PEST	PCB-1260 (AROCHLOR 1260)	mg/Kg	158	122	77.2%	--	--	1.50E-03	9.99E+01	2.02E+00	3.20E+00	5.06E+00	3.66E+00	5.06E+00	Bootstrap-t	Subsurface Soil / Sediment
SVOC	2-METHYLNAPHTHALENE	mg/Kg	88	1	1.1%	--	--	2.25E-02	3.00E-01	9.49E-02	1.08E-01	1.08E-01	1.23E-01	1.08E-01	Bootstrap-t	Subsurface Soil / Sediment
SVOC	ACENAPHTHENE	mg/Kg	88	1	1.1%	--	--	2.00E-02	3.00E-01	9.44E-02	1.07E-01	1.08E-01	1.24E-01	1.08E-01	Bootstrap-t	Subsurface Soil / Sediment
SVOC	ACENAPHTHYLENE	mg/Kg	88	1	1.1%	--	--	1.15E-02	3.00E-01	9.40E-02	1.07E-01	1.07E-01	1.26E-01	1.07E-01	Bootstrap-t	Subsurface Soil / Sediment
SVOC	ANTHRACENE	mg/Kg	88	3	3.4%	--	--	1.80E-02	1.20E+00	1.06E-01	1.31E-01	1.47E-01	1.42E-01	1.47E-01	Bootstrap-t	Subsurface Soil / Sediment
SVOC	BENZO(a)ANTHRACENE	mg/Kg	88	9	10.2%	--	--	1.80E-02	1.00E+00	1.14E-01	1.38E-01	1.50E-01	1.58E-01	1.50E-01	Bootstrap-t	Subsurface Soil / Sediment
SVOC	BENZO(a)PYRENE	mg/Kg	88	11	12.5%	--	--	1.45E-02	7.00E-01	1.08E-01	1.26E-01	1.29E-01	1.56E-01	1.29E-01	Bootstrap-t	Subsurface Soil / Sediment
SVOC	BENZO(b)FLUORANTHENE	mg/Kg	88	13	14.8%	--	--	1.30E-02	1.40E+00	1.43E-01	1.79E-01	1.98E-01	2.08E-01	1.98E-01	Bootstrap-t	Subsurface Soil / Sediment

TABLE A-16

Summary Statistics for Constituents Detected in All Subsurface Soil

Building 35-752 Subsurface Soil

Ft. Richardson

Chemical Class	Chemical Name	Units	Number of Samples Analyzed	Number of Detects	Frequency of Detects	Minimum MDL	Maximum MDL	Minimum Detected Result	Maximum Detected Result	Average Concentration	95% UCL Normal	Bootstrap-t	95% UCL Lognormal	Exposure Point Concentration	EPC Basis	Comment
SVOC	BENZO(g,h,i)PERYLENE	mg/Kg	88	3	3.4%	--	--	1.90E-02	3.00E-01	9.80E-02	1.11E-01	1.12E-01	1.30E-01	1.12E-01	Bootstrap-t	Subsurface Soil / Sediment
SVOC	BENZO(k)FLUORANTHENE	mg/Kg	88	13	14.8%	--	--	1.70E-02	1.20E+00	1.33E-01	1.64E-01	1.78E-01	1.87E-01	1.78E-01	Bootstrap-t	Subsurface Soil / Sediment
SVOC	BENZYL BUTYL PHTHALATE	mg/Kg	87	1	1.1%	--	--	1.50E-02	3.00E-01	9.04E-02	1.03E-01	1.04E-01	1.26E-01	1.04E-01	Bootstrap-t	Subsurface Soil / Sediment
SVOC	bis(2-ETHYLHEXYL) PHTHALATE	mg/Kg	87	23	26.4%	--	--	1.65E-02	7.00E+00	2.36E-01	3.74E-01	8.60E-01	2.30E-01	8.60E-01	Bootstrap-t	Subsurface Soil / Sediment
SVOC	CHRYSENE	mg/Kg	88	14	15.9%	--	--	1.80E-02	2.40E+00	1.68E-01	2.20E-01	2.67E-01	2.34E-01	2.67E-01	Bootstrap-t	Subsurface Soil / Sediment
SVOC	DIBENZ(a,h)ANTHRACENE	mg/Kg	89	1	1.1%	--	--	1.55E-02	3.00E-01	9.08E-02	1.04E-01	1.04E-01	1.23E-01	1.04E-01	Bootstrap-t	Subsurface Soil / Sediment
SVOC	DIBENZOFURAN	mg/Kg	89	1	1.1%	--	--	1.80E-02	3.00E-01	9.48E-02	1.07E-01	1.08E-01	1.26E-01	1.08E-01	Bootstrap-t	Subsurface Soil / Sediment
SVOC	DI-n-BUTYL PHTHALATE	mg/Kg	87	11	12.6%	--	--	2.50E-02	8.00E-01	1.24E-01	1.45E-01	1.53E-01	1.59E-01	1.53E-01	Bootstrap-t	Subsurface Soil / Sediment
SVOC	DI-n-OCTYLPHTHALATE	mg/Kg	88	7	8.0%	--	--	1.60E-02	1.32E+00	1.26E-01	1.60E-01	1.83E-01	1.69E-01	1.83E-01	Bootstrap-t	Subsurface Soil / Sediment
SVOC	FLUORANTHENE	mg/Kg	89	14	15.7%	--	--	2.00E-02	5.70E+00	2.84E-01	4.22E-01	6.88E-01	3.42E-01	6.88E-01	Bootstrap-t	Subsurface Soil / Sediment
SVOC	FLUORENE	mg/Kg	89	2	2.2%	--	--	1.80E-02	3.00E-01	9.16E-02	1.04E-01	1.05E-01	1.25E-01	1.05E-01	Bootstrap-t	Subsurface Soil / Sediment
SVOC	INDENO(1,2,3-c,d)PYRENE	mg/Kg	89	5	5.6%	--	--	1.65E-02	5.00E-01	1.00E-01	1.16E-01	1.17E-01	1.40E-01	1.17E-01	Bootstrap-t	Subsurface Soil / Sediment
SVOC	PHENANTHRENE	mg/Kg	89	11	12.4%	--	--	1.80E-02	3.50E+00	1.65E-01	2.33E-01	3.55E-01	2.12E-01	3.55E-01	Bootstrap-t	Subsurface Soil / Sediment
SVOC	PYRENE	mg/Kg	89	17	19.1%	--	--	1.70E-02	5.40E+00	2.68E-01	3.98E-01	6.88E-01	3.32E-01	6.88E-01	Bootstrap-t	Subsurface Soil / Sediment
TPH	DIESEL RANGE ORGANICS	mg/Kg	107	79	73.8%	--	--	3.05E-01	2.30E+03	1.03E+02	1.50E+02	1.91E+02	1.88E+02	1.91E+02	Bootstrap-t	Subsurface Soil / Sediment
TPH	GASOLINE RANGE ORGANICS	mg/Kg	98	5	5.1%	--	--	9.00E-02	9.00E+00	2.09E+00	2.30E+00	2.33E+00	3.53E+00	2.33E+00	Bootstrap-t	Subsurface Soil / Sediment
TPH	TRIPHENYLENE	mg/Kg	42	32	76.2%	--	--	5.00E+00	1.50E+03	1.32E+02	2.02E+02	2.67E+02	2.86E+02	2.67E+02	Bootstrap-t	Subsurface Soil / Sediment
VOC	1,1,1-TRICHLOROETHANE	mg/Kg	86	3	3.5%	--	--	1.00E-03	1.20E-02	2.07E-03	2.31E-03	2.43E-03	2.26E-03	2.43E-03	Bootstrap-t	Subsurface Soil / Sediment

TABLE A-17

Summary Statistics for Constituents Detected in Subsurface Soil at BLD 35-752 Area

Building 35-752 Subsurface Soil

Ft. Richardson

Chemical Class	Chemical Name	Units	Number of Samples Analyzed	Number of Detects	Frequency of Detects	Minimum MDL	Maximum MDL	Minimum Detected Result	Maximum Detected Result	Average Concentration	95% UCL Normal	95% UCL Lognormal	Bootstrap-t	Exposure Point Concentration	EPC Basis	Comment
METAL	ARSENIC	mg/Kg	6	6	100.0%	--	--	4.00E+00	5.00E+00	4.75E+00	5.09E+00	--	4.98E+00	4.98E+00	bootstrap-t	Subsurface Soil
METAL	BARIUM	mg/Kg	6	6	100.0%	--	--	4.60E+01	9.50E+01	7.08E+01	8.73E+01	--	8.71E+01	8.71E+01	Norm	Subsurface Soil
METAL	CHROMIUM	mg/Kg	6	6	100.0%	--	--	2.50E+01	3.70E+01	3.30E+01	3.65E+01	--	3.55E+01	3.55E+01	Norm	Subsurface Soil
METAL	LEAD	mg/Kg	6	6	100.0%	--	--	5.00E+00	1.20E+01	7.58E+00	9.89E+00	--	1.34E+01	1.20E+01	MaxDet	Subsurface Soil
METAL	NICKEL	mg/Kg	6	6	100.0%	--	--	2.90E+01	4.50E+01	3.43E+01	3.92E+01	--	4.60E+01	4.50E+01	MaxDet	Subsurface Soil
PEST/	DIELDRIN	mg/Kg	16	10	62.5%	1.00E-02	1.00E-01	6.00E-04	5.30E-02	1.12E-02	1.82E-02	--	3.89E-02	3.89E-02	bootstrap-t	Subsurface Soil
PEST/	p,p'-DDD	mg/Kg	18	1	5.6%	4.00E-04	1.00E-01	3.00E-02	3.00E-02	7.63E-03	1.39E-02	--	1.91E-02	1.91E-02	bootstrap-t	Subsurface Soil
PEST/	p,p'-DDE	mg/Kg	18	10	55.6%	3.00E-04	2.00E-01	4.00E-04	4.00E-02	1.38E-02	2.43E-02	--	3.77E-02	3.77E-02	bootstrap-t	Subsurface Soil
PEST/	p,p'-DDT	mg/Kg	15	5	33.3%	4.00E-04	1.50E-01	3.00E-03	1.00E-01	1.47E-02	2.84E-02	--	1.08E-01	1.00E-01	MaxDet	Subsurface Soil
PEST/	PCB-1260 (Aroclor 1260)	mg/Kg	18	12	66.7%	3.00E-02	1.00E-01	1.30E-01	2.70E+01	2.87E+00	5.52E+00	--	1.26E+01	1.26E+01	bootstrap-t	Subsurface Soil
SVOC	CHRYSENE	mg/Kg	18	1	5.6%	4.00E-02	3.00E-01	1.00E-01	1.00E-01	6.78E-02	9.35E-02	--	9.42E-02	9.42E-02	bootstrap-t	Subsurface Soil
SVOC	FLUORANTHENE	mg/Kg	18	1	5.6%	4.00E-02	3.00E-01	1.00E-01	1.00E-01	6.78E-02	9.35E-02	--	1.01E-01	1.01E-01	bootstrap-t	Subsurface Soil
SVOC	PYRENE	mg/Kg	18	1	5.6%	4.00E-02	3.00E-01	1.00E-01	1.00E-01	6.78E-02	9.35E-02	--	9.42E-02	9.42E-02	bootstrap-t	Subsurface Soil
VOC	1,1,1-TRICHLOROETHANE	mg/Kg	18	2	11.1%	2.00E-03	5.00E-03	3.50E-03	5.00E-03	1.86E-03	2.33E-03	--	2.43E-03	2.43E-03	bootstrap-t	Subsurface Soil
VOC	1,2,4-TRIMETHYLBENZENE	mg/Kg	18	1	5.6%	7.00E-04	2.00E-02	3.35E-02	3.35E-02	4.87E-03	8.31E-03	--	1.15E-02	1.15E-02	bootstrap-t	Subsurface Soil
VOC	1,2-DICHLOROBENZENE	mg/Kg	30	1	3.3%	8.00E-04	2.50E-02	5.00E+00	5.00E+00	1.71E-01	4.54E-01	9.80E-02	3.33E+01	5.00E+00	MaxDet	Subsurface Soil
VOC	1,3-DICHLOROBENZENE	mg/Kg	30	1	3.3%	8.00E-04	2.50E-02	9.80E-01	9.80E-01	3.74E-02	9.26E-02	2.47E-03	1.32E+00	9.80E-01	MaxDet	Subsurface Soil
VOC	ACETONE	mg/Kg	18	1	5.6%	3.00E-02	5.00E-02	5.65E-01	5.65E-01	4.83E-02	1.01E-01	--	1.11E+00	5.65E-01	MaxDet	Subsurface Soil
VOC	CHLOROBENZENE	mg/Kg	30	1	3.3%	2.00E-03	1.20E-02	5.00E-01	5.00E-01	1.96E-02	4.77E-02	2.47E-03	8.34E-01	5.00E-01	MaxDet	Subsurface Soil
VOC	ETHYLBENZENE	mg/Kg	30	1	3.3%	2.00E-03	1.20E-02	3.00E-01	3.00E-01	1.29E-02	2.97E-02	9.48E-03	3.06E-01	3.00E-01	MaxDet	Subsurface Soil
VOC	METHYL ETHYL KETONE (2-BUTANONE)	mg/Kg	18	1	5.6%	3.00E-03	2.00E-02	1.05E-01	1.05E-01	9.61E-03	1.95E-02	--	5.91E-02	5.91E-02	bootstrap-t	Subsurface Soil
VOC	METHYLENE CHLORIDE	mg/Kg	18	7	38.9%	3.00E-03	1.00E-02	8.00E-03	4.00E-02	8.00E-03	1.19E-02	--	1.56E-02	1.56E-02	bootstrap-t	Subsurface Soil
VOC	M-XYLENE (1,3-DIMETHYLBENZENE)	mg/Kg	12	1	8.3%	1.00E-02	1.20E-02	1.60E+00	1.60E+00	1.38E-01	3.77E-01	--	2.38E+02	1.60E+00	MaxDet	Subsurface Soil
VOC	TETRACHLOROETHYLENE (PCE)	mg/Kg	18	1	5.6%	9.00E-04	5.00E-03	5.00E-03	5.00E-03	1.39E-03	1.93E-03	--	2.12E-03	2.12E-03	bootstrap-t	Subsurface Soil
VOC	TOLUENE	mg/Kg	30	5	16.7%	2.00E-03	1.20E-02	7.00E-03	7.70E-01	3.04E-02	7.38E-02	2.09E-02	9.19E-01	7.70E-01	MaxDet	Subsurface Soil
VOC	TRICHLOROETHYLENE (TCE)	mg/Kg	18	4	22.2%	1.00E-03	5.00E-03	2.00E-03	5.30E-02	5.08E-03	1.02E-02	--	3.79E-02	3.79E-02	bootstrap-t	Subsurface Soil
VOC	XYLENES, o & p	mg/Kg	12	1	8.3%	1.00E-02	1.20E-02	2.30E-01	2.30E-01	2.42E-02	5.78E-02	--	4.73E+00	2.30E-01	MaxDet	Subsurface Soil
VOC	XYLENES, TOTAL	mg/Kg	18	3	16.7%	3.00E-03	5.00E-03	3.00E-03	1.35E-02	2.83E-03	4.09E-03	--	8.92E-03	8.92E-03	bootstrap-t	Subsurface Soil

Notes:

PCB - polychlorinated biphenyl
PEST - pesticide
VOC = volatile organic compound
SVOC = semivolatile organic compound
mg/kg = milligrams per kilogram
MDL - method detection limit

TABLE A-18

Summary Statistics for Constituents Detected in Subsurface Soil at Burn Pit Area

Building 35-752 Subsurface Soil

Ft. Richardson

Chemical Class	Chemical Name	Units	Number of Samples Analyzed	Number of Detects	Frequency of Detects	Minimum MDL	Maximum MDL	Minimum Detected Result	Maximum Detected Result	Average Concentration	95% UCL Normal	95% UCL Lognormal	Bootstrap-t	Exposure Point Concentration	EPC Basis	Comment
DIOXI	1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	mg/Kg	15	9	60.0%	1.96E-06	1.99E-06	1.40E-07	8.70E-06	2.17E-06	3.44E-06	--	4.19E-06	4.19E-06	bootstrap-t	Subsurface Soil
DIOXI	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN	mg/Kg	15	13	86.7%	1.09E-06	1.09E-06	5.30E-07	6.50E-06	1.94E-06	2.79E-06	--	3.22E-06	3.22E-06	bootstrap-t	Subsurface Soil
DIOXI	1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	mg/Kg	15	4	26.7%	1.66E-06	1.70E-06	7.00E-07	5.00E-06	1.29E-06	1.85E-06	--	1.65E-05	5.00E-06	MaxDet	Subsurface Soil
DIOXI	1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	mg/Kg	15	10	66.7%	7.40E-07	7.50E-07	1.00E-07	9.10E-06	1.90E-06	3.33E-06	--	4.77E-06	4.77E-06	bootstrap-t	Subsurface Soil
DIOXI	1,2,3,4,7,8-HEXACHLORODIBENZO-p-DIOXIN	mg/Kg	15	1	6.7%	9.20E-07	9.40E-07	5.60E-07	5.60E-07	4.71E-07	4.83E-07	--	5.25E-07	5.25E-07	bootstrap-t	Subsurface Soil
DIOXI	1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	mg/Kg	15	6	40.0%	9.70E-07	1.00E-06	1.30E-07	1.20E-06	5.56E-07	6.79E-07	--	7.67E-07	7.67E-07	bootstrap-t	Subsurface Soil
DIOXI	1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	mg/Kg	15	2	13.3%	1.46E-06	1.50E-06	1.20E-07	8.80E-07	7.10E-07	7.86E-07	--	7.62E-07	7.62E-07	bootstrap-t	Subsurface Soil
DIOXI	1,2,3,7,8,9-HEXACHLORODIBENZOFURAN	mg/Kg	15	1	6.7%	3.80E-07	3.90E-07	6.20E-07	6.20E-07	2.22E-07	2.72E-07	--	1.69E-06	6.20E-07	MaxDet	Subsurface Soil
DIOXI	1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	mg/Kg	15	2	13.3%	1.36E-06	1.40E-06	2.40E-07	7.20E-07	6.64E-07	7.17E-07	--	7.01E-07	7.01E-07	bootstrap-t	Subsurface Soil
DIOXI	1,2,3,7,8-PENTACHLORODIBENZOFURAN	mg/Kg	15	2	13.3%	9.30E-07	9.50E-07	4.20E-07	1.90E-06	5.62E-07	7.31E-07	--	1.02E-05	1.90E-06	MaxDet	Subsurface Soil
DIOXI	1,2,3,7,8-PENTACHLORODIBENZO-p-DIOXIN	mg/Kg	15	1	6.7%	4.80E-07	4.90E-07	6.30E-07	6.30E-07	2.69E-07	3.14E-07	--	1.48E-06	6.30E-07	MaxDet	Subsurface Soil
DIOXI	2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	mg/Kg	15	5	33.3%	2.83E-06	2.89E-06	1.40E-07	4.00E-06	1.33E-06	1.73E-06	--	1.85E-06	1.85E-06	bootstrap-t	Subsurface Soil
DIOXI	2,3,4,7,8-PENTACHLORODIBENZOFURAN	mg/Kg	15	4	26.7%	9.70E-07	1.00E-06	4.10E-07	6.90E-06	9.13E-07	1.67E-06	--	4.82E-05	6.90E-06	MaxDet	Subsurface Soil
DIOXI	2,3,7,8-TETRACHLORODIBENZOFURAN	mg/Kg	15	3	20.0%	5.00E-07	5.10E-07	3.50E-07	4.00E-06	5.17E-07	9.56E-07	--	1.04E-05	4.00E-06	MaxDet	Subsurface Soil
DIOXI	OCTACHLORODIBENZOFURAN	mg/Kg	15	9	60.0%	4.27E-06	4.29E-06	5.90E-07	2.18E-05	4.22E-06	7.12E-06	--	1.93E-05	1.93E-05	bootstrap-t	Subsurface Soil
DIOXI	OCTACHLORODIBENZO-p-DIOXIN	mg/Kg	15	13	86.7%	2.59E-06	2.59E-06	2.60E-06	5.21E-05	1.46E-05	2.11E-05	--	2.44E-05	2.44E-05	bootstrap-t	Subsurface Soil
DIOXI	Total TCDD-Mammal	mg/Kg	13	13	100.0%	--	--	1.20E-08	5.43E-06	7.66E-07	1.51E-06	--	2.84E-06	2.84E-06	bootstrap-t	Subsurface Soil
PEST/	PCB-1260 (Aroclor 1260)	mg/Kg	15	9	60.0%	3.00E-03	1.70E+00	1.30E-02	6.90E-01	1.24E-01	2.45E-01	--	1.23E+00	8.50E-01	MaxDet	Subsurface Soil
SVOC	BENZYL BUTYL PHTHALATE	mg/Kg	15	1	6.7%	3.00E-02	1.20E-01	3.90E-02	3.90E-02	2.01E-02	2.58E-02	--	8.08E-02	6.00E-02	MaxDet	Subsurface Soil
SVOC	bis(2-ETHYLHEXYL) PHTHALATE	mg/Kg	15	6	40.0%	3.30E-02	1.40E-01	4.30E-02	1.10E+00	1.07E-01	2.32E-01	--	1.17E+00	1.10E+00	MaxDet	Subsurface Soil
SVOC	DI-n-BUTYL PHTHALATE	mg/Kg	15	14	93.3%	1.70E-01	1.70E-01	4.40E-02	8.00E-01	2.00E-01	3.06E-01	--	4.39E-01	4.39E-01	bootstrap-t	Subsurface Soil
SVOC	DI-n-OCTYLPHTHALATE	mg/Kg	15	1	6.7%	3.20E-02	1.30E-01	5.40E-02	5.40E-02	2.26E-02	2.95E-02	--	1.07E-01	6.50E-02	MaxDet	Subsurface Soil
SVOC	PYRENE	mg/Kg	15	1	6.7%	3.40E-02	1.40E-01	4.00E-02	4.00E-02	2.27E-02	2.92E-02	--	9.05E-02	7.00E-02	MaxDet	Subsurface Soil
VOC	1,1,1-TRICHLOROETHANE	mg/Kg	15	1	6.7%	2.00E-03	5.90E-03	1.20E-02	1.20E-02	2.21E-03	3.47E-03	--	7.76E-03	7.76E-03	bootstrap-t	Subsurface Soil
VOC	1,2,4-TRICHLOROBENZENE	mg/Kg	15	1	6.7%	1.00E-03	3.10E-03	2.40E-01	2.40E-01	1.67E-02	4.48E-02	--	4.34E+00	2.40E-01	MaxDet	Subsurface Soil
VOC	ACETONE	mg/Kg	15	5	33.3%	1.00E-02	3.10E-02	1.40E-02	3.50E-02	1.29E-02	1.67E-02	--	1.82E-02	1.82E-02	bootstrap-t	Subsurface Soil
VOC	cis-1,2-DICHLOROETHYLENE	mg/Kg	15	7	46.7%	2.20E-03	6.40E-03	9.40E-03	8.70E-01	6.93E-02	1.70E-01	--	1.29E+00	8.70E-01	MaxDet	Subsurface Soil
VOC	METHYL ETHYL KETONE (2-BUTANONE)	mg/Kg	15	5	33.3%	4.70E-03	1.20E-02	1.60E-02	1.20E-01	2.00E-02	3.47E-02	--	5.04E-02	5.04E-02	bootstrap-t	Subsurface Soil
VOC	METHYLENE CHLORIDE	mg/Kg	15	15	100.0%	--	--	1.60E-02	7.20E-02	4.04E-02	4.90E-02	--	5.00E-02	4.90E-02	Norm	
VOC	P-CYMENE (p-ISOPROPYLTOLUENE)	mg/Kg	15	1	6.7%	9.50E-04	2.80E-03	4.70E-03	4.70E-03	9.83E-04	1.47E-03	--	2.74E-03	2.74E-03	bootstrap-t	
VOC	TOLUENE	mg/Kg	15	3	20.0%	2.20E-03	6.40E-03	4.70E-03	9.10E-03	2.60E-03	3.60E-03	--	4.49E-03	4.49E-03	bootstrap-t	
VOC	trans-1,2-DICHLOROETHENE	mg/Kg	15	1	6.7%	3.20E-03	9.50E-03	7.10E-02	7.10E-02	6.84E-03	1.49E-02	--	2.23E-01	7.10E-02	MaxDet	
VOC	TRICHLOROETHYLENE (TCE)	mg/Kg	15	9	60.0%	2.20E-03	6.70E-03	2.80E-02	1.10E+00	2.39E-01	3.99E-01	--	5.58E-01	5.58E-01	bootstrap-t	
VOC	XYLENES, m & p	mg/Kg	15	5	33.3%	1.30E-03	3.40E-03	4.80E-03	1.40E-02	3.30E-03	5.16E-03	--	6.46E-03	6.46E-03	bootstrap-t	

Notes:

PCB - polychlorinated biphenyl
PEST - pesticide
VOC = volatile organic compound
SVOC = semivolatile organic compound
mg/kg = milligrams per kilogram
MDL - method detection limit

TABLE A-19

Summary Statistics for Constituents Detected in Subsurface Soil at Cooling Pond Area

Building 35-752 Subsurface Soil

Ft. Richardson

Chemical Class	Chemical Name	Units	Number of Samples Analyzed	Number of Detects	Frequency of Detects	Minimum MDL	Maximum MDL	Minimum Detected Result	Maximum Detected Result	Average Concentration	95% UCL Normal	Bootstrap-t	95% UCL Lognormal	Exposure Point Concentration	EPC Basis	Comment
METAL	ARSENIC	mg/Kg	22	22	100.0%	--	--	3.00E+00	7.00E+00	4.64E+00	5.02E+00	5.04E+00	--	5.02E+00	Normal	Subsurface Soil / Sediment
METAL	BARIUM	mg/Kg	22	22	100.0%	--	--	3.80E+01	1.36E+02	7.10E+01	8.05E+01	8.27E+01	--	8.27E+01	Bootstrap-t	Subsurface Soil / Sediment
METAL	CADMIUM	mg/Kg	22	3	13.6%	--	--	2.50E-01	2.00E+00	4.32E-01	5.77E-01	8.25E-01	--	8.25E-01	Bootstrap-t	Subsurface Soil / Sediment
METAL	CHROMIUM, TOTAL	mg/Kg	22	22	100.0%	--	--	2.10E+01	6.40E+01	3.49E+01	3.83E+01	3.98E+01	--	3.98E+01	Bootstrap-t	Subsurface Soil / Sediment
METAL	LEAD	mg/Kg	22	21	95.5%	--	--	2.00E+00	2.00E+02	3.36E+01	5.08E+01	7.41E+01	--	7.41E+01	Bootstrap-t	Subsurface Soil / Sediment
METAL	MERCURY	mg/Kg	22	15	68.2%	--	--	2.50E-02	3.00E-01	9.27E-02	1.14E-01	1.31E-01	--	1.31E-01	Bootstrap-t	Subsurface Soil / Sediment
METAL	NICKEL	mg/Kg	5	5	100.0%	--	--	3.30E+01	4.40E+01	3.77E+01	4.21E+01	4.24E+01	--	4.21E+01	Normal	Subsurface Soil / Sediment
METAL	SILVER	mg/Kg	22	1	4.5%	--	--	2.00E-01	1.00E+00	4.00E-01	5.26E-01	5.53E-01	--	5.53E-01	Bootstrap-t	Subsurface Soil / Sediment
PEST/	ALDRIN	mg/Kg	23	6	26.1%	--	--	2.00E-04	5.00E-03	1.47E-03	2.13E-03	2.30E-03	--	2.30E-03	Bootstrap-t	Subsurface Soil / Sediment
PEST/	BETA BHC	mg/Kg	23	1	4.3%	--	--	1.00E-03	1.50E-02	3.93E-03	5.83E-03	6.77E-03	--	6.77E-03	Bootstrap-t	Subsurface Soil / Sediment
PEST/	DIELDRIN	mg/Kg	23	9	39.1%	--	--	1.50E-04	1.50E-02	3.57E-03	5.00E-03	5.26E-03	--	5.26E-03	Bootstrap-t	Subsurface Soil / Sediment
PEST/	ENDRIN	mg/Kg	23	1	4.3%	--	--	4.00E-04	3.40E-02	3.25E-03	5.92E-03	1.34E-02	--	1.34E-02	Bootstrap-t	Subsurface Soil / Sediment
PEST/	ENDRIN ALDEHYDE	mg/Kg	23	1	4.3%	--	--	2.50E-04	1.50E-01	7.62E-03	1.87E-02	1.80E-01	--	1.50E-01	MAXDET	Subsurface Soil / Sediment
PEST/	p,p'-DDD	mg/Kg	23	19	82.6%	--	--	6.00E-04	7.40E-01	1.28E-01	1.96E-01	2.27E-01	--	2.27E-01	Bootstrap-t	Subsurface Soil / Sediment
PEST/	p,p'-DDE	mg/Kg	23	15	65.2%	--	--	1.50E-04	5.00E-02	9.28E-03	1.37E-02	1.62E-02	--	1.62E-02	Bootstrap-t	Subsurface Soil / Sediment
PEST/	p,p'-DDT	mg/Kg	20	12	60.0%	--	--	2.00E-04	3.09E-01	7.19E-02	1.07E-01	1.20E-01	--	1.20E-01	Bootstrap-t	Subsurface Soil / Sediment
PEST/	PCB-1260 (AROCHLOR 1260)	mg/Kg	23	18	78.3%	--	--	1.50E-02	1.86E+01	1.51E+00	2.88E+00	7.17E+00	--	7.17E+00	Bootstrap-t	Subsurface Soil / Sediment
SVOC	2-METHYLNAPHTHALENE	mg/Kg	23	1	4.3%	--	--	2.50E-02	2.50E-01	7.18E-02	9.42E-02	1.00E-01	--	1.00E-01	Bootstrap-t	Subsurface Soil / Sediment
SVOC	ACENAPHTHENE	mg/Kg	23	1	4.3%	--	--	2.25E-02	2.50E-01	7.16E-02	9.41E-02	9.93E-02	--	9.93E-02	Bootstrap-t	Subsurface Soil / Sediment
SVOC	ACENAPHTHYLENE	mg/Kg	23	1	4.3%	--	--	1.15E-02	2.50E-01	7.12E-02	9.38E-02	9.92E-02	--	9.92E-02	Bootstrap-t	Subsurface Soil / Sediment
SVOC	ANTHRACENE	mg/Kg	23	3	13.0%	--	--	2.00E-02	1.20E+00	1.22E-01	2.10E-01	3.95E-01	--	3.95E-01	Bootstrap-t	Subsurface Soil / Sediment
SVOC	BENZO(a)ANTHRACENE	mg/Kg	23	9	39.1%	--	--	2.00E-02	1.00E+00	1.53E-01	2.33E-01	3.57E-01	--	3.57E-01	Bootstrap-t	Subsurface Soil / Sediment
SVOC	BENZO(a)PYRENE	mg/Kg	23	9	39.1%	--	--	2.00E-02	7.00E-01	1.17E-01	1.68E-01	2.13E-01	--	2.13E-01	Bootstrap-t	Subsurface Soil / Sediment
SVOC	BENZO(b)FLUORANTHENE	mg/Kg	23	10	43.5%	--	--	2.00E-02	1.40E+00	1.85E-01	2.88E-01	4.43E-01	--	4.43E-01	Bootstrap-t	Subsurface Soil / Sediment
SVOC	BENZO(g,h,i)PERYLENE	mg/Kg	23	3	13.0%	--	--	2.50E-02	3.00E-01	8.58E-02	1.15E-01	1.23E-01	--	1.23E-01	Bootstrap-t	Subsurface Soil / Sediment
SVOC	BENZO(k)FLUORANTHENE	mg/Kg	23	10	43.5%	--	--	2.00E-02	1.20E+00	1.62E-01	2.49E-01	3.87E-01	--	3.87E-01	Bootstrap-t	Subsurface Soil / Sediment
SVOC	bis(2-ETHYLHEXYL) PHTHALATE	mg/Kg	22	13	59.1%	--	--	2.50E-02	7.00E+00	5.39E-01	1.09E+00	6.60E+00	--	6.60E+00	Bootstrap-t	Subsurface Soil / Sediment
SVOC	CHRYSENE	mg/Kg	23	10	43.5%	--	--	2.00E-02	2.40E+00	2.89E-01	4.70E-01	8.27E-01	--	8.27E-01	Bootstrap-t	Subsurface Soil / Sediment
SVOC	DIBENZ(a,h)ANTHRACENE	mg/Kg	24	1	4.2%	--	--	1.55E-02	2.00E-01	6.25E-02	8.35E-02	8.81E-02	--	8.81E-02	Bootstrap-t	Subsurface Soil / Sediment
SVOC	DIBENZOFURAN	mg/Kg	24	1	4.2%	--	--	2.50E-02	2.50E-01	7.51E-02	9.72E-02	1.01E-01	--	1.01E-01	Bootstrap-t	Subsurface Soil / Sediment
SVOC	FLUORANTHENE	mg/Kg	24	11	45.8%	--	--	2.00E-02	5.70E+00	7.26E-01	1.22E+00	2.20E+00	--	2.20E+00	Bootstrap-t	Subsurface Soil / Sediment
SVOC	FLUORENE	mg/Kg	24	2	8.3%	--	--	2.00E-02	2.00E-01	6.68E-02	8.74E-02	9.11E-02	--	9.11E-02	Bootstrap-t	Subsurface Soil / Sediment
SVOC	INDENO(1,2,3-c,d)PYRENE	mg/Kg	24	4	16.7%	--	--	2.00E-02	5.00E-01	9.28E-02	1.33E-01	1.58E-01	--	1.58E-01	Bootstrap-t	Subsurface Soil / Sediment
SVOC	PHENANTHRENE	mg/Kg	24	11	45.8%	--	--	2.00E-02	3.50E+00	3.39E-01	5.87E-01	1.18E+00	--	1.18E+00	Bootstrap-t	Subsurface Soil / Sediment
SVOC	PYRENE	mg/Kg	24	13	54.2%	--	--	2.00E-02	5.40E+00	6.74E-01	1.14E+00	2.52E+00	--	2.52E+00	Bootstrap-t	Subsurface Soil / Sediment
TPH	DIESEL RANGE ORGANICS	mg/Kg	22	19	86.4%	--	--	1.50E+00	2.30E+03	3.21E+02	5.30E+02	8.18E+02	--	8.18E+02	Bootstrap-t	Subsurface Soil / Sediment
TPH	TRIPHENYLENE	mg/Kg	5	4	80.0%	--	--	5.00E+00	2.60E+02	9.68E+01	1.97E+02	3.32E+02	--	1.97E+02	Normal	Subsurface Soil / Sediment
VOC	1,2,4-TRIMETHYLBENZENE	mg/Kg	21	1	4.8%	--	--	3.50E-04	1.00E-02	2.42E-03	3.84E-03	4.82E-03	--	4.82E-03	Bootstrap-t	Subsurface Soil / Sediment
VOC	(MESITYLENE)	mg/Kg	21	3	14.3%	--	--	4.00E-04	1.00E-02	2.64E-03	4.05E-03	4.73E-03	--	4.73E-03	Bootstrap-t	Subsurface Soil / Sediment
VOC	1,4-DICHLOROBENZENE	mg/Kg	22	1	4.5%	--	--	3.00E-04	2.50E-02	2.22E-03	4.17E-03	1.22E-02	--	1.22E-02	Bootstrap-t	Subsurface Soil / Sediment
VOC	2-CHLOROTOLUENE	mg/Kg	21	2	9.5%	--	--	5.00E-04	1.00E-02	3.19E-03	4.75E-03	5.08E-03	--	5.08E-03	Bootstrap-t	Subsurface Soil / Sediment
VOC	ACETONE	mg/Kg	21	10	47.6%	--	--	1.50E-02	3.50E-01	7.63E-02	1.09E-01	1.27E-01	--	1.27E-01	Bootstrap-t	Subsurface Soil / Sediment
VOC	METHYL ETHYL KETONE (2-BUTANONE)	mg/Kg	21	9	42.9%	--	--	1.50E-03	7.50E-02	1.50E-02	2.25E-02	2.70E-02	--	2.70E-02	Bootstrap-t	Subsurface Soil / Sediment
VOC	NAPHTHALENE	mg/Kg	23	3	13.0%	--	--	3.50E-04	3.05E-02	4.88E-03	8.02E-03	1.11E-02	--	1.11E-02	Bootstrap-t	Subsurface Soil / Sediment
VOC	n-PROPYLBENZENE	mg/Kg	21	2	9.5%	--	--	3.50E-04	1.80E-01	1.23E-02	2.70E-02	1.14E-01	--	1.14E-01	Bootstrap-t	Subsurface Soil / Sediment
VOC	P-CYMENE (p-ISOPROPYLTOLUENE)	mg/Kg	21	1	4.8%	--	--	3.00E-04	1.30E-01	8.52E-03	1.91E-02	7.79E-02	--	7.79E-02	Bootstrap-t	Subsurface Soil / Sediment
VOC	TRICHLOROETHYLENE (TCE)	mg/Kg	21	1	4.8%	--	--	5.00E-04	2.50E-03	1.07E-03	1.36E-03	1.45E-03	--	1.45E-03	Bootstrap-t	Subsurface Soil / Sediment

Notes:

PCB - polychlorinated biphenyl
PEST - pesticide
VOC = volatile organic compound
SVOC = semivolatile organic compound
mg/kg = milligrams per kilogram
MDL - method detection limit

TABLE A-20

Summary Statistics for Constituents Detected in Subsurface Soil at Former Drum

Building 35-752 Subsurface Soil

Ft. Richardson

Chemical Class	Chemical Name	Units	Number of Samples Analyzed	Number of Detects	Frequency of Detects	Minimum MDL	Maximum MDL	Minimum Detected Result	Maximum Detected Result	Average Concentration	95% UCL Normal	95% UCL Lognormal	Bootstrap-t	Exposure Point Concentration	EPC Basis	Comment
METAL	ALUMINUM	mg/Kg	9	9	100.0%	--	--	8.62E+03	1.87E+04	1.52E+04	1.71E+04	--	1.67E+04	1.67E+04	bootstrap-t	Subsurface Soil
METAL	ARSENIC	mg/Kg	22	22	100.0%	--	--	4.00E+00	8.00E+00	6.18E+00	6.61E+00	--	6.59E+00	6.59E+00	bootstrap-t	Subsurface Soil
METAL	BARIUM	mg/Kg	22	22	100.0%	--	--	4.40E+01	2.20E+02	8.07E+01	9.39E+01	--	1.03E+02	1.03E+02	bootstrap-t	Subsurface Soil
METAL	CHROMIUM	mg/Kg	22	22	100.0%	--	--	2.30E+01	4.00E+01	3.12E+01	3.28E+01	--	3.28E+01	3.28E+01	Norm	Subsurface Soil
METAL	COBALT	mg/Kg	9	9	100.0%	--	--	7.00E+00	1.30E+01	1.08E+01	1.19E+01	--	1.17E+01	1.19E+01	Norm	Subsurface Soil
METAL	COPPER	mg/Kg	9	9	100.0%	--	--	2.00E+01	3.40E+01	2.77E+01	3.08E+01	--	3.05E+01	3.08E+01	Norm	Subsurface Soil
METAL	IRON	mg/Kg	9	9	100.0%	--	--	1.85E+04	3.09E+04	2.54E+04	2.80E+04	--	2.78E+04	2.80E+04	Norm	Subsurface Soil
METAL	LEAD	mg/Kg	22	22	100.0%	--	--	4.00E+00	3.60E+01	1.10E+01	1.37E+01	--	1.52E+01	1.52E+01	bootstrap-t	Subsurface Soil
METAL	MANGANESE	mg/Kg	9	9	100.0%	--	--	3.83E+02	6.69E+02	5.30E+02	5.91E+02	--	5.94E+02	5.91E+02	Norm	Subsurface Soil
METAL	NICKEL	mg/Kg	22	22	100.0%	--	--	2.30E+01	4.90E+01	3.31E+01	3.53E+01	--	3.57E+01	3.53E+01	Norm	Subsurface Soil
METAL	VANADIUM	mg/Kg	9	9	100.0%	--	--	2.80E+01	6.00E+01	4.60E+01	5.15E+01	--	5.06E+01	5.15E+01	Norm	Subsurface Soil
METAL	ZINC	mg/Kg	9	9	100.0%	--	--	4.70E+01	8.60E+01	6.29E+01	7.03E+01	--	7.16E+01	7.03E+01	Norm	Subsurface Soil
PEST/	DIELDRIN	mg/Kg	24	1	4.2%	3.00E-04	1.00E-01	5.00E-03	5.00E-03	7.92E-03	1.16E-02	--	3.03E-02	3.03E-02	bootstrap-t	Subsurface Soil
PEST/	p,p'-DDD	mg/Kg	24	1	4.2%	4.00E-04	1.00E-01	1.00E-02	1.00E-02	8.77E-03	1.28E-02	--	1.57E-02	1.57E-02	bootstrap-t	Subsurface Soil
PEST/	p,p'-DDE	mg/Kg	24	1	4.2%	3.00E-04	1.00E-01	3.00E-03	3.00E-03	8.88E-03	1.30E-02	--	1.62E-02	1.62E-02	bootstrap-t	Subsurface Soil
PEST/	p,p'-DDT	mg/Kg	24	2	8.3%	4.00E-04	5.00E-01	2.00E-02	1.20E-01	2.66E-02	4.55E-02	--	9.05E-02	9.05E-02	bootstrap-t	Subsurface Soil
PEST/	PCB-1260 (Aroclor 1260)	mg/Kg	24	12	50.0%	3.00E-02	1.00E-01	3.00E-01	1.56E+01	1.25E+00	2.36E+00	--	5.50E+00	5.50E+00	bootstrap-t	Subsurface Soil
SVOC	BENZO(a)PYRENE	mg/Kg	24	2	8.3%	4.00E-02	6.00E-01	3.00E-01	3.10E-01	1.69E-01	1.95E-01	--	1.98E-01	1.98E-01	bootstrap-t	Subsurface Soil
SVOC	BENZO(b)FLUORANTHENE	mg/Kg	24	3	12.5%	4.00E-02	6.00E-01	7.00E-01	9.30E-01	2.32E-01	3.13E-01	--	3.58E-01	3.58E-01	bootstrap-t	Subsurface Soil
SVOC	BENZO(k)FLUORANTHENE	mg/Kg	24	3	12.5%	4.00E-02	6.00E-01	6.50E-01	7.00E-01	2.16E-01	2.82E-01	--	3.07E-01	3.07E-01	bootstrap-t	Subsurface Soil
SVOC	bis(2-ETHYLHEXYL) PHTHALATE	mg/Kg	24	2	8.3%	5.00E-02	6.00E-01	1.00E-01	7.98E-01	1.80E-01	2.29E-01	--	3.41E-01	3.41E-01	bootstrap-t	Subsurface Soil
SVOC	CHRYSENE	mg/Kg	24	3	12.5%	4.00E-02	6.00E-01	3.00E-01	8.50E-01	2.18E-01	2.88E-01	--	3.87E-01	3.87E-01	bootstrap-t	Subsurface Soil
SVOC	DI-n-OCTYLPHTHALATE	mg/Kg	24	4	16.7%	4.00E-02	6.00E-01	3.60E-01	1.32E+00	2.52E-01	3.55E-01	--	5.56E-01	5.56E-01	bootstrap-t	Subsurface Soil
SVOC	FLUORANTHENE	mg/Kg	24	2	8.3%	4.00E-02	6.00E-01	7.30E-01	8.00E-01	2.07E-01	2.71E-01	--	3.78E-01	3.78E-01	bootstrap-t	Subsurface Soil
SVOC	INDENO(1,2,3-c,d)PYRENE	mg/Kg	24	1	4.2%	4.00E-02	6.00E-01	3.00E-01	3.00E-01	1.62E-01	1.86E-01	--	1.89E-01	1.89E-01	bootstrap-t	Subsurface Soil
SVOC	PYRENE	mg/Kg	24	2	8.3%	4.00E-02	6.00E-01	6.90E-01	7.00E-01	2.01E-01	2.59E-01	--	3.28E-01	3.28E-01	bootstrap-t	Subsurface Soil
VOC	1,2,4-TRIMETHYLBENZENE	mg/Kg	24	1	4.2%	7.00E-04	2.00E-02	2.30E-02	2.30E-02	9.74E-03	1.11E-02	--	1.14E-02	1.14E-02	bootstrap-t	Subsurface Soil
VOC	ETHYLBENZENE	mg/Kg	24	1	4.2%	2.00E-03	5.00E-03	6.00E-03	6.00E-03	2.52E-03	2.82E-03	--	2.98E-03	2.98E-03	bootstrap-t	Subsurface Soil
VOC	TOLUENE	mg/Kg	24	5	20.8%	2.00E-03	5.00E-03	5.00E-03	8.00E-03	3.10E-03	3.68E-03	--	3.90E-03	3.90E-03	bootstrap-t	Subsurface Soil
VOC	TRICHLOROETHYLENE (TCE)	mg/Kg	24	3	12.5%	1.00E-03	5.00E-03	2.00E-03	1.00E-02	2.85E-03	3.46E-03	--	4.82E-03	4.82E-03	bootstrap-t	Subsurface Soil
VOC	XYLENES, TOTAL	mg/Kg	24	6	25.0%	3.00E-03	5.00E-03	6.00E-03	3.80E-02	4.79E-03	7.36E-03	--	1.42E-02	1.42E-02	bootstrap-t	Subsurface Soil

Notes:

PCB - polychlorinated biphenyl
PEST - pesticide
VOC = volatile organic compound
SVOC = semivolatile organic compound
mg/kg = milligrams per kilogram
MDL - method detection limit

TABLE A-21

Summary Statistics for Constituents Detected in Subsurface Soil at Former Tank Location

Building 35-752 Subsurface Soil

Ft. Richardson

Chemical Class	Chemical Name	Units	Number of Samples Analyzed	Number of Detects	Frequency of Detects	Minimum MDL	Maximum MDL	Minimum Detected Result	Maximum Detected Result	Average Concentration	95% UCL Normal	95% UCL Lognormal	Bootstrap-t	Exposure Point Concentration	EPC Basis	Comment
METAL	ARSENIC	mg/Kg	11	11	100.0%	--	--	4.00E+00	6.00E+00	5.14E+00	5.52E+00	--	5.51E+00	5.52E+00	Norm	Subsurface Soil
METAL	BARIUM	mg/Kg	11	11	100.0%	--	--	4.40E+01	9.40E+01	6.41E+01	7.30E+01	--	7.59E+01	7.30E+01	Norm	Subsurface Soil
METAL	CHROMIUM	mg/Kg	11	11	100.0%	--	--	2.00E+01	4.20E+01	3.00E+01	3.30E+01	--	3.35E+01	3.30E+01	Norm	Subsurface Soil
METAL	LEAD	mg/Kg	11	11	100.0%	--	--	5.00E+00	9.40E+01	1.52E+01	2.97E+01	--	2.95E+02	9.40E+01	MaxDet	Subsurface Soil
METAL	NICKEL	mg/Kg	11	11	100.0%	--	--	2.40E+01	3.70E+01	3.13E+01	3.34E+01	--	3.33E+01	3.34E+01	Norm	Subsurface Soil
PEST/	DIELDRIN	mg/Kg	13	1	7.7%	3.00E-04	1.00E-02	6.00E-04	6.00E-04	4.29E-03	5.15E-03	--	4.86E-03	4.86E-03	Bootstrap-t	Subsurface Soil
PEST/	p,p'-DDE	mg/Kg	13	2	15.4%	1.00E-02	3.00E-02	4.00E-04	8.00E-03	5.65E-03	7.24E-03	--	8.17E-03	8.17E-03	Bootstrap-t	Subsurface Soil
PEST/	p,p'-DDT	mg/Kg	12	2	16.7%	1.00E-02	7.00E-02	7.00E-03	1.00E-02	9.75E-03	1.45E-02	--	2.72E-02	2.72E-02	Bootstrap-t	Subsurface Soil
PEST/	PCB-1260 (Aroclor 1260)	mg/Kg	13	5	38.5%	1.00E-01	1.00E-01	3.00E-02	4.10E+00	6.18E-01	1.20E+00	--	2.50E+00	2.50E+00	Bootstrap-t	Subsurface Soil
SVOC	2-METHYLNAPHTHALENE	mg/Kg	13	1	7.7%	5.00E-02	3.00E-01	1.00E+01	1.00E+01	8.88E-01	2.24E+00	--	6.00E+01	1.00E+01	MaxDet	Subsurface Soil
SVOC	bis(2-ETHYLHEXYL) PHTHALATE	mg/Kg	13	2	15.4%	3.00E-01	6.00E+00	1.00E-01	1.00E-01	3.62E-01	7.54E-01	--	1.27E+01	3.00E+00	MaxDet	Subsurface Soil
SVOC	DI-n-OCTYLPHTHALATE	mg/Kg	13	2	15.4%	4.00E-02	6.00E+00	3.60E-01	7.00E-01	4.08E-01	8.02E-01	--	3.00E+00	3.00E+00	MaxDet	Subsurface Soil
VOC	1,2,4-TRIMETHYLBENZENE	mg/Kg	13	1	7.7%	7.00E-04	2.00E-02	1.80E+01	1.80E+01	1.39E+00	3.86E+00	--	2.58E+03	1.80E+01	MaxDet	Subsurface Soil
VOC	1,3,5-TRIMETHYLBENZENE (MESITYLENE)	mg/Kg	13	1	7.7%	8.00E-04	2.00E-02	7.80E+00	7.80E+00	6.08E-01	1.68E+00	--	4.86E+02	7.80E+00	MaxDet	Subsurface Soil
VOC	ACETONE	mg/Kg	13	1	7.7%	3.00E-02	1.20E+01	7.60E-02	7.60E-02	4.87E-01	1.31E+00	--	2.05E+02	6.00E+00	MaxDet	Subsurface Soil
VOC	ETHYLBENZENE	mg/Kg	13	1	7.7%	2.00E-03	5.00E-03	2.30E+00	2.30E+00	1.79E-01	4.94E-01	--	2.71E+02	2.30E+00	MaxDet	Subsurface Soil
VOC	TRICHLOROETHYLENE (TCE)	mg/Kg	13	3	23.1%	1.00E-03	1.20E+00	2.00E-03	3.40E-02	5.22E-02	1.34E-01	--	1.47E+00	6.00E-01	MaxDet	Subsurface Soil
VOC	XYLENES, TOTAL	mg/Kg	13	2	15.4%	3.00E-03	5.50E-03	6.00E-03	1.40E+01	1.08E+00	3.00E+00	--	1.07E+04	1.40E+01	MaxDet	Subsurface Soil

Notes:

PCB - polychlorinated biphenyl
PEST - pesticide
VOC = volatile organic compound
SVOC = semivolatile organic compound
mg/kg = milligrams per kilogram
MDL - method detection limit

TABLE A-22

Summary Statistics for Constituents Detected in Subsurface Soil at Periphery Road

Building 35-752 Subsurface Soil

Ft. Richardson

Chemical Class	Chemical Name	Units	Number of Samples Analyzed	Number of Detects	Frequency of Detects	Minimum MDL	Maximum MDL	Minimum Detected Result	Maximum Detected Result	Average Concentration	95% UCL Normal	95% UCL Lognormal	Bootstrap-t	Exposure Point Concentration	EPC Basis	Comment
DIOXI	1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	mg/Kg	11	7	63.6%	1.99E-06	1.00E-05	6.70E-07	9.48E-05	2.34E-05	4.23E-05	--	4.99E-05	4.99E-05	Bootstrap-t	Subsurface Soil
DIOXI	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN	mg/Kg	11	9	81.8%	1.09E-06	1.10E-06	3.40E-07	1.42E-04	3.67E-05	6.07E-05	--	7.34E-05	7.34E-05	Bootstrap-t	Subsurface Soil
DIOXI	1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	mg/Kg	11	5	45.5%	1.69E-06	1.00E-05	6.00E-07	3.42E-05	8.26E-06	1.46E-05	--	1.99E-05	1.99E-05	Bootstrap-t	Subsurface Soil
DIOXI	1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	mg/Kg	11	6	54.5%	7.50E-07	8.00E-06	3.60E-07	8.49E-05	1.76E-05	3.35E-05	--	5.26E-05	5.26E-05	Bootstrap-t	Subsurface Soil
DIOXI	1,2,3,4,7,8-HEXACHLORODIBENZO-p-DIOXIN	mg/Kg	11	2	18.2%	9.30E-07	1.00E-05	1.10E-06	1.90E-06	1.48E-06	2.46E-06	--	4.74E-06	4.74E-06	Bootstrap-t	Subsurface Soil
DIOXI	1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	mg/Kg	11	5	45.5%	1.00E-06	1.00E-05	3.20E-07	1.15E-05	3.24E-06	5.24E-06	--	6.09E-06	5.24E-06	Norm	Subsurface Soil
DIOXI	1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	mg/Kg	11	5	45.5%	1.49E-06	2.00E-05	3.10E-07	3.70E-06	2.95E-06	4.94E-06	--	8.61E-06	8.61E-06	Bootstrap-t	Subsurface Soil
DIOXI	1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	mg/Kg	11	4	36.4%	1.39E-06	1.00E-05	6.60E-07	3.10E-06	1.95E-06	2.90E-06	--	3.38E-06	3.38E-06	Bootstrap-t	Subsurface Soil
DIOXI	2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	mg/Kg	11	5	45.5%	2.89E-06	1.00E-05	3.60E-07	6.35E-06	2.79E-06	3.92E-06	--	4.06E-06	3.92E-06	Norm	Subsurface Soil
DIOXI	2,3,4,7,8-PENTACHLORODIBENZOFURAN	mg/Kg	11	4	36.4%	9.90E-07	1.00E-05	4.25E-07	1.14E-05	3.09E-06	5.01E-06	--	5.51E-06	5.51E-06	Bootstrap-t	Subsurface Soil
DIOXI	2,3,7,8-TETRACHLORODIBENZOFURAN	mg/Kg	11	5	45.5%	5.10E-07	7.00E-06	4.50E-07	5.95E-06	2.02E-06	3.20E-06	--	3.57E-06	3.57E-06	Bootstrap-t	Subsurface Soil
DIOXI	2,3,7,8-TETRACHLORODIBENZO-p-DIOXIN	mg/Kg	11	1	9.1%	6.90E-07	1.00E-05	3.60E-07	3.60E-07	1.20E-06	2.22E-06	--	4.55E-04	5.00E-06	MaxDet	Subsurface Soil
DIOXI	OCTACHLORODIBENZOFURAN	mg/Kg	11	7	63.6%	4.28E-06	3.00E-05	8.00E-07	2.71E-04	6.66E-05	1.20E-04	--	1.52E-04	1.20E-04	Norm	Subsurface Soil
DIOXI	OCTACHLORODIBENZO-p-DIOXIN	mg/Kg	11	10	90.9%	2.59E-06	2.59E-06	1.00E-06	9.61E-04	2.60E-04	4.32E-04	--	5.20E-04	5.20E-04	Bootstrap-t	Subsurface Soil
DIOXI	Total TCDD-Mammal	mg/Kg	10	10	100.0%	--	--	1.00E-10	1.98E-05	4.44E-06	8.46E-06	--	1.12E-05	1.12E-05	Bootstrap-t	Subsurface Soil
PEST/	PCB-1260 (Aroclor 1260)	mg/Kg	39	37	94.9%	3.10E-03	3.38E-03	4.73E-03	2.79E+00	4.48E-01	6.17E-01	3.22E+00	6.85E-01	6.85E-01	Bootstrap-t	Subsurface Soil

Notes:

PCB - polychlorinated biphenyl
PEST - pesticide
VOC = volatile organic compound
SVOC = semivolatile organic compound
mg/kg = milligrams per kilogram
MDL - method detection limit

TABLE A-23

Summary Statistics for Constituents Detected in Subsurface Soil at Soil Stockpile Area

Building 35-752 Subsurface Soil

Ft. Richardson

Chemical Class	Chemical Name	Units	Number of Samples Analyzed	Number of Detects	Frequency of Detects	Minimum MDL	Maximum MDL	Minimum Detected Result	Maximum Detected Result	Average Concentration	95% UCL Normal	95% UCL Lognormal	Bootstrap-t	Exposure Point Concentration	EPC Basis	Comment
DIOXI	1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	mg/Kg	4	4	100.0%	--	--	6.50E-07	1.39E-05	6.11E-06	1.27E-05	--	1.67E-05	MaxDet	1.39E-05	Subsurface Soil
DIOXI	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN	mg/Kg	4	4	100.0%	--	--	3.30E-06	1.53E-05	9.48E-06	1.59E-05	--	2.18E-05	MaxDet	1.53E-05	Subsurface Soil
DIOXI	1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	mg/Kg	4	3	75.0%	1.65E-06	1.65E-06	1.20E-06	6.10E-06	2.81E-06	5.64E-06	--	2.28E-05	MaxDet	6.10E-06	Subsurface Soil
DIOXI	1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	mg/Kg	4	4	100.0%	--	--	4.40E-07	1.16E-05	4.16E-06	1.01E-05	--	2.51E-05	MaxDet	1.16E-05	Subsurface Soil
DIOXI	1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	mg/Kg	4	3	75.0%	1.00E-06	1.00E-06	2.60E-07	1.50E-06	6.63E-07	1.33E-06	--	3.21E-06	MaxDet	1.50E-06	Subsurface Soil
DIOXI	1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	mg/Kg	4	2	50.0%	1.49E-06	1.49E-06	3.10E-07	3.10E-07	5.28E-07	8.23E-07	--	7.05E-07	Standard Bootstrap	7.05E-07	Subsurface Soil
DIOXI	2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	mg/Kg	4	2	50.0%	2.88E-06	2.89E-06	2.50E-07	3.70E-07	8.76E-07	1.65E-06	--	6.24E-06	MaxDet	1.45E-06	Subsurface Soil
DIOXI	2,3,4,7,8-PENTACHLORODIBENZOFURAN	mg/Kg	4	1	25.0%	9.70E-07	1.00E-06	3.00E-07	3.00E-07	4.45E-07	5.59E-07	--	5.37E-07	MaxDet	5.00E-07	Subsurface Soil
DIOXI	2,3,7,8-TETRACHLORODIBENZOFURAN	mg/Kg	4	2	50.0%	5.00E-07	5.10E-07	4.30E-07	9.00E-07	4.59E-07	8.19E-07	--	2.23E-05	MaxDet	9.00E-07	Subsurface Soil
DIOXI	OCTACHLORODIBENZOFURAN	mg/Kg	4	4	100.0%	--	--	1.20E-06	3.61E-05	1.58E-05	3.33E-05	--	4.35E-05	MaxDet	3.61E-05	Subsurface Soil
DIOXI	OCTACHLORODIBENZO-p-DIOXIN	mg/Kg	4	4	100.0%	--	--	4.21E-05	8.58E-05	6.27E-05	8.54E-05	--	1.10E-04	MaxDet	8.58E-05	Subsurface Soil
DIOXI	Total TCDD-Mammal	mg/Kg	4	4	100.0%	--	--	1.71E-07	1.74E-06	7.61E-07	1.56E-06	--	3.23E-06	MaxDet	1.74E-06	Subsurface Soil
PEST/	PCB-1260 (Aroclor 1260)	mg/Kg	11	9	81.8%	4.00E-03	3.30E-01	2.00E-02	7.90E-01	2.55E-01	3.93E-01	--	4.26E-01	Norm	3.93E-01	Subsurface Soil

Notes:

PCB - polychlorinated biphenyl
PEST - pesticide
VOC = volatile organic compound
SVOC = semivolatile organic compound
mg/kg = milligrams per kilogram
MDL - method detection limit

TABLE A-24

Summary Statistics for Constituents Detected in Subsurface Soil at Tranformer Mounting

Building 35-752 Subsurface Soil

Ft. Richardson

Chemical Class	Chemical Name	Units	Number of Samples Analyzed	Number of Detects	Frequency of Detects	Minimum MDL	Maximum MDL	Minimum Detected Result	Maximum Detected Result	Average Concentration	95% UCL Normal	95% UCL Lognormal	Bootstrap-t	Exposure Point Concentration	EPC Basis	Comment
DIOXI	1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	mg/Kg	5	5	100.0%	--	--	3.50E-06	1.66E-04	6.80E-05	1.37E-04	--	4.36E-04	1.37E-04	Norm	Subsurface Soil
DIOXI	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN	mg/Kg	5	5	100.0%	--	--	2.90E-06	5.18E-04	1.93E-04	3.96E-04	--	1.03E-03	3.96E-04	Norm	Subsurface Soil
DIOXI	1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	mg/Kg	5	5	100.0%	--	--	1.40E-06	1.96E-05	8.66E-06	1.66E-05	--	3.48E-05	1.66E-05	Norm	Subsurface Soil
DIOXI	1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	mg/Kg	5	5	100.0%	--	--	1.60E-06	3.72E-05	1.26E-05	2.64E-05	--	4.03E-05	2.64E-05	Norm	Subsurface Soil
DIOXI	1,2,3,4,7,8-HEXACHLORODIBENZO-p-DIOXIN	mg/Kg	5	3	60.0%	9.40E-07	9.40E-07	6.30E-07	2.60E-06	1.29E-06	2.31E-06	--	1.05E-05	2.31E-06	Norm	Subsurface Soil
DIOXI	1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	mg/Kg	5	5	100.0%	--	--	4.00E-07	6.40E-06	2.50E-06	4.75E-06	--	6.30E-06	4.75E-06	Norm	Subsurface Soil
DIOXI	1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	mg/Kg	5	4	80.0%	1.50E-06	1.50E-06	1.90E-06	1.17E-05	4.89E-06	9.22E-06	--	2.03E-05	9.22E-06	Norm	Subsurface Soil
DIOXI	1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	mg/Kg	5	4	80.0%	1.40E-06	1.40E-06	1.60E-06	6.20E-06	2.96E-06	5.21E-06	--	1.20E-05	5.21E-06	Norm	Subsurface Soil
DIOXI	1,2,3,7,8-PENTACHLORODIBENZOFURAN	mg/Kg	5	1	20.0%	9.30E-07	9.50E-07	8.32E-05	8.32E-05	1.70E-05	5.23E-05	--	2.24E-01	2.24E-01	Bootstrap-t	Subsurface Soil
DIOXI	1,2,3,7,8-PENTACHLORODIBENZO-p-DIOXIN	mg/Kg	5	1	20.0%	4.80E-07	4.90E-07	6.40E-07	6.40E-07	3.23E-07	4.92E-07	--	4.40E-07	4.40E-07	Standard Bootstrap	Subsurface Soil
DIOXI	2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	mg/Kg	5	5	100.0%	--	--	3.40E-07	4.70E-06	2.49E-06	4.39E-06	--	1.00E-05	4.39E-06	Norm	Subsurface Soil
DIOXI	2,3,4,7,8-PENTACHLORODIBENZOFURAN	mg/Kg	5	4	80.0%	1.00E-06	1.00E-06	6.30E-07	3.90E-06	1.69E-06	3.00E-06	--	4.02E-06	3.00E-06	Norm	Subsurface Soil
DIOXI	2,3,7,8-TETRACHLORODIBENZOFURAN	mg/Kg	5	5	100.0%	--	--	6.60E-07	5.20E-06	2.02E-06	3.83E-06	--	1.00E-05	3.83E-06	Norm	Subsurface Soil
DIOXI	2,3,7,8-TETRACHLORODIBENZO-p-DIOXIN	mg/Kg	5	1	20.0%	--	--	2.60E-07	2.60E-07	3.31E-07	3.69E-07	--	3.57E-07	3.50E-07	MaxDet	Subsurface Soil
DIOXI	OCTACHLORODIBENZOFURAN	mg/Kg	5	5	100.0%	--	--	8.50E-06	7.87E-04	2.79E-04	6.01E-04	--	2.78E-03	6.01E-04	Norm	Subsurface Soil
DIOXI	OCTACHLORODIBENZO-p-DIOXIN	mg/Kg	5	5	100.0%	--	--	1.71E-05	4.49E-03	1.63E-03	3.46E-03	--	1.34E-02	3.46E-03	Norm	Subsurface Soil
DIOXI	Total TCDD-Mammal	mg/Kg	5	5	100.0%	--	--	7.86E-07	1.68E-05	7.52E-06	1.45E-05	--	2.75E-05	1.45E-05	Norm	Subsurface Soil
PEST/	PCB-1260 (Aroclor 1260)	mg/Kg	20	20	100.0%	--	--	4.85E-02	9.99E+01	8.65E+00	1.76E+01	--	6.11E+01	6.11E+01	Bootstrap-t	Subsurface Soil

Notes:

PCB - polychlorinated biphenyl
PEST - pesticide
VOC = volatile organic compound
SVOC = semivolatile organic compound
mg/kg = milligrams per kilogram
MDL - method detection limit

TABLE A-25

Summary Statistics for Constituents Detected in Building 35-752 Groundwater

Building 35-752 Groundwater

Ft. Richardson

Chemical Class	Chemical Name	Units	Number of Samples Analyzed	Number of Detects	Frequency of Detects	Minimum MDL	Maximum MDL	Minimum Detected Result	Maximum Detected Result	Average Concentration	95% UCL Normal	95% UCL Lognormal	Bootstrap-t	Comment
METAL	ALUMINUM	mg/L	7	7	100.0%	--	--	2.20E-02	2.30E+00	5.22E-01	--	--	--	Groundwater
METAL	BARIUM	mg/L	7	7	100.0%	--	--	2.50E-03	2.40E-02	1.12E-02	--	--	--	Groundwater
METAL	BARIUM_DISS	mg/L	2	2	100.0%	--	--	2.80E-03	1.00E-02	6.40E-03	--	--	--	Groundwater
METAL	CALCIUM	mg/L	7	7	100.0%	--	--	8.20E+00	4.40E+01	2.19E+01	--	--	--	Groundwater
METAL	CALCIUM_DISS	mg/L	2	2	100.0%	--	--	8.80E+00	2.70E+01	1.79E+01	--	--	--	Groundwater
METAL	CHROMIUM	mg/L	7	4	57.1%	2.00E-03	2.00E-03	2.60E-03	6.00E-03	2.56E-03	--	--	--	Groundwater
METAL	COBALT	mg/L	7	4	57.1%	1.50E-03	1.50E-03	1.50E-03	2.80E-03	1.56E-03	--	--	--	Groundwater
METAL	COPPER	mg/L	7	6	85.7%	1.20E-03	1.20E-03	2.00E-03	2.60E-02	7.71E-03	--	--	--	Groundwater
METAL	COPPER_DISS	mg/L	2	2	100.0%	--	--	2.50E-03	1.90E-02	1.08E-02	--	--	--	Groundwater
METAL	IRON	mg/L	7	7	100.0%	--	--	3.90E-02	7.60E+00	1.87E+00	--	--	--	Groundwater
METAL	IRON_DISS	mg/L	2	2	100.0%	--	--	5.10E-03	1.10E-02	8.05E-03	--	--	--	Groundwater
METAL	MAGNESIUM	mg/L	7	7	100.0%	--	--	1.80E+00	1.20E+01	4.95E+00	--	--	--	Groundwater
METAL	MAGNESIUM_DISS	mg/L	2	2	100.0%	--	--	1.80E+00	4.80E+00	3.30E+00	--	--	--	Groundwater
METAL	MANGANESE	mg/L	7	7	100.0%	--	--	8.40E-04	3.10E+00	6.96E-01	--	--	--	Groundwater
METAL	MANGANESE-DISS	mg/L	2	1	50.0%	5.00E-04	5.00E-04	6.20E-04	6.20E-04	4.35E-04	--	--	--	Groundwater
METAL	MERCURY	mg/L	7	6	85.7%	3.00E-05	3.00E-05	4.50E-05	8.40E-05	5.83E-05	--	--	--	Groundwater
METAL	MERCURY_DISS	mg/L	2	2	100.0%	--	--	5.30E-05	5.60E-05	5.45E-05	--	--	--	Groundwater
METAL	POTASSIUM	mg/L	7	7	100.0%	--	--	8.60E-01	1.50E+00	1.08E+00	--	--	--	Groundwater
METAL	POTASSIUM_DISS	mg/L	2	2	100.0%	--	--	4.60E-01	1.10E+00	7.80E-01	--	--	--	Groundwater
METAL	SODIUM	mg/L	7	7	100.0%	--	--	8.20E+00	1.10E+01	9.57E+00	--	--	--	Groundwater
METAL	SODIUM_DISS	mg/L	2	2	100.0%	--	--	8.30E+00	9.90E+00	9.10E+00	--	--	--	Groundwater
METAL	ZINC	mg/L	7	6	85.7%	1.00E-03	1.00E-03	3.30E-03	2.30E-02	7.25E-03	--	--	--	Groundwater
METAL	ZINC_DISS	mg/L	2	2	100.0%	--	--	4.40E-03	1.70E-02	1.07E-02	--	--	--	Groundwater
PEST/	PCB-1260 (Aroclor 1260)	mg/L	7	1	14.3%	4.60E-05	5.00E-05	6.10E-05	6.10E-05	2.91E-05	--	--	--	Groundwater
SVOC	2-METHYLNAPHTHALENE	mg/L	7	3	42.9%	1.19E-05	1.30E-05	5.60E-05	2.95E-03	4.43E-04	--	--	--	Groundwater
SVOC	ACENAPHTHENE	mg/L	7	1	14.3%	8.80E-06	9.70E-06	2.40E-04	2.40E-04	3.83E-05	--	--	--	Groundwater
SVOC	ACENAPHTHYLENE	mg/L	7	1	14.3%	9.50E-06	1.40E-05	8.10E-05	8.10E-05	1.66E-05	--	--	--	Groundwater
SVOC	bis(2-ETHYLHEXYL) PHTHALATE	mg/L	7	1	14.3%	8.10E-04	2.20E-03	6.80E-03	6.80E-03	1.56E-03	--	--	--	Groundwater
SVOC	DI-n-BUTYL PHTHALATE	mg/L	7	5	71.4%	4.10E-04	4.40E-04	1.20E-03	4.00E-03	1.79E-03	--	--	--	Groundwater
SVOC	FLUORENE	mg/L	7	2	28.6%	9.60E-06	1.00E-05	8.93E-05	7.10E-04	1.18E-04	--	--	--	Groundwater
SVOC	PHENANTHRENE	mg/L	7	1	14.3%	8.50E-06	9.30E-06	1.30E-04	1.30E-04	2.24E-05	--	--	--	Groundwater
TPH	DIESEL RANGE ORGANICS	mg/L	7	5	71.4%	3.50E-02	4.20E-02	5.90E-02	8.70E-01	2.87E-01	--	--	--	Groundwater
TPH	GASOLINE RANGE ORGANICS	mg/L	7	6	85.7%	4.90E-02	4.90E-02	1.20E-02	5.50E-01	1.55E-01	--	--	--	Groundwater
TPH	RESIDUAL RANGE ORGANICS	mg/L	4	3	75.0%	2.80E-01	2.80E-01	1.10E-01	1.20E-01	1.23E-01	--	--	--	Groundwater
VOC	1,1,1-TRICHLOROETHANE	mg/L	7	3	42.9%	1.30E-04	6.10E-04	6.80E-04	8.70E-04	3.99E-04	--	--	--	Groundwater
VOC	1,1-DICHLOROETHANE	mg/L	7	1	14.3%	7.40E-05	4.40E-04	2.40E-04	2.40E-04	1.47E-04	--	--	--	Groundwater
VOC	1,2,4-TRIMETHYLBENZENE	mg/L	7	2	28.6%	5.70E-05	4.80E-04	1.60E-02	4.80E-02	9.22E-03	--	--	--	Groundwater
VOC	1,3,5-TRIMETHYLBENZENE (MESITYLENE)	mg/L	7	2	28.6%	8.40E-05	4.80E-04	4.80E-03	4.40E-02	7.06E-03	--	--	--	Groundwater
VOC	ACETONE	mg/L	7	1	14.3%	1.30E-04	5.10E-03	8.03E-03	8.03E-03	1.71E-03	--	--	--	Groundwater
VOC	BENZENE	mg/L	7	4	57.1%	2.00E-05	6.40E-05	1.00E-04	5.10E-03	1.16E-03	--	--	--	Groundwater
VOC	CHLOROETHANE	mg/L	7	1	14.3%	9.20E-05	6.30E-04	1.40E-04	1.40E-04	1.75E-04	--	--	--	Groundwater
VOC	CHLOROFORM	mg/L	7	2	28.6%	8.00E-05	4.60E-04	2.00E-04	2.20E-04	1.61E-04	--	--	--	Groundwater
VOC	CHLOROMETHANE	mg/L	7	3	42.9%	7.90E-05	1.10E-03	1.20E-04	4.00E-03	8.77E-04	--	--	--	Groundwater
VOC	cis-1,2-DICHLOROETHYLENE	mg/L	7	2	28.6%	7.90E-05	4.70E-04	2.40E-04	9.60E-03	1.52E-03	--	--	--	Groundwater
VOC	ETHYLBENZENE	mg/L	7	3	42.9%	2.00E-05	5.60E-05	1.20E-04	4.58E-02	9.99E-03	--	--	--	Groundwater
VOC	ISOPROPYLBENZENE (CUMENE)	mg/L	7	3	42.9%	6.30E-05	4.80E-04	7.40E-04	4.90E-03	1.13E-03	--	--	--	Groundwater
VOC	METHYLENE CHLORIDE	mg/L	7	2	28.6%	2.50E-04	4.70E-04	1.90E-03	1.90E-03	6.80E-04	--	--	--	Groundwater
VOC	NAPHTHALENE	mg/L	7	3	42.9%	1.09E-05	3.10E-05	6.50E-05	7.25E-03	1.19E-03	--	--	--	Groundwater
VOC	n-BUTYLBENZENE	mg/L	7	1	14.3%	6.50E-05	4.60E-04	2.28E-03	2.28E-03	4.12E-04	--	--	--	Groundwater
VOC	n-PROPYLBENZENE	mg/L	7	2	28.6%	7.20E-05	5.00E-04	1.80E-03	9.75E-03	1.74E-03	--	--	--	Groundwater
VOC	O-XYLENE (1,2-DIMETHYLBENZENE)	mg/L	7	2	28.6%	6.10E-05	4.60E-04	3.63E-02	3.90E-02	1.08E-02	--	--	--	Groundwater
VOC	P-CYMENE (p-ISOPROPYLTOLUENE)	mg/L	7	1	14.3%	3.90E-05	5.50E-04	1.00E-03	1.00E-03	2.36E-04	--	--	--	Groundwater
VOC	SEC-BUTYLBENZENE	mg/L	7	1	14.3%	7.90E-05	5.60E-04	1.40E-03	1.40E-03	3.31E-04	--	--	--	Groundwater
VOC	STYRENE	mg/L	7	1	14.3%	8.50E-05	5.80E-04	1.90E-03	1.90E-03	3.80E-04	--	--	--	Groundwater
VOC	TETRACHLOROETHYLENE(PCE)	mg/L	7	2	28.6%	5.90E-05	3.20E-04	4.40E-04	6.40E-04	2.14E-04	--	--	--	Groundwater
VOC	TOLUENE	mg/L	7	4	57.1%	4.00E-05	9.70E-05	1.60E-03	7.84E-03	2.75E-03	--	--	--	Groundwater

TABLE A-25

Summary Statistics for Constituents Detected in Building 35-752 Groundwater

Building 35-752 Groundwater

Ft. Richardson

Chemical Class	Chemical Name	Units	Number of Samples Analyzed	Number of Detects	Frequency of Detects	Minimum MDL	Maximum MDL	Minimum Detected Result	Maximum Detected Result	Average Concentration	95% UCL Normal	95% UCL Lognormal	Bootstrap-t	Comment
VOC	TRICHLOROETHYLENE (TCE)	mg/L	7	7	100.0%	--	--	3.60E-04	8.60E-03	2.05E-03	--	--	--	Groundwater
VOC	VINYL ACETATE	mg/L	7	1	14.3%	6.50E-05	2.60E-03	1.80E-03	1.80E-03	5.51E-04	--	--	--	Groundwater
VOC	VINYL CHLORIDE	mg/L	7	1	14.3%	6.10E-05	5.30E-04	3.80E-04	3.80E-04	1.81E-04	--	--	--	Groundwater
VOC	XYLENES, m & p	mg/L	7	2	28.6%	1.40E-04	2.80E-04	3.70E-02	6.20E-02	1.42E-02	--	--	--	Groundwater
VOC	XYLENES, TOTAL	mg/L	4	1	25.0%	5.00E-05	8.40E-04	9.33E-02	9.33E-02	2.34E-02	--	--	--	Groundwater

Notes:

PCB - polychlorinated biphenyl
PEST - pesticide
VOC = volatile organic compound
SVOC = semivolatile organic compound
mg/kg = milligrams per kilogram
MDL - method detection limit

TABLE A-26
Summary Statistics for Constituents Detected in All Surface Soil
AVMA Surface Soils
Ft. Richardson

Chemical Class	Chemical Name	Units	Number of Samples Analyzed	Number of Detects	Frequency of Detects	Minimum MDL	Maximum MDL	Minimum Detected Result	Maximum Detected Result	Average Concentration	95% UCL Normal	95% UCL Lognormal	Bootstrap-t	Exposure Point Concentration	EPC Basis	Comment
METAL	ALUMINUM	mg/Kg	7	7	100.0%	--	--	1.34E+04	2.61E+04	2.11E+04	2.43E+04	--	2.40E+04	2.43E+04	Normal	Surface Soi
METAL	ANTIMONY	mg/Kg	7	7	100.0%	--	--	3.00E-01	8.20E-01	4.87E-01	6.22E-01	--	6.81E-01	6.22E-01	Normal	Surface Soi
METAL	ARSENIC	mg/Kg	7	5	71.4%	1.10E+00	1.20E+00	2.10E+00	9.10E+00	3.98E+00	6.33E+00	--	6.82E+00	6.33E+00	Normal	Surface Soi
METAL	BARIUM	mg/Kg	7	7	100.0%	--	--	6.89E+01	1.20E+02	9.48E+01	1.10E+02	--	1.11E+02	1.10E+02	Normal	Surface Soi
METAL	BERYLLIUM	mg/Kg	7	7	100.0%	--	--	3.90E-01	5.40E-01	4.29E-01	4.69E-01	--	6.36E-01	5.40E-01	Max Detect	Surface Soi
METAL	CADMIUM	mg/Kg	7	7	100.0%	--	--	8.40E-01	1.45E+00	1.01E+00	1.16E+00	--	1.44E+00	1.44E+00	Bootstrap-t	Surface Soi
METAL	CALCIUM	mg/Kg	7	7	100.0%	--	--	4.25E+03	7.80E+03	5.50E+03	6.34E+03	--	7.14E+03	6.34E+03	Normal	Surface Soi
METAL	CHROMIUM	mg/Kg	7	7	100.0%	--	--	3.20E+01	4.20E+01	3.69E+01	3.94E+01	--	3.94E+01	3.94E+01	Normal	Surface Soi
METAL	COBALT	mg/Kg	7	7	100.0%	--	--	1.10E+01	2.44E+01	1.42E+01	1.76E+01	--	2.87E+01	2.44E+01	Max Detect	Surface Soi
METAL	COPPER	mg/Kg	7	7	100.0%	--	--	2.30E+01	3.71E+01	2.81E+01	3.15E+01	--	3.32E+01	3.15E+01	Normal	Surface Soi
METAL	IRON	mg/Kg	7	7	100.0%	--	--	3.30E+04	4.82E+04	3.74E+04	4.13E+04	--	4.64E+04	4.13E+04	Normal	Surface Soi
METAL	LEAD	mg/Kg	7	7	100.0%	--	--	3.72E+00	3.60E+01	1.13E+01	1.96E+01	--	5.75E+01	3.60E+01	Max Detect	Surface Soi
METAL	MAGNESIUM	mg/Kg	7	7	100.0%	--	--	6.80E+03	3.59E+04	1.25E+04	2.01E+04	--	6.81E+04	3.59E+04	Max Detect	Surface Soi
METAL	MANGANESE	mg/Kg	7	7	100.0%	--	--	5.10E+02	1.67E+03	7.43E+02	1.05E+03	--	2.99E+03	1.67E+03	Max Detect	Surface Soi
METAL	MERCURY	mg/Kg	7	7	100.0%	--	--	4.20E-02	9.00E-02	5.84E-02	7.17E-02	--	8.36E-02	7.17E-02	Normal	Surface Soi
METAL	NICKEL	mg/Kg	7	7	100.0%	--	--	3.10E+01	1.95E+02	5.85E+01	1.03E+02	--	7.00E+02	1.95E+02	Max Detect	Surface Soi
METAL	POTASSIUM	mg/Kg	7	7	100.0%	--	--	7.40E+02	9.90E+02	8.63E+02	9.34E+02	--	9.35E+02	9.34E+02	Normal	
METAL	SELENIUM	mg/Kg	7	7	100.0%	--	--	3.60E+00	1.10E+01	6.43E+00	8.36E+00	--	9.07E+00	8.36E+00	Normal	
METAL	SODIUM	mg/Kg	7	7	100.0%	--	--	5.79E+01	3.10E+02	1.74E+02	2.38E+02	--	2.47E+02	2.38E+02	Normal	
METAL	VANADIUM	mg/Kg	7	7	100.0%	--	--	5.57E+01	8.70E+01	7.20E+01	7.91E+01	--	7.88E+01	7.91E+01	Normal	
METAL	ZINC	mg/Kg	7	7	100.0%	--	--	5.70E+01	7.30E+01	6.38E+01	6.77E+01	--	6.84E+01	6.77E+01	Normal	
PEST/PCB	ALPHA BHC	mg/Kg	6	1	16.7%	2.80E-04	3.41E-04	8.60E-04	8.60E-04	2.69E-04	5.08E-04	--	3.67E-03	8.60E-04	Max Detect	Surface Soi
PEST/PCB	ALPHA-CHLORDANE	mg/Kg	6	2	33.3%	3.11E-04	4.37E-04	4.00E-04	1.10E-03	3.74E-04	6.76E-04	--	2.88E-03	1.10E-03	Max Detect	Surface Soi
PEST/PCB	BETA BHC	mg/Kg	6	2	33.3%	4.41E-04	6.10E-04	7.70E-04	9.60E-04	4.62E-04	7.25E-04	--	2.19E-03	9.60E-04	Max Detect	Surface Soi
PEST/PCB	DELTA BHC	mg/Kg	6	1	16.7%	4.00E-04	5.00E-04	8.60E-04	8.60E-04	3.30E-04	5.44E-04	--	2.58E-03	8.60E-04	Max Detect	Surface Soi
PEST/PCB	DIELDRIN	mg/Kg	6	1	16.7%	2.80E-04	3.60E-04	3.60E-04	3.60E-04	1.91E-04	2.60E-04	--	4.21E-04	3.60E-04	Max Detect	Surface Soi
PEST/PCB	ENDOSULFAN SULFATE	mg/Kg	6	2	33.3%	2.00E-04	4.00E-04	2.32E-04	4.60E-04	2.15E-04	3.23E-04	--	3.93E-04	3.23E-04	Normal	Surface Soi
PEST/PCB	ENDRIN	mg/Kg	6	1	16.7%	3.76E-04	6.80E-04	2.20E-03	2.20E-03	5.93E-04	1.24E-03	--	5.15E-03	2.20E-03	Max Detect	Surface Soi
PEST/PCB	ENDRIN ALDEHYDE	mg/Kg	6	1	16.7%	4.25E-04	1.10E-03	2.83E-03	2.83E-03	7.99E-04	1.63E-03	--	4.25E-03	2.83E-03	Max Detect	Surface Soi
PEST/PCB	ENDRIN KETONE	mg/Kg	6	1	16.7%	2.40E-04	3.09E-04	3.20E-04	3.20E-04	1.65E-04	2.29E-04	--	4.43E-04	3.20E-04	Max Detect	Surface Soi
PEST/PCB	HEPTACHLOR	mg/Kg	6	1	16.7%	3.59E-04	1.20E-03	1.70E-03	1.70E-03	6.31E-04	1.09E-03	--	1.50E-03	1.50E-03	Bootstrap-t	Surface Soi
PEST/PCB	HEPTACHLOR EPOXIDE	mg/Kg	6	1	16.7%	3.81E-04	6.80E-04	2.50E-03	2.50E-03	6.44E-04	1.39E-03	--	6.81E-03	2.50E-03	Max Detect	Surface Soi
PEST/PCB	METHOXYCHLOR	mg/Kg	6	1	16.7%	1.39E-03	1.51E-03	2.50E-03	2.50E-03	1.02E-03	1.62E-03	--	1.16E-02	2.50E-03	Max Detect	Surface Soi
PEST/PCB	p,p'-DDD	mg/Kg	6	4	66.7%	2.03E-04	2.14E-04	7.64E-04	3.80E-02	8.53E-03	2.07E-02	--	6.33E-02	3.80E-02	Max Detect	Surface Soi
PEST/PCB	p,p'-DDE	mg/Kg	6	5	83.3%	2.40E-04	2.40E-04	1.20E-03	3.90E-02	8.42E-03	2.09E-02	--	1.78E-01	3.90E-02	Max Detect	Surface Soi
PEST/PCB	p,p'-DDT	mg/Kg	6	6	100.0%	--	--	4.56E-03	2.40E-01	5.64E-02	1.31E-01	--	6.59E-01	2.40E-01	Max Detect	Surface Soi
SVOC	2-METHYLNAPHTHALENE	mg/Kg	7	2	28.6%	4.60E-02	4.80E-02	2.80E-01	7.70E-01	1.67E-01	3.74E-01	--	1.03E+02	7.70E-01	Max Detect	Surface Soi
SVOC	ACENAPHTHENE	mg/Kg	7	2	28.6%	4.10E-02	4.90E-02	5.70E-02	1.20E+00	1.95E-01	5.21E-01	--	5.50E+01	1.20E+00	Max Detect	Surface Soi
SVOC	ANTHRACENE	mg/Kg	7	3	42.9%	3.70E-02	4.40E-02	6.80E-02	1.10E+00	1.94E-01	4.88E-01	--	3.83E+00	1.10E+00	Max Detect	Surface Soi
SVOC	BENZO(a)ANTHRACENE	mg/Kg	7	3	42.9%	3.70E-02	4.40E-02	1.10E-01	1.20E+00	2.21E-01	5.41E-01	--	2.61E+00	1.20E+00	Max Detect	Surface Soi
SVOC	BENZO(a)PYRENE	mg/Kg	7	3	42.9%	3.00E-02	3.60E-02	9.60E-02	1.10E+00	2.04E-01	4.98E-01	--	2.53E+00	1.10E+00	Max Detect	Surface Soi
SVOC	BENZO(b)FLUORANTHENE	mg/Kg	7	3	42.9%	2.70E-02	3.20E-02	9.40E-02	1.10E+00	2.03E-01	4.97E-01	--	2.55E+00	1.10E+00	Max Detect	Surface Soi
SVOC	BENZO(g,h,i)PERYLENE	mg/Kg	7	3	42.9%	4.00E-02	4.70E-02	8.80E-02	4.70E-01	1.09E-01	2.30E-01	--	6.16E-01	4.70E-01	Max Detect	Surface Soi
SVOC	BENZO(k)FLUORANTHENE	mg/Kg	7	2	28.6%	3.50E-02	4.10E-02	8.50E-02	4.50E-01	8.96E-02	2.08E-01	--	1.08E+01	4.50E-01	Max Detect	Surface Soi
SVOC	bis(2-ETHYLHEXYL) PHTHALATE	mg/Kg	7	6	85.7%	3.60E-02	3.60E-02	3.70E-02	7.30E-02	5.16E-02	6.73E-02	--	6.60E-02	6.73E-02	Normal	Surface Soi
SVOC	CHRYSENE	mg/Kg	7	3	42.9%	3.70E-02	4.40E-02	1.90E-01	1.30E+00	2.53E-01	5.97E-01	--	1.77E+00	1.30E+00	Max Detect	Surface Soi
SVOC	DIBENZ(a,h)ANTHRACENE	mg/Kg	7	1	14.3%	4.20E-02	5.00E-02	1.80E-01	1.80E-01	4.45E-02	8.84E-02	--	5.71E+00	1.80E-01	Max Detect	Surface Soi
SVOC	DIBENZOFURAN	mg/Kg	7	1	14.3%	3.70E-02	4.40E-02	7.70E-01	7.70E-01	1.27E-01	3.35E-01	--	1.25E+02	7.70E-01	Max Detect	Surface Soi
SVOC	DI-n-BUTYL PHTHALATE	mg/Kg	7	6	85.7%	4.40E-02	4.40E-02	6.30E-02	4.60E-01	2.56E-01	3.84E-01	--	3.73E-01	3.84E-01	Normal	Surface Soi
SVOC	DI-n-OCTYLPHTHALATE	mg/Kg	7	1	14.3%	3.30E-02	3.90E-02	1.00E-01	1.00E-01	2.94E-02	5.22E-02	--	5.74E-01	1.00E-01	Max Detect	Surface Soi
SVOC	FLUORANTHENE	mg/Kg	7	3	42.9%	4.20E-02	4.90E-02	1.40E-01	2.10E+00	3.70E-01	9.34E-01	--	6.05E+00	2.10E+00	Max Detect	Surface Soi
SVOC	FLUORENE	mg/Kg	7	2	28.6%	3.70E-02	4.40E-02	5.40E-02	1.10E+00	1.79E-01	4.77E-01	--	5.33E+01	1.10E+00	Max Detect	Surface Soi
SVOC	INDENO(1,2,3-c,d)PYRENE	mg/Kg	7	3	42.9%	3.40E-02	4.00E-02	4.30E-02	5.30E-01	1.04E-01	2.43E-01	--	1.73E+00	5.30E-01	Max Detect	Surface Soi
SVOC	PHENANTHRENE	mg/Kg	7	3	42.9%	3.70E-02	4.40E-02	2.80E-01	4.20E+00	7.03E-01	1.84E+00	--	1.08E+01	4.20E+00	Max Detect	
SVOC	PYRENE	mg/Kg	7	3	42.9%	3.50E-02	4.10E-02	3.60E-01	3.10E+00	5.65E-01	1.40E+00	--	4.21E+00	3.10E+00	Max Detect	
TPH	DIESEL RANGE ORGANICS	mg/Kg	7	7	100.0%	--	--	4.00E+00	3.70E+02	6.53E+01	1.64E+02	--	1.01E+03	3.70E+02	Max Detect	Surface Soi
TPH	GASOLINE RANGE ORGANICS	mg/Kg	7	5	71.4%	4.00E-01	4.70E-01	3.30E-01	1.30E+00	4.99E-01	7.73E-01	--	1.08E+00	1.08E+00	Bootstrap-t	Surface Soi
VOC	1,2,4-TRIMETHYLBENZENE	mg/Kg	7	1	14.3%	1.50E-03	4.80E-03	8.50E-02	8.50E-02	1.33E-02	3.65E-02	--	9.99E-01	8.50E-02	Max Detect	Surface Soi
VOC	1,3,5-TRIMETHYLBENZENE (MESITYLENE)	mg/Kg	7	1	14.3%	2.40E-03	7.40E-03	1.30E-02	1.30E-02	3.69E-03	6.77E-03	--	1.78E-02	1.30E-02	Max Detect	Surface Soi
VOC	ACETONE	mg/Kg	7	5	71.4%	1.20E-02	1.70E-02	3.30E-02	2.60E-01	7.48E-02	1.43E-01	--	3.89E-01	2.60E-01	Max Detect	Surface Soi
VOC	ETHYLBENZENE	mg/Kg	7	1	14.3%	1.90E-03	6.10E-03	3.80E-02	3.80E-02	6.93E-03	1.70E-02	--	1.64E-01	3.80E-02	Max Detect	Surface Soi
VOC	HEXACHLOROBUTADIENE	mg/Kg	7	1	14.3%	4.20E-03	1.30E-02	2.40E-02	2.40E-02	6.54E-03	1.23E-02	--	4.47E-02	2.40E-02	Max Detect	Surface Soi
VOC	ISOPROPYLBENZENE (CUMENE)	mg/Kg	7	1	14.3%	8.20E-04	2.60E-03	1.20E-02	1.20E-02	2.35E-03	5.48E-03	--	4.16E-02	1.20E-02	Max Detect	Surface Soi
VOC	METHYL ETHYL KETONE (2-BUTANONE)	mg/Kg	7	5	71.4%	9.10E-03	1.60E-02	4.10E-02	1.30E-01	4.72E-02	7.78E-02	--	8.99E-02	7.78E-02	Normal	Surface Soi
VOC	METHYLENE CHLORIDE	mg/Kg	7	7	100.0%	--	--	1.85E-02	2.00E-01	7.36E-02	1.23E-01	--	2.17E-01	1.23E-01	Normal	Surface Soi
VOC	NAPHTHALENE	mg/Kg	7	3	42.9%	1.00E-03	2.40E-03	6.00E-02	3.60E-01	1.09E-01	2.31E-01	--	8.49E-01	3.60E-01	Max Detect	Surface Soi
VOC	O-XYLENE (1,2-DIMETHYLBENZENE)	mg/Kg	7	1	14.3%	2.90E-03	9.00E-03	9.70E-02	9.70E-02	1.61E-02	4.23E-02	--	7.25E-01	9.70E-02	Max Detect	Surface Soi
VOC	P-CYMENE (p-ISOPROPYLTOLUENE)	mg/Kg	7	1	14.3%	1.10E-03	3.50E-03	3.60E-02	3.60E-02	6.01E-03	1.57E-02	--	2.40E-01	3.60E-02	Max Detect	Surface Soi
VOC	TOLUENE	mg/Kg	7	3	42.9%	2.60E-03	8.00E-03	5.60E-03	6.20E-02	1.25E-02	2.87E-02	--	1.46E-01	6.20E-02	Max Detect	
VOC	XYLENES, m & p	mg/Kg	7	3	42.9%	1.50E-03	2.70E-03	1.30E-02	1.40E-01	2.50E-02	6.26E-02	--	2.76E-01	1.40E-01	Max Detect	

TABLE A-27
Summary Statistics for Constituents Detected in All Subsurface Soil
AVMA Subsurface Soils
Ft. Richardson

Chemical Class	Chemical Name	Units	Number of Samples Analyzed	Number of Detects	Frequency of Detects	Minimum MDL	Maximum MDL	Minimum Detected Result	Maximum Detected Result	Average Concentration	95% UCL Normal	95% UCL Lognormal	Bootstrap-t	Exposure Point Concentration	EPC Basis	Comment
CONV	TOTAL ORGANIC CARBON	mg/Kg	3	3	100.0%	--	--	1.80E+03	1.45E+04	8.30E+03	1.40E+04	--	4.03E+04	1.40E+04	Normal	Subsurface Soil
METAL	ALUMINUM	mg/Kg	21	21	100.0%	--	--	1.34E+04	2.61E+04	2.00E+04	2.12E+04	--	2.12E+04	2.12E+04	Normal	Subsurface Soil
METAL	ANTIMONY	mg/Kg	21	21	100.0%	--	--	9.00E-02	9.00E-01	3.84E-01	4.62E-01	--	4.79E-01	4.79E-01	Bootstrap-t	Subsurface Soil
METAL	ARSENIC	mg/Kg	24	20	83.3%	7.24E-01	1.20E+00	1.00E+00	1.10E+01	3.78E+00	4.77E+00	--	4.94E+00	4.77E+00	Normal	Subsurface Soil
METAL	BARIUM	mg/Kg	24	24	100.0%	--	--	3.70E+01	1.60E+02	7.99E+01	9.09E+01	--	9.21E+01	9.09E+01	Normal	Subsurface Soil
METAL	BERYLLIUM	mg/Kg	21	21	100.0%	--	--	3.06E-01	5.40E-01	4.15E-01	4.39E-01	--	4.40E-01	4.39E-01	Normal	Subsurface Soil
METAL	CADMIUM	mg/Kg	24	23	95.8%	5.60E-02	5.60E-02	7.10E-01	1.45E+00	9.37E-01	1.03E+00	--	1.02E+00	1.02E+00	Bootstrap-t	Subsurface Soil
METAL	CALCIUM	mg/Kg	21	21	100.0%	--	--	4.10E+03	1.21E+04	6.96E+03	7.73E+03	--	7.80E+03	7.73E+03	Normal	Subsurface Soil
METAL	CHROMIUM	mg/Kg	24	24	100.0%	--	--	2.04E+01	5.10E+01	3.57E+01	3.81E+01	--	3.80E+01	3.81E+01	Normal	Subsurface Soil
METAL	COBALT	mg/Kg	21	21	100.0%	--	--	7.60E+00	2.44E+01	1.25E+01	1.37E+01	--	1.45E+01	1.45E+01	Bootstrap-t	Subsurface Soil
METAL	COPPER	mg/Kg	21	21	100.0%	--	--	1.80E+01	3.71E+01	2.76E+01	2.92E+01	--	2.92E+01	2.92E+01	Normal	Subsurface Soil
METAL	IRON	mg/Kg	21	21	100.0%	--	--	2.70E+04	4.82E+04	3.50E+04	3.67E+04	--	3.70E+04	3.67E+04	Normal	Subsurface Soil
METAL	LEAD	mg/Kg	24	24	100.0%	--	--	3.13E+00	5.00E+01	1.29E+01	1.76E+01	--	1.96E+01	1.96E+01	Bootstrap-t	Subsurface Soil
METAL	MAGNESIUM	mg/Kg	21	21	100.0%	--	--	3.40E+03	3.59E+04	1.06E+04	1.30E+04	--	1.56E+04	1.56E+04	Bootstrap-t	Subsurface Soil
METAL	MANGANESE	mg/Kg	21	21	100.0%	--	--	3.40E+02	1.67E+03	6.37E+02	7.34E+02	--	8.63E+02	8.63E+02	Bootstrap-t	Subsurface Soil
METAL	MERCURY	mg/Kg	24	24	100.0%	--	--	3.70E-02	9.80E-02	6.07E-02	6.74E-02	--	6.78E-02	6.78E-02	Bootstrap-t	Subsurface Soil
METAL	NICKEL	mg/Kg	21	21	100.0%	--	--	1.60E+01	1.95E+02	4.49E+01	5.83E+01	--	9.50E+01	9.50E+01	Bootstrap-t	Subsurface Soil
METAL	POTASSIUM	mg/Kg	21	21	100.0%	--	--	6.30E+02	1.18E+03	8.57E+02	9.12E+02	--	9.19E+02	9.12E+02	Normal	Subsurface Soil
METAL	SELENIUM	mg/Kg	24	19	79.2%	1.30E+00	2.60E+00	2.60E+00	1.10E+01	4.89E+00	5.81E+00	--	5.79E+00	5.81E+00	Normal	Subsurface Soil
METAL	SODIUM	mg/Kg	21	21	100.0%	--	--	5.79E+01	3.10E+02	1.46E+02	1.73E+02	--	1.80E+02	1.80E+02	Bootstrap-t	Subsurface Soil
METAL	THALLIUM	mg/Kg	21	1	4.8%	4.90E-02	3.12E-01	2.70E-01	2.70E-01	7.40E-02	9.54E-02	--	1.03E-01	1.03E-01	Bootstrap-t	Subsurface Soil
METAL	VANADIUM	mg/Kg	21	21	100.0%	--	--	5.11E+01	8.70E+01	6.95E+01	7.27E+01	--	7.11E+01	7.11E+01	Bootstrap-t	Subsurface Soil
METAL	ZINC	mg/Kg	21	21	100.0%	--	--	5.20E+01	1.40E+02	6.81E+01	7.36E+01	--	7.43E+01	7.43E+01	Bootstrap-t	Subsurface Soil
PEST/PCB	ALPHA BHC	mg/Kg	23	5	21.7%	1.30E-04	6.05E-03	5.40E-04	1.10E-03	4.17E-04	6.49E-04	--	9.09E-04	9.09E-04	Bootstrap-t	Subsurface Soil
PEST/PCB	ALPHA-CHLORDANE	mg/Kg	20	5	25.0%	2.94E-04	7.74E-03	4.00E-04	5.40E-03	7.48E-04	1.28E-03	--	2.88E-03	2.88E-03	Bootstrap-t	Subsurface Soil
PEST/PCB	BETA BHC	mg/Kg	23	7	30.4%	2.20E-04	8.24E-03	5.67E-04	3.30E-03	7.88E-04	1.17E-03	--	1.45E-03	1.45E-03	Bootstrap-t	Subsurface Soil
PEST/PCB	DELTA BHC	mg/Kg	23	1	4.3%	1.30E-04	7.48E-03	8.60E-04	8.60E-04	3.85E-04	6.52E-04	--	2.60E-03	2.60E-03	Bootstrap-t	Subsurface Soil
PEST/PCB	DIELDRIN	mg/Kg	23	4	17.4%	2.30E-04	6.39E-03	3.60E-04	2.10E-03	4.41E-04	7.10E-04	--	1.28E-03	1.28E-03	Bootstrap-t	Subsurface Soil
PEST/PCB	ENDOSULFAN SULFATE	mg/Kg	23	6	26.1%	1.96E-04	7.09E-03	2.32E-04	6.50E-04	3.74E-04	6.28E-04	--	1.43E-03	1.43E-03	Bootstrap-t	Subsurface Soil
PEST/PCB	ENDRIN	mg/Kg	23	5	21.7%	3.00E-04	7.03E-03	1.20E-03	2.50E-03	7.20E-04	1.06E-03	--	1.22E-03	1.22E-03	Bootstrap-t	Subsurface Soil
PEST/PCB	ENDRIN ALDEHYDE	mg/Kg	23	4	17.4%	3.50E-04	7.94E-03	1.28E-03	2.83E-03	7.63E-04	1.10E-03	--	1.39E-03	1.39E-03	Bootstrap-t	Subsurface Soil
PEST/PCB	ENDRIN KETONE	mg/Kg	23	4	17.4%	2.28E-04	5.47E-03	3.20E-04	1.90E-03	3.99E-04	6.40E-04	--	8.94E-04	8.94E-04	Bootstrap-t	Subsurface Soil
PEST/PCB	GAMMA-CHLORDANE	mg/Kg	20	1	5.0%	3.82E-04	7.91E-03	5.70E-03	5.70E-03	6.96E-04	1.25E-03	--	1.77E-02	5.70E-03	Max Detect	Subsurface Soil
PEST/PCB	HEPTACHLOR	mg/Kg	23	2	8.7%	1.10E-04	6.71E-03	1.70E-03	2.30E-03	6.42E-04	9.27E-04	--	1.17E-03	1.17E-03	Bootstrap-t	Subsurface Soil
PEST/PCB	HEPTACHLOR EPOXIDE	mg/Kg	23	2	8.7%	1.70E-04	7.12E-03	1.40E-03	2.50E-03	5.39E-04	8.41E-04	--	1.37E-03	1.37E-03	Bootstrap-t	Subsurface Soil
PEST/PCB	METHOXYCHLOR	mg/Kg	23	5	21.7%	8.00E-04	2.68E-02	2.50E-03	6.30E-03	1.87E-03	2.91E-03	--	4.45E-03	4.45E-03	Bootstrap-t	Subsurface Soil
PEST/PCB	p,p'-DDD	mg/Kg	23	11	47.8%	1.10E-04	3.79E-03	7.64E-04	3.80E-02	6.45E-03	9.98E-03	--	1.16E-02	1.16E-02	Bootstrap-t	Subsurface Soil
PEST/PCB	p,p'-DDE	mg/Kg	23	13	56.5%	1.40E-04	4.48E-03	5.52E-04	3.90E-02	3.90E-03	6.86E-03	--	1.26E-02	1.26E-02	Bootstrap-t	Subsurface Soil
PEST/PCB	p,p'-DDT	mg/Kg	23	14	60.9%	1.70E-04	5.05E-03	4.56E-03	2.40E-01	2.41E-02	4.21E-02	--	7.34E-02	7.34E-02	Bootstrap-t	Subsurface Soil
SVOC	2,4-DIMETHYLPHENOL	mg/Kg	25	1	4.0%	8.90E-03	2.20E-01	1.10E-02	1.10E-02	2.31E-02	2.98E-02	--	4.23E-02	4.23E-02	Bootstrap-t	Subsurface Soil
SVOC	2-METHYLNAPHTHALENE	mg/Kg	25	8	32.0%	4.90E-03	1.10E-01	3.70E-02	1.50E+00	1.69E-01	2.88E-01	--	4.17E-01	4.17E-01	Bootstrap-t	Subsurface Soil
SVOC	2-METHYLPHENOL (o-CRESOL)	mg/Kg	25	1	4.0%	5.10E-03	2.80E-01	1.10E-02	1.10E-02	2.84E-02	3.71E-02	--	4.92E-02	4.92E-02	Bootstrap-t	Subsurface Soil
SVOC	4-CHLORO-3-METHYLPHENOL	mg/Kg	25	1	4.0%	9.00E-03	2.10E-01	3.90E-02	3.90E-02	2.29E-02	2.94E-02	--	3.81E-02	3.81E-02	Bootstrap-t	Subsurface Soil
SVOC	ACENAPHTHENE	mg/Kg	25	4	16.0%	2.07E-04	2.30E-01	3.05E-02	3.50E+00	2.13E-01	4.61E-01	--	6.80E+00	3.50E+00	Max Detect	Subsurface Soil
SVOC	ACENAPHTHYLENE	mg/Kg	25	1	4.0%	6.22E-04	2.20E-01	3.80E-02	3.80E-02	2.29E-02	2.99E-02	--	3.68E-02	3.68E-02	Bootstrap-t	Subsurface Soil
SVOC	ANTHRACENE	mg/Kg	25	7	28.0%	2.65E-04	2.10E-01	4.20E-02	5.40E+00	2.91E-01	6.62E-01	--	1.07E+01	5.40E+00	Max Detect	Subsurface Soil
SVOC	BENZO(a)ANTHRACENE	mg/Kg	25	8	32.0%	5.36E-04	8.60E-02	6.90E-02	4.90E+01	2.05E+00	5.40E+00	--	3.11E+02	4.90E+01	Max Detect	Subsurface Soil
SVOC	BENZO(a)PYRENE	mg/Kg	25	6	24.0%	9.22E-04	1.70E-01	5.10E-02	5.10E+00	2.77E-01	6.29E-01	--	7.23E+00	5.10E+00	Max Detect	Subsurface Soil
SVOC	BENZO(b)FLUORANTHENE	mg/Kg	25	6	24.0%	3.49E-04	1.50E-01	4.90E-02	2.20E+00	1.59E-01	3.22E-01	--	2.00E+00	2.00E+00	Bootstrap-t	Subsurface Soil
SVOC	BENZO(g,h,i)PERYLENE	mg/Kg	25	5	20.0%	4.81E-04	2.30E-01	4.70E-02	3.50E+00	1.88E-01	4.26E-01	--	3.97E+00	3.50E+00	Max Detect	Subsurface Soil
SVOC	BENZO(k)FLUORANTHENE	mg/Kg	25	3	12.0%	2.18E-04	2.00E-01	8.50E-02	2.20E+00	1.28E-01	2.78E-01	--	2.35E+00	2.20E+00	Max Detect	Subsurface Soil
SVOC	bis(2-ETHYLHEXYL) PHTHALATE	mg/Kg	25	12	48.0%	1.10E-02	2.00E-01	1.40E-02	7.95E-02	4.11E-02	5.10E-02	--	5.21E-02	5.21E-02	Bootstrap-t	Subsurface Soil
SVOC	CHRYSENE	mg/Kg	25	8	32.0%	2.62E-04	8.60E-02	8.50E-02	2.40E+01	1.09E+00	2.73E+00	--	2.58E+01	2.40E+01	Max Detect	Subsurface Soil
SVOC	DIBENZ(a,h)ANTHRACENE	mg/Kg	25	1	4.0%	3.41E-04	2.40E-01	1.80E-01	1.80E-01	2.99E-02	4.31E-02	--	7.16E-02	7.16E-02	Bootstrap-t	Subsurface Soil
SVOC	DIBENZOFURAN	mg/Kg	25	4	16.0%	6.90E-03	2.10E-01	1.70E-02	1.30E+00	1.07E-01	2.06E-01	--	1.21E+00	1.21E+00	Bootstrap-t	Subsurface Soil
SVOC	DI-n-BUTYL PHTHALATE	mg/Kg	25	18	72.0%	4.30E-02	1.00E-01	6.30E-02	9.60E-01	2.92E-01	3.85E-01	--	3.97E-01	3.97E-01	Bootstrap-t	Subsurface Soil
SVOC	DI-n-OCTYLPHTHALATE	mg/Kg	25	1	4.0%	8.20E-03	1.90E-01	1.00E-01	1.00E-01	2.28E-02	3.09E-02	--	4.76E-02	4.76E-02	Bootstrap-t	Subsurface Soil
SVOC	FLUORANTHENE	mg/Kg	25	7	28.0%	6.15E-04	2.40E-01	6.60E-02	5.10E+00	3.36E-01	7.04E-01	--	5.73E+00	5.10E+00	Max Detect	Subsurface Soil
SVOC	FLUORENE	mg/Kg	25	7	28.0%	2.53E-04	8.60E-02	3.25E-02	2.90E+00	1.91E-01	3.98E-01	--	2.35E+00	2.35E+00	Bootstrap-t	Subsurface Soil
SVOC	INDENO(1,2,3-c,d)PYRENE	mg/Kg	25	4	16.0%	4.73E-04	1.90E-01	4.30E-02	4.10E+00	2.07E-01	4.87E-01	--	7.16E+00	4.10E+00	Max Detect	Subsurface Soil
SVOC	PHENANTHRENE	mg/Kg	25	8	32.0%	2.96E-04	8.60E-02	1.60E-01	1.10E+01	6.98E-01	1.49E+00	--	1.10E+01	1.10E+01	Max Detect	Subsurface Soil
SVOC	PHENOL	mg/Kg	25	1	4.0%	1.30E-02	2.00E-01	1.80E-02	1.80E-02	2.15E-02	2.75E-02	--	4.15E-02	4.15E-02	Bootstrap-t	Subsurface Soil
SVOC	PYRENE	mg/Kg	25	8	32.0%	3.72E-04	8.10E-02	7.50E-02	5.10E+00	4.13E-01	8.09E-01	--	3.03E+00	3.03E+00	Bootstrap-t	Subsurface Soil
TPH	DIESEL RANGE ORGANICS	mg/Kg	25	23	92.0%	6.20E-01	1.70E+01	7.80E-01	3.80E+03	2.02E+02	4.61E+02	--	2.03E+03	2.03E+03	Bootstrap-t	Subsurface Soil
TPH	GASOLINE RANGE ORGANICS	mg/Kg	25	14	56.0%	1.60E-01	1.80E+00	2.80E-01	6.00E+00	7.76E-01	1.20E+00	--	2.26E+00	2.26E+00	Bootstrap-t	Subsurface Soil
TPH	RESIDUAL RANGE ORGANICS	mg/Kg	4	2	50.0%	1.08E+01	1.70E+01	4.90E+02	1.45E+03	4.88E+02	1.29E+03	--	1.84E+05	1.29E+03	Normal	Subsurface Soil
VOC	1,2,3-TRICHLOROBENZENE	mg/Kg	24	1	4.2%	1.90E-04	1.80E-02	7.80E-03	7.80E-03	1.92E-03	2.68E-03	--	3.67E-03	3.67E-03	Bootstrap-t	Subsurface Soil
VOC	1,2,4-TRIMETHYLBENZENE	mg/Kg	24	4	16.7%	1.90E-04	7.00E-03	1.40E-02	8.50E-02	9.19E-03	1.71E-02	--	5.04E-02	5.04E-02	Bootstrap-t	Subsurface Soil
VOC	1,3,5-TRIMETHYLBENZENE (MESITYLENE)	mg/Kg	24	3	12.5%	1.90E-04	1.10E-02	7.90E-03	1.80E-02	3.22E-03	4.70E-03	--	6.39E-03	6.39E-03	Bootstrap-t	Subsurface Soil
VOC	ACETONE	mg/Kg	24	14	58.3%	1.10E-02	9.00E-02	8.80E-03	1.40E+00	1.07E-01	2.06E-01	--	5.92E-01	5.92E-01	Bootstrap-t	Subsurface Soil
VOC	BENZENE	mg/Kg	24	3	12.5%	1.90E-04	8.40E-03	2.70E-04	2.40E-02	2.42E-03	4.05E-03	--	1.02E-02	1.02E-02	Bootstrap-t	Subsurface Soil
VOC	CARBON DISULFIDE	mg/Kg	24	1	4.2%	2.30E-04	6.10E-03	2.30E-04	2.30E-04	1.12E-03	1.36E-03	--	1.40E-03	1.36E-03	Normal	Subsurface Soil
VOC	ETHYLBENZENE	mg/Kg	24	4	16.7%	1.90E-04	8.90E-03	8.20E-03	3.90E-02	5.35E-03	9.08E-03	--	1.80E-02	1.80E-02	Bootstrap-t	Subsurface Soil
VOC	HEXACHLOROBUTADIENE	mg/Kg	25	2	8.0%	1.90E-04	6.90E-02	7.10E-03	2.40E-02	5.52E-03	8.13E-03	--	1.33E-02	1.33E-02	Bootstrap-t	Subsurface Soil
VOC	IODOMETHANE (METHYL IODIDE)	mg/Kg	21	1	4.8%	3.70E-03	2.30E-02	8.50E-02	8.50E-02	8.24E-03	1.49E-02	--	4.93E-02	4.93E-02	Bootstrap-t	Subsurface Soil
VOC	ISOPROPYLBENZENE (CUMENE)	mg/Kg	24	2	8.3%	1.90E-04	3.70E-03	1.10E-02	1.20E-02	1.60E-03	2.68E-03	--	7.94E-03	7.94E-03	Bootstrap-t	Subsurface Soil
VOC	METHYL ETHYL KETONE (2-BUTANONE)	mg/Kg	24	15	62.5%	9.50E-04	2.50E-02	8.80E-03	4.60E-01	5.63E-02	8.96E-02	--	1.35E-01	1.35E-01	Bootstrap-t	Subsurface Soil
VOC	METHYLENE CHLORIDE	mg/Kg	24	20	83.3%	1.90E-04	4.00E-02	1.40E-02	3.10E-01	6.47E-02	9.07E-02	--	1.02E-01	1.02E-01	Bootstrap-t	Subsurface Soil
VOC	NAPHTHALENE	mg/Kg	25	9	36.0%	1.90E-04	1.70E-02	2.95E-02	8.80E-01	1.18E-01	2.02E-01	--	2.88E-01	2.88E-01	Bootstrap-t	Subsurface Soil

TABLE A-28
Summary Statistics for Constituents Detected in Groundwater
AVMA Groundwater
Ft. Richardson

Chemical Class	Chemical Name	Units	Number of Samples Analyzed	Number of Detects	Frequency of Detects	Minimum MDL	Maximum MDL	Minimum Detected Result	Maximum Detected Result	Average Concentration	95% UCL Normal	95% UCL Lognormal	Bootstrap-t	Comment
METAL	ALUMINUM	mg/L	20	17	85.0%	1.60E-02	1.60E-02	1.70E-02	6.10E+02	4.23E+01	--	--	--	Groundwater
METAL	ANTIMONY	mg/L	20	2	10.0%	1.40E-02	1.40E-02	1.60E-02	6.00E-02	1.01E-02	--	--	--	Groundwater
METAL	ARSENIC	mg/L	20	4	20.0%	1.70E-02	1.70E-02	2.00E-02	1.30E-01	1.74E-02	--	--	--	Groundwater
METAL	BARIUM	mg/L	20	20	100.0%			4.40E-03	3.50E+00	2.85E-01	--	--	--	Groundwater
METAL	BERYLLIUM	mg/L	20	4	20.0%	2.00E-04	2.00E-04	2.30E-04	1.60E-02	1.31E-03	--	--	--	Groundwater
METAL	CADMIUM	mg/L	20	3	15.0%	2.00E-03	2.00E-03	3.45E-03	3.50E-02	3.03E-03	--	--	--	Groundwater
METAL	CALCIUM	mg/L	20	20	100.0%			3.80E+01	5.40E+02	9.58E+01	--	--	--	Groundwater
METAL	CHROMIUM	mg/L	20	20	100.0%			2.90E-03	1.70E+00	1.82E-01	--	--	--	Groundwater
METAL	COBALT	mg/L	20	11	55.0%	1.50E-03	1.50E-03	1.50E-03	4.10E-01	2.99E-02	--	--	--	Groundwater
METAL	COPPER	mg/L	20	11	55.0%	1.20E-03	1.20E-03	1.80E-03	1.20E+00	9.45E-02	--	--	--	Groundwater
METAL	IRON	mg/L	20	20	100.0%			2.55E-02	1.20E+03	7.63E+01	--	--	--	Groundwater
METAL	LEAD	mg/L	20	3	15.0%	1.40E-02	1.40E-02	2.65E-02	1.80E-01	2.10E-02	--	--	--	Groundwater
METAL	MAGNESIUM	mg/L	20	20	100.0%			6.80E+00	3.70E+02	3.25E+01	--	--	--	Groundwater
METAL	MANGANESE	mg/L	20	16	80.0%	5.00E-04	5.00E-04	1.10E-03	2.20E+01	1.48E+00	--	--	--	Groundwater
METAL	MERCURY	mg/L	20	10	50.0%	3.00E-05	1.00E-04	3.80E-05	3.30E-03	2.58E-04	--	--	--	Groundwater
METAL	NICKEL	mg/L	20	12	60.0%	8.20E-03	8.20E-03	1.10E-02	1.40E+00	1.37E-01	--	--	--	Groundwater
METAL	POTASSIUM	mg/L	20	20	100.0%			4.45E-01	4.20E+01	4.33E+00	--	--	--	Groundwater
METAL	SELENIUM	mg/L	20	3	15.0%	2.70E-02	2.70E-02	3.20E-02	3.70E-01	3.50E-02	--	--	--	Groundwater
METAL	SILVER	mg/L	20	1	5.0%	4.30E-03	4.30E-03	6.20E-03	6.20E-03	2.35E-03	--	--	--	Groundwater
METAL	SODIUM	mg/L	20	20	100.0%			2.75E+00	1.30E+02	1.39E+01	--	--	--	Groundwater
METAL	VANADIUM	mg/L	20	7	35.0%	3.50E-03	3.50E-03	1.70E-02	1.90E+00	1.21E-01	--	--	--	Groundwater
METAL	ZINC	mg/L	20	17	85.0%	1.00E-03	1.00E-03	1.90E-03	2.70E+00	2.64E-01	--	--	--	Groundwater
METAL_DISS	ARSENIC_DISS	mg/L	5	1	20.0%	1.70E-02	1.70E-02	5.90E-02	5.90E-02	1.86E-02	--	--	--	Groundwater
METAL_DISS	BARIUM_DISS	mg/L	5	5	100.0%			8.30E-03	6.70E-02	2.72E-02	--	--	--	Groundwater
METAL_DISS	CALCIUM_DISS	mg/L	5	5	100.0%			5.50E+01	8.50E+01	7.22E+01	--	--	--	Groundwater
METAL_DISS	CHROMIUM_DISS	mg/L	5	4	80.0%	2.00E-03	2.00E-03	2.50E-03	4.00E-03	2.70E-03	--	--	--	Groundwater
METAL_DISS	COBALT_DISS	mg/L	5	2	40.0%	1.50E-03	1.50E-03	2.10E-03	2.10E-03	1.29E-03	--	--	--	Groundwater
METAL_DISS	COPPER_DISS	mg/L	5	3	60.0%	1.20E-03	1.20E-03	1.40E-03	2.40E-03	1.38E-03	--	--	--	Groundwater
METAL_DISS	IRON_DISS	mg/L	5	5	100.0%			1.70E-02	9.55E-02	4.75E-02	--	--	--	Groundwater
METAL_DISS	MAGNESIUM_DISS	mg/L	5	5	100.0%			8.40E+00	2.20E+01	1.15E+01	--	--	--	Groundwater
METAL_DISS	MANGANESE_DISS	mg/L	5	3	60.0%	5.00E-04	5.00E-04	1.20E-03	1.70E-01	5.17E-02	--	--	--	Groundwater
METAL_DISS	MERCURY_DISS	mg/L	5	4	80.0%	1.00E-04	1.00E-04	3.30E-05	2.00E-03	4.38E-04	--	--	--	Groundwater
METAL_DISS	POTASSIUM_DISS	mg/L	5	5	100.0%			7.40E-01	1.80E+00	1.17E+00	--	--	--	Groundwater
METAL_DISS	SODIUM_DISS	mg/L	5	5	100.0%			3.30E+00	6.80E+00	4.25E+00	--	--	--	Groundwater
METAL_DISS	ZINC_DISS	mg/L	5	5	100.0%			2.10E-03	4.90E-02	1.44E-02	--	--	--	Groundwater
PEST/	BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	mg/L	6	3	50.0%	4.40E-06	5.00E-06	6.50E-06	1.10E-05	5.36E-06	--	--	--	Groundwater
PEST/	ENDRIN ALDEHYDE	mg/L	6	1	16.7%	7.70E-06	8.60E-06	9.40E-06	9.40E-06	4.93E-06	--	--	--	Groundwater
PEST/	HEPTACHLOR	mg/L	6	2	33.3%	6.80E-06	7.60E-06	7.10E-06	8.20E-06	4.93E-06	--	--	--	Groundwater
SVOC	2-METHYLNAPHTHALENE	mg/L	37	5	13.5%	1.10E-05	1.30E-05	3.30E-05	6.00E-05	1.16E-05	--	--	--	Groundwater
SVOC	ACENAPHTHENE	mg/L	37	1	2.7%	8.40E-06	1.00E-05	2.20E-05	2.20E-05	5.15E-06	--	--	--	Groundwater
SVOC	BENZO(a)PYRENE	mg/L	37	1	2.7%	1.10E-05	2.60E-05	1.70E-04	1.70E-04	1.50E-05	--	--	--	Groundwater
SVOC	BENZO(b)FLUORANTHENE	mg/L	37	2	5.4%	1.30E-05	1.60E-05	5.60E-05	2.20E-04	1.44E-05	--	--	--	Groundwater
SVOC	BENZO(g,h,i)PERYLENE	mg/L	37	2	5.4%	1.30E-05	3.60E-05	3.20E-05	2.10E-04	2.03E-05	--	--	--	Groundwater
SVOC	BENZO(k)FLUORANTHENE	mg/L	37	1	2.7%	1.50E-05	3.80E-05	1.60E-04	1.60E-04	1.94E-05	--	--	--	Groundwater
SVOC	BENZYL ALCOHOL	mg/L	36	2	5.6%	6.00E-04	7.30E-04	1.40E-03	1.05E-02	6.42E-04	--	--	--	Groundwater
SVOC	bis(2-ETHYLHEXYL) PHTHALATE	mg/L	36	3	8.3%	7.60E-04	1.90E-03	2.00E-03	2.30E-03	7.92E-04	--	--	--	Groundwater
SVOC	DIBENZ(a,h)ANTHRACENE	mg/L	37	3	8.1%	1.60E-05	5.90E-05	3.20E-05	2.40E-04	3.04E-05	--	--	--	Groundwater
SVOC	DIMETHYL PHTHALATE	mg/L	36	1	2.8%	2.90E-04	5.20E-04	1.40E-03	1.40E-03	2.34E-04	--	--	--	Groundwater
SVOC	DI-n-BUTYL PHTHALATE	mg/L	36	16	44.4%	3.90E-04	1.80E-03	1.80E-03	1.10E-02	2.25E-03	--	--	--	Groundwater
SVOC	DI-n-OCTYLPHTHALATE	mg/L	36	1	2.8%	2.90E-04	7.00E-04	2.00E-03	2.00E-03	2.95E-04	--	--	--	Groundwater
SVOC	FLUORENE	mg/L	37	1	2.7%	8.80E-06	1.10E-05	2.20E-05	2.20E-05	5.37E-06	--	--	--	Groundwater
SVOC	INDENO(1,2,3-c,d)PYRENE	mg/L	37	2	5.4%	1.30E-05	7.60E-05	4.30E-05	2.20E-04	3.51E-05	--	--	--	Groundwater
SVOC	PHENANTHRENE	mg/L	37	3	8.1%	8.10E-06	1.00E-05	2.40E-05	5.20E-05	6.84E-06	--	--	--	Groundwater
SVOC	PHENOL	mg/L	36	3	8.3%	3.40E-04	6.50E-04	2.20E-03	2.80E-03	4.33E-04	--	--	--	Groundwater
TPH	DIESEL RANGE ORGANICS	mg/L	37	10	27.0%	2.10E-02	5.90E-02	3.80E-02	1.80E+00	1.07E-01	--	--	--	Groundwater
TPH	GASOLINE RANGE ORGANICS	mg/L	37	28	75.7%	6.80E-03	2.80E-02	4.10E-03	7.30E-02	1.13E-02	--	--	--	Groundwater

TABLE A-28

Summary Statistics for Constituents Detected in Groundwater

AVMA Groundwater

Ft. Richardson

Chemical Class	Chemical Name	Units	Number of Samples Analyzed	Number of Detects	Frequency of Detects	Minimum MDL	Maximum MDL	Minimum Detected Result	Maximum Detected Result	Average Concentration	95% UCL Normal	95% UCL Lognormal	Bootstrap-t	Comment
TPH	RESIDUAL RANGE ORGANICS	mg/L	25	10	40.0%	7.90E-02	3.30E-01	9.00E-02	2.30E-01	9.53E-02	--	--	--	Groundwater
VOC	1,1,1-TRICHLOROETHANE	mg/L	37	3	8.1%	5.90E-05	6.10E-04	2.90E-04	1.10E-03	1.28E-04	--	--	--	Groundwater
VOC	1,2-DICHLOROBENZENE	mg/L	37	2	5.4%	7.40E-05	4.20E-04	1.60E-04	1.90E-03	1.14E-04	--	--	--	Groundwater
VOC	1,3-DICHLOROBENZENE	mg/L	37	1	2.7%	8.60E-05	4.00E-04	1.90E-04	1.90E-04	6.97E-05	--	--	--	Groundwater
VOC	1,4-DICHLOROBENZENE	mg/L	37	1	2.7%	7.10E-05	6.50E-04	2.00E-04	2.00E-04	7.10E-05	--	--	--	Groundwater
VOC	ACETONE	mg/L	36	3	8.3%	1.30E-04	5.10E-03	2.40E-03	6.50E-03	1.31E-03	--	--	--	Groundwater
VOC	BENZENE	mg/L	37	4	10.8%	2.00E-05	1.50E-04	1.10E-04	3.80E-04	5.98E-05	--	--	--	Groundwater
VOC	BROMODICHLOROMETHANE	mg/L	37	1	2.7%	4.60E-05	4.20E-04	4.20E-04	4.20E-04	6.25E-05	--	--	--	Groundwater
VOC	CARBON DISULFIDE	mg/L	37	2	5.4%	6.80E-05	4.60E-04	1.10E-04	4.60E-04	6.29E-05	--	--	--	Groundwater
VOC	CARBON TETRACHLORIDE	mg/L	37	13	35.1%	7.40E-05	4.30E-04	1.30E-04	2.20E-03	2.94E-04	--	--	--	Groundwater
VOC	CHLOROFORM	mg/L	37	18	48.6%	7.60E-05	4.60E-04	1.40E-04	7.00E-03	7.41E-04	--	--	--	Groundwater
VOC	CHLOROMETHANE	mg/L	37	10	27.0%	7.10E-05	1.10E-03	1.00E-04	4.45E-03	3.43E-04	--	--	--	Groundwater
VOC	METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	mg/L	37	2	5.4%	9.40E-05	3.60E-04	3.00E-04	8.40E-04	8.87E-05	--	--	--	Groundwater
VOC	METHYLENE CHLORIDE	mg/L	37	18	48.6%	1.80E-04	1.20E-03	4.80E-04	6.00E-03	9.56E-04	--	--	--	Groundwater
VOC	NAPHTHALENE	mg/L	37	7	18.9%	1.00E-05	3.00E-05	3.60E-05	2.20E-03	7.42E-05	--	--	--	Groundwater
VOC	P-CYMENE (p-ISOPROPYLTOLUENE)	mg/L	37	3	8.1%	3.90E-05	5.50E-04	1.10E-04	1.60E-04	5.22E-05	--	--	--	Groundwater
VOC	tert-BUTYL METHYL ETHER	mg/L	37	1	2.7%	4.00E-05	3.60E-04	1.70E-04	1.70E-04	4.29E-05	--	--	--	Groundwater
VOC	TETRACHLOROETHYLENE(PCE)	mg/L	37	11	29.7%	5.90E-05	1.20E-04	2.60E-04	1.00E-01	8.52E-03	--	--	--	Groundwater
VOC	TOLUENE	mg/L	37	23	62.2%	6.70E-05	2.40E-04	9.00E-05	1.20E-03	2.34E-04	--	--	--	Groundwater
VOC	TRICHLOROETHYLENE (TCE)	mg/L	37	1	2.7%	8.10E-05	5.50E-04	1.60E-04	1.60E-04	7.06E-05	--	--	--	Groundwater
VOC	XYLENES, TOTAL	mg/L	25	1	4.0%	6.00E-05	6.30E-04	6.70E-04	6.70E-04	3.04E-04	--	--	--	Groundwater

Notes:

PCB - polychlorinated biphenyl
PEST - pesticide
VOC = volatile organic compound
SVOC = semivolatile organic compound
mg/kg = milligrams per kilogram
MDL - method detection limit

Appendix B
Methodology for Calculating Exposure Point Concentrations

Methodology for Calculating Exposure Point Concentrations

The exposure point concentrations (EPC) for OUE were calculated using the best statistical estimate of an upper bound on the average exposure concentrations, using EPA guidance for statistical analysis of monitoring data (EPA, 2002), where appropriate. An EPC is calculated for each chemical within each data group. EPCs were statistically calculated for surface soil and subsurface soil data groups, as defined by the conceptual site models for OUE (Section 2). The process for calculating the EPCs for each data group identified for OUE is shown in the attached decision flow chart and described in the following steps:

- Replace the nondetect values with proxy values equal to one-half of the detection limit.
- Transform the original data set (detects plus proxy nondetect values) by calculating the natural logarithm of each value.
- Test the normality of both the original and log-transformed data sets using the Shapiro-Wilk (EPA, 1992) test for 50 or fewer samples or the D'Agostino test (Gilbert, 1987) for greater than 50 samples.
- Calculate a parametric 95 percent upper confidence limit (UCL_{95}) using the data set with the best fit normality characteristics.

If the data set were distributed normally, the UCL_{95} was calculated using the following formula (EPA, 1992):

$$UCL = \bar{x} + t_{n-1}\left(\frac{s}{\sqrt{n}}\right) \quad (1)$$

where:

UCL = upper confidence limit
$\bar{x}$ = mean of the untransformed data
t = Student-t statistic (Gilbert, 1987, Table A2)
s = standard deviation of the untransformed data
n = number of samples

If the data set were distributed lognormally, the UCL_{95} was calculated using the following formula (EPA, 1992):

$$UCL = e^{\left(\bar{x}+0.5s^2+sH/\sqrt{n-1}\right)} \quad (2)$$

where:

UCL = upper confidence limit
e = constant (base of the natural log, equal to 2.718)
$\bar{x}$ = mean of the log-transformed data

s = standard deviation of the log-transformed data
H = H-statistic (Gilbert, 1987, Table A12)
n = number of samples

If the Shapiro-Wilk test (or the D'Agostino test) indicates that the data follow both normal and lognormal distributions, the distribution with the largest W-test statistic (the best fit) was selected, and the UCL_{95} was calculated using either Equation 1 or Equation 2, as appropriate.

Alternatively, if the Shapiro-Wilk test (or the D'Agostino test) indicates that the data do not follow either normal and lognormal distributions, the bootstrap t method was used to calculate the UCL (EPA, 2002).

Although earlier guidance (EPA, 1992) stated that lognormality should be used as the default assumption for the calculation of the UCL, subsequent guidance documents (EPA, 1997a and 2002) warn of the poor estimates afforded by lognormal UCLs when samples size is small (less than 30) or the distribution is not actually lognormal. Due to the skewed nature of the lognormal distribution, poor estimates of the mean are often elevated well beyond the maximum detected concentration. EPA guidance allows for the use of the maximum detected concentration as the EPC in these circumstances.

Probabilistic UCLs are considered adept at providing suitable estimates of the mean when the statistical distribution of the population cannot be correctly identified (EPA 1997a, 1997b, 2002). A popular probabilistic approach involves the bootstrap UCL. The bootstrap method is considered nonparametric because it requires no assumption regarding the statistical distribution of the target population. There are many variations of the bootstrap method, but each relies on Monte Carlo resampling techniques, in which each bootstrap sample is resampled from the data set with the same sample size as the original data set. The bootstrap t method (Efron and Tibshirani, 1993) was used to calculate EPCs for each constituent that fit neither a normal or lognormal distribution. For these EPCs, 1,000 bootstrap resamples were used for each constituent.

References

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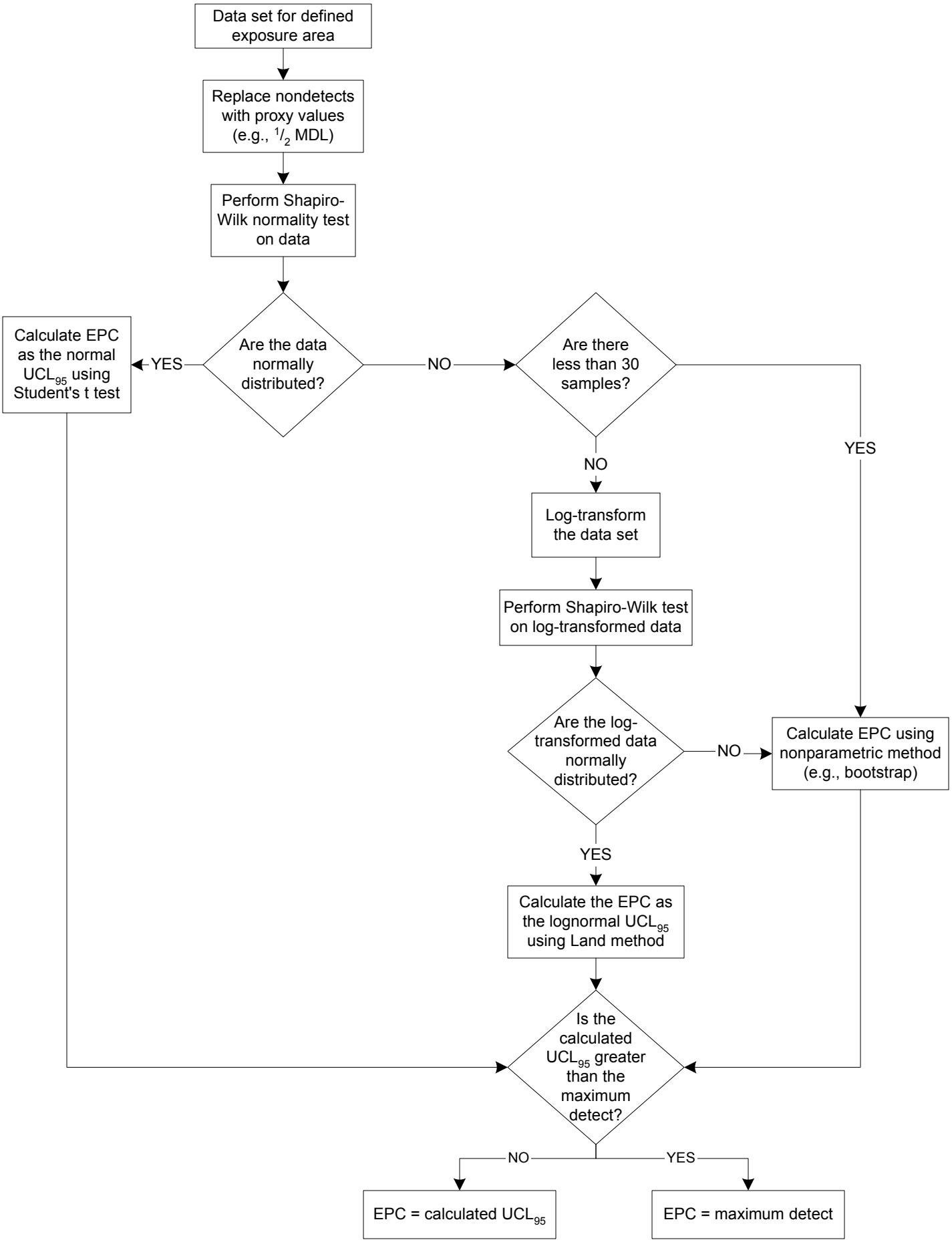
Table 3 Statistical Identification of Exposure Point Concentrations (EPCs)



Appendix C
Risk Calculation Data Tables

Table C-1
Current Site Specific Worker Scenario - Potential Excess Lifetime Cancer Risk
Surface Soil - All Building 35-752 Areas
Fort Richardson - Operable Unit E

Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC (mg/kg)	ABS_d	ABS_{gi}	Ingestion CDI (mg/kg-day)	Ingestion ELCR	Dermal CDI (mg/kg-day)	Dermal ELCR	Inhalation CDI (mg/kg-day)	Inhalation ELCR	Total ELCR	% Contribution
1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	B2	1.50E+03	1.50E+03	1.50E+03	8.59E-05	3.00E-02	1.00E+00	2.16E-12	3.2E-09	4.28E-13	6.4E-10	3.32E-16	5.0E-13	3.9E-09	1
1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXI	B2	1.50E+03	1.50E+03	1.50E+03	3.11E-04	3.00E-02	1.00E+00	7.82E-12	1.2E-08	1.55E-12	2.3E-09	1.20E-15	1.8E-12	1.4E-08	2
1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	B2	1.50E+03	1.50E+03	1.50E+03	1.28E-05	3.00E-02	1.00E+00	3.23E-13	4.8E-10	6.39E-14	9.6E-11	4.97E-17	7.4E-14	5.8E-10	0
1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	B2	1.50E+04	1.50E+04	1.50E+04	2.76E-05	3.00E-02	1.00E+00	6.93E-13	1.0E-08	1.37E-13	2.1E-09	1.07E-16	1.6E-12	1.2E-08	2
1,2,3,4,7,8-HEXACHLORODIBENZO-p-DIOXIN	B2	1.50E+04	1.50E+04	1.50E+04	2.10E-06	3.00E-02	1.00E+00	5.29E-14	7.9E-10	1.05E-14	1.6E-10	8.14E-18	1.2E-13	9.5E-10	0
1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	B2	1.50E+04	1.50E+04	1.50E+04	3.86E-06	3.00E-02	1.00E+00	9.71E-14	1.5E-09	1.92E-14	2.9E-10	1.49E-17	2.2E-13	1.7E-09	0
1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	B2	1.50E+04	1.50E+04	1.50E+04	7.05E-06	3.00E-02	1.00E+00	1.77E-13	2.7E-09	3.51E-14	5.3E-10	2.73E-17	4.1E-13	3.2E-09	1
1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	B2	1.50E+04	1.50E+04	1.50E+04	3.63E-06	3.00E-02	1.00E+00	9.13E-14	1.4E-09	1.81E-14	2.7E-10	1.40E-17	2.1E-13	1.6E-09	0
1,2,3,7,8-PENTACHLORODIBENZOFURAN	B2	7.50E+03	7.50E+03	7.50E+03	8.32E-05	3.00E-02	1.00E+00	2.09E-12	1.6E-08	4.14E-13	3.1E-09	3.22E-16	2.4E-12	1.9E-08	3
1,2,3,7,8-PENTACHLORODIBENZO-p-DIOXIN	B2	1.50E+05	1.50E+05	1.50E+05	6.40E-07	3.00E-02	1.00E+00	1.61E-14	2.4E-09	3.19E-15	4.8E-10	2.48E-18	3.7E-13	2.9E-09	0
2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	B2	1.50E+04	1.50E+04	1.50E+04	3.14E-06	3.00E-02	1.00E+00	7.89E-14	1.2E-09	1.56E-14	2.3E-10	1.21E-17	1.8E-13	1.4E-09	0
2,3,4,7,8-PENTACHLORODIBENZOFURAN	B2	7.50E+04	7.50E+04	7.50E+04	2.77E-06	3.00E-02	1.00E+00	6.98E-14	5.2E-09	1.38E-14	1.0E-09	1.07E-17	8.1E-13	6.3E-09	1
2,3,7,8-TETRACHLORODIBENZOFURAN	B2	1.50E+04	1.50E+04	1.50E+04	3.35E-06	3.00E-02	1.00E+00	8.43E-14	1.3E-09	1.67E-14	2.5E-10	1.30E-17	1.9E-13	1.5E-09	0
2,3,7,8-TETRACHLORODIBENZO-p-DIOXIN	B2	1.50E+05	1.50E+05	1.50E+05	3.49E-07	3.00E-02	1.00E+00	8.78E-15	1.3E-09	1.74E-15	2.6E-10	1.35E-18	2.0E-13	1.6E-09	0
OCTACHLORODIBENZOFURAN	B2	1.50E+01	1.50E+01	1.50E+01	4.74E-04	3.00E-02	1.00E+00	1.19E-11	1.8E-10	2.36E-12	3.5E-11	1.83E-15	2.8E-14	2.1E-10	0
OCTACHLORODIBENZO-p-DIOXIN	B2	1.50E+01	1.50E+01	1.50E+01	3.39E-03	3.00E-02	1.00E+00	8.54E-11	1.3E-09	1.69E-11	2.5E-10	1.31E-14	2.0E-13	1.5E-09	0
Total TCDD-Mammal	--	1.50E+05	1.50E+05	1.50E+05	9.32E-06	3.00E-02	1.00E+00	2.34E-13	3.5E-08	4.64E-14	7.0E-09	3.61E-17	5.4E-12	4.2E-08	7
BARIUM	D				1.10E+02		7.00E-02	2.76E-06				4.25E-10			
IRON	--				2.78E+04	0	1.00E+00	6.99E-04				1.08E-07			
LEAD	--				7.58E+01	0	1.00E+00	1.91E-06				2.93E-10			
ALDRIN	B2	1.70E+01	1.70E+01	1.72E+01	2.68E-03	1.00E-01	1.00E+00	6.73E-11	1.1E-09	4.44E-11	7.6E-10	1.04E-14	1.8E-13	1.9E-09	0
BETA BHC	C	1.80E+00	1.80E+00	1.80E+00	7.78E-03	4.00E-02	1.00E+00	1.96E-10	3.5E-10	5.17E-11	9.3E-11	3.01E-14	5.4E-14	4.5E-10	0
DIELDRIN	B2	1.60E+01	1.60E+01	1.61E+01	1.41E-02	1.00E-01	1.00E+00	3.54E-10	5.7E-09	2.33E-10	3.7E-09	5.44E-14	8.8E-13	9.4E-09	2
ENDRIN	D				1.18E-02	1.00E-01	1.00E+00	2.97E-10		1.96E-10		4.57E-14			
ENDRIN ALDEHYDE	D				6.17E-02	1.00E-01	1.00E+00	1.55E-09		1.02E-09		2.39E-13			
p,p'-DDD	B2	2.40E-01	2.40E-01		1.87E-01	3.00E-02	1.00E+00	4.70E-09	1.1E-09	9.30E-10	2.2E-10	7.23E-13		1.4E-09	0
p,p'-DDE	B2	3.40E-01	3.40E-01		1.47E-02	3.00E-02	1.00E+00	3.70E-10	1.3E-10	7.33E-11	2.5E-11	5.69E-14		1.5E-10	0
p,p'-DDT	B2	3.40E-01	3.40E-01	3.40E-01	1.00E-01	3.00E-02	1.00E+00	2.53E-09	8.6E-10	5.00E-10	1.7E-10	3.89E-13	1.3E-13	1.0E-09	0
PCB-1260 (Aroclor 1260)	B2	2.00E+00	2.00E+00	2.00E+00	4.50E+00	1.40E-01	1.00E+00	1.13E-07	2.3E-07	1.05E-07	2.1E-07	1.74E-11	3.5E-11	4.4E-07	71
2-METHYLNAPHTHALENE	--				9.46E-02	1.30E-01	1.00E+00	2.38E-09		2.04E-09		3.66E-13			
ACENAPHTHENE	D				9.46E-02	1.30E-01	1.00E+00	2.38E-09		2.04E-09		3.66E-13			
ACENAPHTHYLENE	--				9.40E-02	1.30E-01	1.00E+00	2.36E-09		2.03E-09		3.64E-13			
ANTHRACENE	D				2.78E-01	1.30E-01	1.00E+00	6.99E-09		6.00E-09		1.08E-12			
BENZO(a)ANTHRACENE	B2	7.30E-01	7.30E-01		2.67E-01	1.30E-01	1.00E+00	6.72E-09	4.9E-09	5.77E-09	4.2E-09	1.03E-12		9.1E-09	1
BENZO(a)PYRENE	B2	7.30E+00	7.30E+00		1.73E-01	1.30E-01	1.00E+00	4.36E-09	3.2E-08	3.74E-09	2.7E-08	6.71E-13		5.9E-08	10
BENZO(b)FLUORANTHENE	B2	7.30E-01	7.30E-01		3.59E-01	1.30E-01	1.00E+00	9.04E-09	6.6E-09	7.75E-09	5.7E-09	1.39E-12		1.2E-08	2
BENZO(g,h,i)PERYLENE	--			1.60E+01	1.10E-01	1.30E-01	1.00E+00	2.76E-09		2.36E-09		4.24E-13	6.8E-12	6.8E-12	0
BENZO(k)FLUORANTHENE	B2	7.30E-02	7.30E-02		3.17E-01	1.30E-01	1.00E+00	7.99E-09	5.8E-10	6.85E-09	5.0E-10	1.23E-12		1.1E-09	0
BENZYL BUTYL PHTHALATE	C				8.67E-02	1.00E-01	1.00E+00	2.18E-09		1.44E-09		3.36E-13			
bis(2-ETHYLHEXYL) PHTHALATE	--	1.40E-02	1.40E-02		4.53E+00	1.00E-01	1.00E+00	1.14E-07	1.6E-09	7.52E-08	1.1E-09	1.75E-11		2.6E-09	0
CHRYSENE	B2	7.30E-03	7.30E-03		5.63E-01	1.30E-01	1.00E+00	1.42E-08	1.0E-10	1.21E-08	8.9E-11	2.18E-12		1.9E-10	0
DIBENZ(a,h)ANTHRACENE	B2	7.30E+00	7.30E+00		8.62E-02	1.30E-01	1.00E+00	2.17E-09	1.6E-08	1.86E-09	1.4E-08	3.34E-13		2.9E-08	5
DIBENZOFURAN	D				9.59E-02		1.00E+00	2.41E-09				3.71E-13			
DI-n-BUTYL PHTHALATE	D				1.99E-01	1.00E-01	1.00E+00	5.00E-09		3.30E-09		7.70E-13			
FLUORANTHENE	D				1.67E+00	1.30E-01	1.00E+00	4.20E-08		3.61E-08		6.47E-12			
FLUORENE	D				8.88E-02	1.30E-01	1.00E+00	2.23E-09		1.92E-09		3.44E-13			
INDENO(1,2,3-c,d)PYRENE	B2	7.30E-01	7.30E-01		1.36E-01	1.30E-01	1.00E+00	3.43E-09	2.5E-09	2.94E-09	2.1E-09	5.27E-13		4.6E-09	1
PHENANTHRENE	D				8.66E-01	1.30E-01	1.00E+00	2.18E-08		1.87E-08		3.35E-12			
PYRENE	D				1.76E+00	1.30E-01	1.00E+00	4.43E-08		3.80E-08		6.82E-12			

Table C-1

Current Site Specific Worker Scenario - Potential Excess Lifetime Cancer Risk

Surface Soil - All Building 35-752 Areas

Fort Richardson - Operable Unit E

1,1,1-TRICHLOROETHANE	D				1.96E-03		1.00E+00	4.94E-11				4.47E-09			
1,2,4-TRIMETHYLBENZENE	--				4.62E-03		1.00E+00	1.16E-10				1.18E-09			
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	--				4.76E-03		1.00E+00	1.20E-10				2.98E-09			
2-CHLOROTOLUENE	D				5.00E-03		1.00E+00	1.26E-10				4.47E-09			
ACETONE	D				9.39E-02		1.00E+00	2.36E-09				3.77E-08			
METHYL ETHYL KETONE (2-BUTANONE)	D				2.17E-02		1.00E+00	5.46E-10				5.62E-09			
METHYLENE CHLORIDE	B2	7.50E-03	7.50E-03	1.65E-03	9.95E-03		1.00E+00	2.50E-10	1.9E-12			2.01E-08	3.3E-11	3.5E-11	0
NAPHTHALENE	C				6.61E-03	1.30E-01	1.00E+00	1.66E-10		1.43E-10		7.69E-10			
n-PROPYLBENZENE	--				6.15E-02		1.00E+00	1.55E-09				2.73E-08			
P-CYMENE (p-ISOPROPYLTOLUENE)	D				3.72E-02		1.00E+00	9.35E-10				5.21E-08			
TOLUENE	D				2.49E-03		1.00E+00	6.26E-11				3.15E-09			
TRICHLOROETHYLENE (TCE)	B2	1.10E-02	1.10E-02	6.00E-03	9.78E-03		1.00E+00	2.46E-10	2.7E-12			1.51E-08	9.1E-11	9.3E-11	0
XYLENES, m & p	D				1.75E-03	1.00E-01	1.00E+00	4.40E-11		2.91E-11		1.44E-09			
XYLENES, TOTAL	D				3.03E-03	1.00E-01	1.00E+00	7.62E-11		5.03E-11		2.50E-09			
Total Risk									3.4E-07		2.8E-07		1.7E-10		100
												Total Risk =	6.1E-07		

Note:

Cancer WOE Classifications:

Group A: Human carcinogen
Group B (B1, B2): Probable human carcinogen
Group C: Possible human carcinogen
Group D: Not classifiable
Group E: No evidence of carcinogenicity

ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
ELCR = Excess Lifetime Cancer Risk
EPC = Exposure Point Concentration
mg/kg-day = milligrams per kilogram per day
SF_d = Dermal Slope Factor
SF_o = Oral Slope Factor
SF_i = Inhalation Slope Factor
WOE = Weight of Evidence

Table C-2
Current Site Specific Worker Scenario - Potential Noncarcinogenic Risk
Surface Soil - All Building 35-752 Areas
Fort Richardson- Operable Unit E

							Ingestion		Dermal		Inhalation				%
Chemical	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC (mg/kg)	ABS_d	ABS_{gi}	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ	Total HI	Contribution
1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN				8.59E-05	3.00E-02	1.00E+00	5.04E-11		9.98E-12		7.76E-15			
1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN				3.11E-04	3.00E-02	1.00E+00	1.83E-10		3.61E-11		2.81E-14			
1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN				1.28E-05	3.00E-02	1.00E+00	7.53E-12		1.49E-12		1.16E-15			
1,2,3,4,7,8-HEXACHLORODIBENZOFURAN				2.76E-05	3.00E-02	1.00E+00	1.62E-11		3.20E-12		2.49E-15			
1,2,3,4,7,8-HEXACHLORODIBENZO-p-DIOXIN				2.10E-06	3.00E-02	1.00E+00	1.24E-12		2.45E-13		1.90E-16			
1,2,3,6,7,8-HEXACHLORODIBENZOFURAN				3.86E-06	3.00E-02	1.00E+00	2.27E-12		4.49E-13		3.49E-16			
1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN				7.05E-06	3.00E-02	1.00E+00	4.14E-12		8.19E-13		6.36E-16			
1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN				3.63E-06	3.00E-02	1.00E+00	2.13E-12		4.22E-13		3.28E-16			
1,2,3,7,8-PENTACHLORODIBENZOFURAN				8.32E-05	3.00E-02	1.00E+00	4.88E-11		9.67E-12		7.51E-15			
1,2,3,7,8-PENTACHLORODIBENZO-p-DIOXIN				6.40E-07	3.00E-02	1.00E+00	3.76E-13		7.44E-14		5.78E-17			
2,3,4,6,7,8-HEXACHLORODIBENZOFURAN				3.14E-06	3.00E-02	1.00E+00	1.84E-12		3.65E-13		2.83E-16			
2,3,4,7,8-PENTACHLORODIBENZOFURAN				2.77E-06	3.00E-02	1.00E+00	1.63E-12		3.23E-13		2.51E-16			
2,3,7,8-TETRACHLORODIBENZOFURAN				3.35E-06	3.00E-02	1.00E+00	1.97E-12		3.90E-13		3.03E-16			
2,3,7,8-TETRACHLORODIBENZO-p-DIOXIN				3.49E-07	3.00E-02	1.00E+00	2.05E-13		4.06E-14		3.15E-17			
OCTACHLORODIBENZOFURAN				4.74E-04	3.00E-02	1.00E+00	2.78E-10		5.51E-11		4.28E-14			
OCTACHLORODIBENZO-p-DIOXIN				3.39E-03	3.00E-02	1.00E+00	1.99E-09		3.94E-10		3.06E-13			
Total TCDD-Mammal				9.32E-06	3.00E-02	1.00E+00	5.47E-12		1.08E-12		8.42E-16			
BARIUM	7.00E-02	4.90E-03	1.43E-04	1.10E+02		7.00E-02	6.44E-05	0.00			9.91E-09	0.00	0.00	2
IRON	3.00E-01	3.00E-01		2.78E+04	0	1.00E+00	1.63E-02	0.05			2.51E-06		0.05	96
LEAD				7.58E+01	0	1.00E+00	4.45E-05				6.85E-09			
ALDRIN	3.00E-05	3.00E-05		2.68E-03	1.00E-01	1.00E+00	1.57E-09	0.00	1.04E-09	0.0000	2.42E-13		0.00	0
BETA BHC	2.00E-04	2.00E-04		7.78E-03	4.00E-02	1.00E+00	4.57E-09	0.00	1.21E-09	0.0000	7.03E-13		0.00	0
DIELDRIN	5.00E-05	5.00E-05		1.41E-02	1.00E-01	1.00E+00	8.25E-09	0.00	5.44E-09	0.0001	1.27E-12		0.00	0
ENDRIN	3.00E-04	3.00E-04		1.18E-02	1.00E-01	1.00E+00	6.93E-09	0.00	4.58E-09	0.0000	1.07E-12		0.00	0
ENDRIN ALDEHYDE	3.00E-04	3.00E-04		6.17E-02	1.00E-01	1.00E+00	3.62E-08	0.00	2.39E-08	0.0001	5.57E-12		0.00	0
p,p'-DDD				1.87E-01	3.00E-02	1.00E+00	1.10E-07		2.17E-08		1.69E-11			
p,p'-DDE				1.47E-02	3.00E-02	1.00E+00	8.64E-09		1.71E-09		1.33E-12			
p,p'-DDT	5.00E-04	5.00E-04		1.00E-01	3.00E-02	1.00E+00	5.89E-08	0.00	1.17E-08	0.0000	9.07E-12		0.00	0
PCB-1260 (Aroclor 1260)				4.50E+00	1.40E-01	1.00E+00	2.64E-06		2.44E-06		4.07E-10			
2-METHYLNAPHTHALENE	9.00E-03	9.00E-03		9.46E-02	1.30E-01	1.00E+00	5.55E-08	0.00	4.76E-08	0.0000	8.54E-12		0.00	0
ACENAPHTHENE	6.00E-02	6.00E-02		9.46E-02	1.30E-01	1.00E+00	5.55E-08	0.00	4.76E-08	0.0000	8.54E-12		0.00	0
ACENAPHTHYLENE	6.00E-02	6.00E-02		9.40E-02	1.30E-01	1.00E+00	5.52E-08	0.00	4.73E-08	0.0000	8.49E-12		0.00	0
ANTHRACENE	3.00E-01	3.00E-01		2.78E-01	1.30E-01	1.00E+00	1.63E-07	0.00	1.40E-07	0.0000	2.51E-11		0.00	0
BENZO(a)ANTHRACENE				2.67E-01	1.30E-01	1.00E+00	1.57E-07		1.35E-07		2.41E-11			
BENZO(a)PYRENE				1.73E-01	1.30E-01	1.00E+00	1.02E-07		8.73E-08		1.56E-11			
BENZO(b)FLUORANTHENE				3.59E-01	1.30E-01	1.00E+00	2.11E-07		1.81E-07		3.24E-11			
BENZO(g,h,i)PERYLENE				1.10E-01	1.30E-01	1.00E+00	6.43E-08		5.52E-08		9.89E-12			
BENZO(k)FLUORANTHENE				3.17E-01	1.30E-01	1.00E+00	1.86E-07		1.60E-07		2.87E-11			
BENZYL BUTYL PHTHALATE	2.00E-01	2.00E-01		8.67E-02	1.00E-01	1.00E+00	5.09E-08	0.00	3.36E-08	0.0000	7.83E-12		0.00	0
bis(2-ETHYLHEXYL) PHTHALATE	2.00E-02	2.00E-02		4.53E+00	1.00E-01	1.00E+00	2.66E-06	0.00	1.75E-06	0.0001	4.09E-10		0.00	0
CHRYSENE				5.63E-01	1.30E-01	1.00E+00	3.30E-07		2.83E-07		5.08E-11			
DIBENZ(a,h)ANTHRACENE				8.62E-02	1.30E-01	1.00E+00	5.06E-08		4.34E-08		7.79E-12			
DIBENZOFURAN	4.00E-03	4.00E-03		9.59E-02		1.00E+00	5.63E-08	0.00			8.66E-12		0.00	0
DI-n-BUTYL PHTHALATE	1.00E-01	1.00E-01		1.99E-01	1.00E-01	1.00E+00	1.17E-07	0.00	7.71E-08	0.0000	1.80E-11		0.00	0
FLUORANTHENE	4.00E-02	4.00E-02		1.67E+00	1.30E-01	1.00E+00	9.81E-07	0.00	8.42E-07	0.0000	1.51E-10		0.00	0
FLUORENE	4.00E-02	4.00E-02		8.88E-02	1.30E-01	1.00E+00	5.21E-08	0.00	4.47E-08	0.0000	8.02E-12		0.00	0
INDENO(1,2,3-c,d)PYRENE				1.36E-01	1.30E-01	1.00E+00	8.00E-08		6.86E-08		1.23E-11			
PHENANTHRENE	3.00E-01	3.00E-01		8.66E-01	1.30E-01	1.00E+00	5.08E-07	0.00	4.36E-07	0.0000	7.82E-11		0.00	0
PYRENE	3.00E-02	3.00E-02		1.76E+00	1.30E-01	1.00E+00	1.03E-06	0.00	8.88E-07	0.0000	1.59E-10		0.00	0
1,1,1-TRICHLOROETHANE	2.80E-01	2.80E-01	6.30E-01	1.96E-03		1.00E+00	1.15E-09	0.00			1.04E-07	0.00	0.00	0
1,2,4-TRIMETHYLBENZENE	5.00E-02	5.00E-02	1.70E-03	4.62E-03		1.00E+00	2.71E-09	0.00			2.76E-08	0.00	0.00	0

Table C-2

Current Site Specific Worker Scenario - Potential Noncarcinogenic Risk

Surface Soil - All Building 35-752 Areas

Fort Richardson- Operable Unit E

1,3,5-TRIMETHYLBENZENE (MESITYLENE)	5.00E-02	5.00E-02	1.70E-03	4.76E-03		1.00E+00	2.79E-09	0.00			6.96E-08	0.00	0.00	0
2-CHLOROTOLUENE	2.00E-02	2.00E-02	2.00E-02	5.00E-03		1.00E+00	2.94E-09	0.00			1.04E-07	0.00	0.00	0
ACETONE	1.00E-01	1.00E-01	1.00E-01	9.39E-02		1.00E+00	5.51E-08	0.00			8.79E-07	0.00	0.00	0
METHYL ETHYL KETONE (2-BUTANONE)	6.00E-01	6.00E-01	2.86E-01	2.17E-02		1.00E+00	1.27E-08	0.00			1.31E-07	0.00	0.00	0
METHYLENE CHLORIDE	6.00E-02	6.00E-02	8.57E-01	9.95E-03		1.00E+00	5.84E-09	0.00			4.69E-07	0.00	0.00	0
NAPHTHALENE	2.00E-02	2.00E-02	8.57E-04	6.61E-03	1.30E-01	1.00E+00	3.88E-09	0.00	3.33E-09	0.0000	1.79E-08	0.00	0.00	0
n-PROPYLBENZENE	4.00E-02	4.00E-02	4.00E-02	6.15E-02		1.00E+00	3.61E-08	0.00			6.37E-07	0.00	0.00	0
P-CYMENE (p-ISOPROPYLTOLUENE)	1.00E-01	1.00E-01	1.10E-01	3.72E-02		1.00E+00	2.18E-08	0.00			1.22E-06	0.00	0.00	0
TOLUENE	2.00E-01	2.00E-01	1.10E-01	2.49E-03		1.00E+00	1.46E-09	0.00			7.34E-08	0.00	0.00	0
TRICHLOROETHYLENE (TCE)	6.00E-03	6.00E-03	6.00E-03	9.78E-03		1.00E+00	5.74E-09	0.00			3.52E-07	0.00	0.00	0
XYLENES, m & p	2.00E-01	2.00E-01	2.90E-02	1.75E-03	1.00E-01	1.00E+00	1.03E-09	0.00	6.78E-10	0.0000	3.37E-08	0.00	0.00	0
XYLENES, TOTAL	2.00E-01	2.00E-01	2.90E-02	3.03E-03	1.00E-01	1.00E+00	1.78E-09	0.00	1.17E-09	0.0000	5.83E-08	0.00	0.00	0
								0.06		0.0004		0.0003		100
											Total HI =	0.06		

Note:

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

Table C-3
Current Site Specific Worker Scenario - Potential Excess Lifetime Cancer Risk
Surface Soil - Building 35-752
Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation			%
Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC (mg/kg)	ABS_d	ABS_{gi}	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	Total ELCR	Contribution
DIELDRIN	B2	1.60E+01	1.60E+01	1.61E+01	8.48E-02	1.00E-01	1.00E+00	2.13E-09	3.4E-08	1.41E-09	2.3E-08	3.28E-13	5.3E-12	5.7E-08	6
p,p'-DDE	B2	3.40E-01	3.40E-01		6.05E-02	3.00E-02	1.00E+00	1.52E-09	5.2E-10	3.01E-10	1.0E-10	2.34E-13		6.2E-10	0
PCB-1260 (AROCHLOR 1260)	B2	2.00E+00	2.00E+00	2.00E+00	9.20E+00	1.40E-01	1.00E+00	2.31E-07	4.6E-07	2.14E-07	4.3E-07	3.56E-11	7.1E-11	8.9E-07	94
CHRYSENE	B2	7.30E-03	7.30E-03		1.00E-01	1.30E-01	1.00E+00	3E-09	1.8E-11	2E-09	1.6E-11	3.87E-13		3.4E-11	0
FLUORANTHENE	D				1.00E-01	1.30E-01	1.00E+00	3E-09		2E-09		3.87E-13			
PYRENE	D				1.00E-01	1.30E-01	1.00E+00	3E-09		2E-09		3.87E-13			
1,1,1-TRICHLOROETHANE	D				2.62E-03		1.00E+00	7E-11				5.97E-09			
Total Risk									5.0E-07		4.5E-07		7.7E-11		100
												Total Risk =	9.5E-07		

Note:
Cancer WOE Classifications:
Group A: Human carcinogen
Group B (B1, B2): Probable human carcinogen
Group C: Possible human carcinogen
Group D: Not classifiable
Group E: No evidence of carcinogenicity
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
ELCR = Excess Lifetime Cancer Risk
EPC = Exposure Point Concentration
mg/kg-day = milligrams per kilogram per day
SF_d = Dermal Slope Factor
SF_o = Oral Slope Factor
SF_i = Inhalation Slope Factor
WOE = Weight of Evidence

Table C-4

Current Site Specific Worker Scenario - Potential Noncarcinogenic Risk

Surface Soil - Building 35-752

Fort Richardson- Operable Unit E

							Ingestion		Dermal		Inhalation			
Chemical	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC (mg/kg)	ABS_d	ABS_{gi}	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ	Total HI	% Contribution
DIELDRIN	5.00E-05	5.00E-05		8.48E-02	1.00E-01	1.00E+00	4.98E-08	0.00	3.29E-08	0.0007	7.66E-12		0.00	100
p,p'-DDE				6.05E-02	3.00E-02	1.00E+00	3.55E-08		7.03E-09		5.46E-12			
PCB-1260 (AROCHLOR 1260)				9.20E+00	1.40E-01	1.00E+00	5.40E-06		4.99E-06		8.31E-10			
CHRYSENE				1.00E-01	1.30E-01	1.00E+00	6E-08		5E-08		9.03E-12			
FLUORANTHENE	4.00E-02	4.00E-02		1.00E-01	1.30E-01	1.00E+00	6E-08	0.0000	5E-08	0.0000	9.03E-12		0.000	0.16
PYRENE	3.00E-02	3.00E-02		1.00E-01	1.30E-01	1.00E+00	6E-08	0.0000	5E-08	0.0000	9.03E-12		0.0000	0.2
1,1,1-TRICHLOROETHANE	2.80E-01	2.80E-01	6.30E-01	2.62E-03		1.00E+00	2E-09	0.0000			1.39E-07	0.00	0.0000	0.0
								0.0010		0.0007		0.00000022		100
											Total HI =	0.0017		

Note:

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

EPC = Exposure Point Concentration

HI = Hazard Index

HQ = Hazard Quotient;

mg/kg-day = milligrams per kilogram per day

RfC = Reference Concentration

RfD_d = Dermal Reference Dose;

RfD_o = Oral Reference Dose

RfD_i = Inhalation Reference Dose

Table C-5
Current Site Specific Worker Scenario - Potential Excess Lifetime Cancer Risk
Surface Soil - Burn Pit Area
Fort Richardson - Operable Unit E

		SF_o	SF_d	SF_i				Ingestion		Dermal		Inhalation			%
Chemical	WOE	(mg/kg-day)$^{-1}$	(mg/kg-day)$^{-1}$	(mg/kg-day)$^{-1}$	EPC (mg/kg)	ABS_d	ABS_{gi}	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	Total ELCR	Contribution
TOTAL TCDD-MAMMAL	--	150000	150000	150000	1.89E-07	0.03	1	4.8E-15	7.1E-10	9.4E-16	1.4E-10	7.3E-19	1.1E-13	8.5E-10	6
PCB-1260 (AROCHLOR 1260)	B2	2	2	2	8.10E-02	0.14	1	2E-09	4.1E-09	1.9E-09	3.8E-09	3.1E-13	6.3E-13	7.8E-09	52
BENZO(a)PYRENE	B2	7.3	7.3		1.50E-02	0.13	1	3.8E-10	2.8E-09	3.2E-10	2.4E-09	5.8E-14		5.1E-09	34
BENZO(b)FLUORANTHENE	B2	0.73	0.73		1.30E-02	0.13	1	3.3E-10	2.4E-10	2.8E-10	2.0E-10	5.0E-14		4.4E-10	3
BENZO(k)FLUORANTHENE	B2	0.073	0.073		1.75E-02	0.13	1	4.4E-10	3.2E-11	3.8E-10	2.8E-11	6.8E-14		6.0E-11	0
BENZYL BUTYL PHTHALATE	C				2.00E-02	0.1	1	5E-10		3.3E-10		7.7E-14			
bis(2-ETHYLHEXYL) PHTHALATE	--	0.014	0.014		7.60E-02	0.1	1	1.9E-09	2.7E-11	1.3E-09	1.8E-11	2.9E-13		4.4E-11	0
CHRYSENE	B2	0.0073	0.0073		1.85E-02	0.13	1	4.7E-10	3.4E-12	4E-10	2.9E-12	7.2E-14		6.3E-12	0
DI-n-BUTYL PHTHALATE	D				8.00E-01	0.1	1	2E-08		1.3E-08		3.1E-12			
FLUORANTHENE	D				2.05E-02	0.13	1	5.2E-10		4.4E-10		7.9E-14			
INDENO(1,2,3-c,d)PYRENE	B2	0.73	0.73		1.65E-02	0.13	1	4.2E-10	3.0E-10	3.6E-10	2.6E-10	6.4E-14		5.6E-10	4
PHENANTHRENE	D				1.85E-02	0.13	1	4.7E-10		4E-10		7.2E-14			
PYRENE	D				1.75E-02	0.13	1	4.4E-10		3.8E-10		6.8E-14			
1,1,1-TRICHLOROETHANE	D				1.15E-03		1	2.9E-11				4.5E-15			
ACETONE	D				6.50E-03		1	1.6E-10				1.5E-08			
METHYL ETHYL KETONE (2-BUTANONE	D				4.60E-02		1	1.2E-09				1.8E-08			
METHYLENE CHLORIDE	B2	0.0075	0.0075	0.001645	3.30E-02		1	8.3E-10	6.2E-12			8.6E-09	1.4E-11	2.0E-11	0
P-CYMENE (p-ISOPROPYLTOLUENE)	D				4.70E-03		1	1.2E-10				9.5E-09			
TOLUENE	D				1.35E-03		1	3.4E-11				1.9E-09			
TRICHLOROETHYLENE (TCE)	B2	0.011	0.011	0.006	3.00E-02		1	7.5E-10	8.3E-12			3.8E-08	2.3E-10	2.4E-10	2
XYLENES, M & P	D				4.80E-03	0.1	1	1.2E-10		8E-11		7.4E-09			
Total Risk									8.2E-09		6.8E-09		2.4E-10		100
												Total Risk =	1.5E-08		

Note:
Cancer WOE Classifications:
Group A: Human carcinogen
Group B (B1, B2): Probable human carcinogen
Group C: Possible human carcinogen
Group D: Not classifiable
Group E: No evidence of carcinogenicity
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
ELCR = Excess Lifetime Cancer Risk
EPC = Exposure Point Concentration
mg/kg-day = milligrams per kilogram per day
SF_d = Dermal Slope Factor
SF_o = Oral Slope Factor
SF_i = Inhalation Slope Factor
WOE = Weight of Evidence

Table C-6
Current Site Specific Worker Scenario - Potential Noncarcinogenic Risk
Surface Soil - Burn Pit Area
Fort Richardson- Operable Unit E

Chemical	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC (mg/kg)	ABS_d	ABS_{gi}	Ingestion CDI (mg/kg-day)	Ingestion HQ	Dermal CDI (mg/kg-day)	Dermal HQ	Inhalation CDI (mg/kg-day)	Inhalation HQ	Total HI	% Contribution
TOTAL TCDD-MAMMAL				1.89E-07	0.03	1	1.1E-13		2.2E-14		7.3E-19			
PCB-1260 (AROCHLOR 1260)				8.10E-02	0.14	1	4.8E-08		4.4E-08		3.1E-13			
BENZO(a)PYRENE				1.50E-02	0.13	1	8.8E-09		7.6E-09		5.8E-14			
BENZO(b)FLUORANTHENE				1.30E-02	0.13	1	7.6E-09		6.5E-09		5.0E-14			
BENZO(k)FLUORANTHENE				1.75E-02	0.13	1	1.0E-08		8.8E-09		6.8E-14			
BENZYL BUTYL PHTHALATE	2.00E-01	2.00E-01		2.00E-02	0.1	1	1.2E-08	0.00	7.7E-09	0.0000	7.7E-14		0.00	0
bis(2-ETHYLHEXYL) PHTHALATE	2.00E-02	2.00E-02		7.60E-02	0.1	1	4.5E-08	0.00	2.9E-08	0.0000	2.9E-13		0.00	16
CHRYSENE				1.85E-02	0.13	1	1.1E-08		9.3E-09		7.2E-14			
DI-n-BUTYL PHTHALATE	1.00E-01	1.00E-01		8.00E-01	0.1	1	4.7E-07	0.00	3.1E-07	0.0000	3.1E-12		0.00	34
FLUORANTHENE	4.00E-02	4.00E-02		2.05E-02	0.13	1	1.2E-08	0.00	1.0E-08	0.0000	7.9E-14		0.00	2
INDENO(1,2,3-c,d)PYRENE				1.65E-02	0.13	1	9.7E-09		8.3E-09		6.4E-14			
PHENANTHRENE	3.00E-01	3.00E-01		1.85E-02	0.13	1	1.1E-08	0.00	9.3E-09	0.0000	7.2E-14		0.00	0
PYRENE	3.00E-02	3.00E-02		1.75E-02	0.13	1	1.0E-08	0.00	8.8E-09	0.0000	6.8E-14		0.00	3
1,1,1-TRICHLOROETHANE	2.80E-01	2.80E-01	6.30E-01	1.15E-03		1	6.8E-10	0.00			4.5E-15	0.00	0.00	0
ACETONE	1.00E-01	1.00E-01	1.00E-01	6.50E-03		1	3.8E-09	0.00			1.5E-08	0.00	0.00	1
METHYL ETHYL KETONE (2-BUTANONE)	6.00E-01	6.00E-01	2.86E-01	4.60E-02		1	2.7E-08	0.00			1.8E-08	0.00	0.00	0
METHYLENE CHLORIDE	6.00E-02	6.00E-02	8.57E-01	3.30E-02		1	1.9E-08	0.00			8.6E-09	0.00	0.00	1
P-CYMENE (p-ISOPROPYLTOLUENE)	1.00E-01	1.00E-01	1.10E-01	4.70E-03		1	2.8E-09	0.00			9.5E-09	0.00	0.00	0
TOLUENE	2.00E-01	2.00E-01	1.10E-01	1.35E-03		1	7.9E-10	0.00			1.9E-09	0.00	0.00	0
TRICHLOROETHYLENE (TCE)	6.00E-03	6.00E-03	6.00E-03	3.00E-02		1	1.8E-08	0.00			3.8E-08	0.00	0.00	40
XYLENES, M & P	2.00E-01	2.00E-01	2.90E-02	4.80E-03	0.1	1	2.8E-09	0.00	1.9E-09	0.0000	7.4E-09	0.00	0.00	1
								0.000011		0.0000052		0.0000069		100
											Total HI =	0.000023		

Note:
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
EPC = Exposure Point Concentration
HI = Hazard Index
HQ = Hazard Quotient;
mg/kg-day = milligrams per kilogram per day
RfC = Reference Concentration
RfD_d = Dermal Reference Dose;
RfD_o = Oral Reference Dose
RfD_i = Inhalation Reference Dose

Table C-7
Current Site Specific Worker Scenario - Potential Excess Lifetime Cancer Risk
Surface Soil - Cooling Pond Area
Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation			
Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC (mg/kg)	ABS_d	ABS_{gi}	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	Total ELCR	% Contribution
BARIUM	D				9.38E+01		7.00E-02	3.94E-06				5.96E-10			
LEAD	--				1.17E+02	0	1.00E+00	4.92E-06				7.46E-10			
ALDRIN	B2	1.70E+01	1.70E+01	1.72E+01	1.83E-03	1.00E-01	1.00E+00	7.66E-11	1E-09	5.06E-11	9E-10	1.16E-14	2E-13	2E-09	0
BETA BHC	C	1.80E+00	1.80E+00	1.80E+00	3.19E-03	4.00E-02	1.00E+00	1.34E-10	2E-10	3.54E-11	6E-11	2.03E-14	4E-14	3E-10	0
DIELDRIN	B2	1.60E+01	1.60E+01	1.61E+01	5.63E-03	1.00E-01	1.00E+00	2.36E-10	4E-09	1.56E-10	2E-09	3.58E-14	6E-13	6E-09	1
ENDRIN	D				3.40E-02	1.00E-01	1.00E+00	1.43E-09		9.41E-10		2.16E-13			
ENDRIN ALDEHYDE	D				1.92E-03	1.00E-01	1.00E+00	8.07E-11		5.32E-11		1.22E-14			
p,p'-DDD	B2	2.40E-01	2.40E-01		3.59E-01	3.00E-02	1.00E+00	1.50E-08	4E-09	2.98E-09	7E-10	2.28E-12		4E-09	1
p,p'-DDE	B2	3.40E-01	3.40E-01		1.69E-02	3.00E-02	1.00E+00	7.10E-10	2E-10	1.41E-10	5E-11	1.08E-13		3E-10	0
p,p'-DDT	B2	3.40E-01	3.40E-01	3.40E-01	1.80E-01	3.00E-02	1.00E+00	7.55E-09	3E-09	1.49E-09	5E-10	1.14E-12	4E-13	3E-09	0
PCB-1260 (AROCHLOR 1260)	B2	2.00E+00	2.00E+00	2.00E+00	2.09E+00	1.40E-01	1.00E+00	8.75E-08	2E-07	8.08E-08	2E-07	1.33E-11	3E-11	3E-07	47
2-METHYLNAPHTHALENE	--				1.17E-01	1.30E-01	1.00E+00	4.90E-09		4.20E-09		7.42E-13			
ACENAPHTHENE	D				1.17E-01	1.30E-01	1.00E+00	4.90E-09		4.20E-09		7.42E-13			
ACENAPHTHYLENE	--				1.19E-01	1.30E-01	1.00E+00	5.00E-09		4.29E-09		7.58E-13			
ANTHRACENE	D				8.69E-01	1.30E-01	1.00E+00	3.64E-08		3.13E-08		5.52E-12			
BENZO(a)ANTHRACENE	B2	7.30E-01	7.30E-01		6.25E-01	1.30E-01	1.00E+00	2.62E-08	2E-08	2.25E-08	2E-08	3.97E-12		4E-08	5
BENZO(a)PYRENE	B2	7.30E+00	7.30E+00		3.49E-01	1.30E-01	1.00E+00	1.46E-08	1E-07	1.25E-08	9E-08	2.22E-12		2E-07	28
BENZO(b)FLUORANTHENE	B2	7.30E-01	7.30E-01		7.35E-01	1.30E-01	1.00E+00	3.08E-08	2E-08	2.64E-08	2E-08	4.67E-12		4E-08	6
BENZO(g,h,i)PERYLENE	--			1.60E+01	1.63E-01	1.30E-01	1.00E+00	6.84E-09		5.87E-09		1.04E-12	2E-11	2E-11	0
BENZO(k)FLUORANTHENE	B2	7.30E-02	7.30E-02		7.26E-01	1.30E-01	1.00E+00	3.05E-08	2E-09	2.61E-08	2E-09	4.62E-12		4E-09	1
bis(2-ETHYLHEXYL) PHTHALATE	--	1.40E-02	1.40E-02		7.00E+00	1.00E-01	1.00E+00	2.94E-07	4E-09	1.94E-07	3E-09	4.45E-11		7E-09	1
CHRYSENE	B2	7.30E-03	7.30E-03		1.43E+00	1.30E-01	1.00E+00	6.01E-08	4E-10	5.15E-08	4E-10	9.10E-12		8E-10	0
DIBENZ(a,h)ANTHRACENE	B2	7.30E+00	7.30E+00		1.08E-01	1.30E-01	1.00E+00	4.55E-09	3E-08	3.90E-09	3E-08	6.89E-13		6E-08	9
DIBENZOFURAN	D				1.21E-01		1.00E+00	5.08E-09				7.69E-13			
FLUORANTHENE	D				3.66E+00	1.30E-01	1.00E+00	1.54E-07		1.32E-07		2.33E-11			
FLUORENE	D				1.05E-01	1.30E-01	1.00E+00	4.41E-09		3.78E-09		6.68E-13			
INDENO(1,2,3-c,d)PYRENE	B2	7.30E-01	7.30E-01		2.63E-01	1.30E-01	1.00E+00	1.10E-08	8E-09	9.45E-09	7E-09	1.67E-12		1E-08	2
PHENANTHRENE	D				1.98E+00	1.30E-01	1.00E+00	8.29E-08		7.11E-08		1.26E-11			
PYRENE	D				4.49E+00	1.30E-01	1.00E+00	1.88E-07		1.62E-07		2.85E-11			
1,2,4-TRIMETHYLBENZENE	--				9.70E-04		1.00E+00	4.07E-11				4.14E-10			
1,3,5-TRIMETHYLBENZENE (MESITYLENI	--				2.13E-03		1.00E+00	8.95E-11				2.23E-09			
2-CHLOROTOLUENE	D				1.00E-02		1.00E+00	4.19E-10				1.49E-08			
ACETONE	D				1.67E-01		1.00E+00	6.99E-09				1.11E-07			
METHYL ETHYL KETONE (2-BUTANONE)	D				4.14E-02		1.00E+00	1.73E-09				1.79E-08			
NAPHTHALENE	C				3.05E-02	1.30E-01	1.00E+00	1.28E-09		1.10E-09		5.91E-09			
n-PROPYLBENZENE	--				1.80E-01		1.00E+00	7.55E-09				1.33E-07			
P-CYMENE (p-ISOPROPYLTOLUENE)	D				1.30E-01		1.00E+00	5.45E-09				3.04E-07			
Total Risk									3.8E-07		3.3E-07		4.4E-11		100
												Total Risk =	7.2E-07		

Note:
Cancer WOE Classifications:
Group A: Human carcinogen
Group B (B1, B2): Probable human carcinogen
Group C: Possible human carcinogen
Group D: Not classifiable
Group E: No evidence of carcinogenicity
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
ELCR = Excess Lifetime Cancer Risk
EPC = Exposure Point Concentration
mg/kg-day = milligrams per kilogram per day
SF_d = Dermal Slope Factor
SF_o = Oral Slope Factor
SF_i = Inhalation Slope Factor
WOE = Weight of Evidence

Table C-8
Current Site Specific Worker Scenario - Potential Noncarcinogenic Risk
Surface Soil - Cooling Pond Area
Fort Richardson- Operable Unit E

							Ingestion		Dermal		Inhalation			
Chemical	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC (mg/kg)	ABS_d	ABS_{gi}	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ	Total HI	% Contribution
BARIUM	7.00E-02	4.90E-03	1.43E-04	9.38E+01		7.00E-02	9.18E-05	0.00			1.39E-08	0.00	0.0014	37
LEAD				1.17E+02	0	1.00E+00	1.15E-04				1.74E-08			
ALDRIN	3.00E-05	3.00E-05		1.83E-03	1.00E-01	1.00E+00	1.79E-09	0.00	1.18E-09	0.0000	2.71E-13		0.0001	3
BETA BHC	2.00E-04	2.00E-04		3.19E-03	4.00E-02	1.00E+00	3.12E-09	0.00	8.25E-10	0.0000	4.73E-13		0.0000	1
DIELDRIN	5.00E-05	5.00E-05		5.63E-03	1.00E-01	1.00E+00	5.51E-09	0.00	3.63E-09	0.0001	8.34E-13		0.0002	5
ENDRIN	3.00E-04	3.00E-04		3.40E-02	1.00E-01	1.00E+00	3.33E-08	0.00	2.20E-08	0.0001	5.04E-12		0.0002	5
ENDRIN ALDEHYDE	3.00E-04	3.00E-04		1.92E-03	1.00E-01	1.00E+00	1.88E-09	0.00	1.24E-09	0.0000	2.85E-13		0.0000	0
p,p'-DDD				3.59E-01	3.00E-02	1.00E+00	3.51E-07		6.95E-08		5.32E-11			
p,p'-DDE				1.69E-02	3.00E-02	1.00E+00	1.66E-08		3.28E-09		2.51E-12			
p,p'-DDT	5.00E-04	5.00E-04		1.80E-01	3.00E-02	1.00E+00	1.76E-07	0.00	3.49E-08	0.0001	2.67E-11		0.0004	11
PCB-1260 (AROCHLOR 1260)				2.09E+00	1.40E-01	1.00E+00	2.04E-06		1.89E-06		3.09E-10			
2-METHYLNAPHTHALENE	9.00E-03	9.00E-03		1.17E-01	1.30E-01	1.00E+00	1.14E-07	0.00	9.81E-08	0.0000	1.73E-11		0.0000	1
ACENAPHTHENE	6.00E-02	6.00E-02		1.17E-01	1.30E-01	1.00E+00	1.14E-07	0.00	9.80E-08	0.0000	1.73E-11		0.0000	0
ACENAPHTHYLENE	6.00E-02	6.00E-02		1.19E-01	1.30E-01	1.00E+00	1.17E-07	0.00	1.00E-07	0.0000	1.77E-11		0.0000	0
ANTHRACENE	3.00E-01	3.00E-01		8.69E-01	1.30E-01	1.00E+00	8.50E-07	0.00	7.30E-07	0.0000	1.29E-10		0.0000	0
BENZO(a)ANTHRACENE				6.25E-01	1.30E-01	1.00E+00	6.12E-07		5.25E-07		9.27E-11			
BENZO(a)PYRENE				3.49E-01	1.30E-01	1.00E+00	3.41E-07		2.93E-07		5.17E-11			
BENZO(b)FLUORANTHENE				7.35E-01	1.30E-01	1.00E+00	7.19E-07		6.17E-07		1.09E-10			
BENZO(g,h,i)PERYLENE				1.63E-01	1.30E-01	1.00E+00	1.60E-07		1.37E-07		2.42E-11			
BENZO(k)FLUORANTHENE				7.26E-01	1.30E-01	1.00E+00	7.11E-07		6.10E-07		1.08E-10			
bis(2-ETHYLHEXYL) PHTHALATE	2.00E-02	2.00E-02		7.00E+00	1.00E-01	1.00E+00	6.85E-06	0.00	4.52E-06	0.0002	1.04E-09		0.0006	15
CHRYSENE				1.43E+00	1.30E-01	1.00E+00	1.40E-06		1.20E-06		2.12E-10			
DIBENZ(a,h)ANTHRACENE				1.08E-01	1.30E-01	1.00E+00	1.06E-07		9.11E-08		1.61E-11			
DIBENZOFURAN	4.00E-03	4.00E-03		1.21E-01		1.00E+00	1.18E-07	0.00			1.79E-11		0.0000	1
FLUORANTHENE	4.00E-02	4.00E-02		3.66E+00	1.30E-01	1.00E+00	3.58E-06	0.00	3.08E-06	0.0001	5.43E-10		0.0002	4
FLUORENE	4.00E-02	4.00E-02		1.05E-01	1.30E-01	1.00E+00	1.03E-07	0.00	8.83E-08	0.0000	1.56E-11		0.0000	0
INDENO(1,2,3-c,d)PYRENE				2.63E-01	1.30E-01	1.00E+00	2.57E-07		2.20E-07		3.89E-11			
PHENANTHRENE	3.00E-01	3.00E-01		1.98E+00	1.30E-01	1.00E+00	1.93E-06	0.00	1.66E-06	0.0000	2.93E-10		0.0000	0
PYRENE	3.00E-02	3.00E-02		4.49E+00	1.30E-01	1.00E+00	4.39E-06	0.00	3.77E-06	0.0001	6.65E-10		0.0003	7
1,2,4-TRIMETHYLBENZENE	5.00E-02	5.00E-02	1.70E-03	9.70E-04		1.00E+00	9.50E-10	0.00			9.66E-09	0.00	0.0000	0
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	5.00E-02	5.00E-02	1.70E-03	2.13E-03		1.00E+00	2.09E-09	0.00			5.20E-08	0.00	0.0000	1
2-CHLOROTOLUENE	2.00E-02	2.00E-02	2.00E-02	1.00E-02		1.00E+00	9.78E-09	0.00			3.47E-07	0.00	0.0000	0
ACETONE	1.00E-01	1.00E-01	1.00E-01	1.67E-01		1.00E+00	1.63E-07	0.00			2.60E-06	0.00	0.0000	1
METHYL ETHYL KETONE (2-BUTANONE)	6.00E-01	6.00E-01	2.86E-01	4.14E-02		1.00E+00	4.05E-08	0.00			4.17E-07	0.00	0.0000	0
NAPHTHALENE	2.00E-02	2.00E-02	8.57E-04	3.05E-02	1.30E-01	1.00E+00	2.98E-08	0.00	2.56E-08	0.0000	1.38E-07	0.00	0.0002	4
n-PROPYLBENZENE	4.00E-02	4.00E-02	4.00E-02	1.80E-01		1.00E+00	1.76E-07	0.00			3.10E-06	0.00	0.0001	2
P-CYMENE (p-ISOPROPYLTOLUENE)	1.00E-01	1.00E-01	1.10E-01	1.30E-01		1.00E+00	1.27E-07	0.00			7.09E-06	0.00	0.0001	2
								0.003		0.0007		0.0005		100
											Total HI =	0.004		

Note:
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
EPC = Exposure Point Concentration
HI = Hazard Index
HQ = Hazard Quotient;
mg/kg-day = milligrams per kilogram per day
RfC = Reference Concentration
RfD_d = Dermal Reference Dose;
RfD_o = Oral Reference Dose
RfD_i = Inhalation Reference Dose

Table C-9

Current Site Specific Worker Scenario - Potential Excess Lifetime Cancer Risk

Surface Soil - Former Drum

Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation			%
Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC (mg/kg)	ABS_d	ABS_{gi}	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	Total ELCR	Contribution
BARIUM	D				1.90E+02		7.00E-02	7.99E-06				1.23E-09			
IRON	--				2.78E+04	0	1.00E+00	1E-03				1.79E-07			
LEAD	--				3.27E+01	0	1.00E+00	1E-06				2.11E-10			
p,p'-DDT	B2	3.40E-01	3.40E-01	3.40E-01	5.88E-01	3.00E-02	1.00E+00	2E-08	8.4E-09	5E-09	1.7E-09	3.80E-12	1.3E-12	1.0E-08	0
PCB-1260 (AROCHLOR 1260)	B2	2.00E+00	2.00E+00	2.00E+00	1.56E+01	1.40E-01	1.00E+00	7E-07	**1.3E-06**	6E-07	**1.2E-06**	1.01E-10	2.0E-10	**2.5E-06**	**76**
BENZO(a)PYRENE	B2	7.30E+00	7.30E+00		1.97E-01	1.30E-01	1.00E+00	8E-09	6.0E-08	7E-09	5.2E-08	1.27E-12		1.1E-07	3
BENZO(b)FLUORANTHENE	B2	7.30E-01	7.30E-01		3.59E-01	1.30E-01	1.00E+00	2E-08	1.1E-08	1E-08	9.4E-09	2.31E-12		2.0E-08	1
FLUORANTHENE	D				4.59E-01	1.30E-01	1.00E+00	2E-08		2E-08		2.96E-12			
INDENO(1,2,3-c,d)PYRENE	B2	7.30E-01	7.30E-01		1.97E-01	1.30E-01	1.00E+00	8E-09	6.0E-09	7E-09	5.2E-09	1.27E-12		1.1E-08	0
PYRENE	D				3.25E-01	1.30E-01	1.00E+00	1E-08		1E-08		2.10E-12			
TOLUENE	D				6.00E-03		1.00E+00	3E-10				1.26E-08			
XYLENES, TOTAL	D				6.00E-03	1.00E-01	1.00E+00	3E-10		2E-10		8.25E-09			
Total Risk									**1.9E-06**		**1.4E-06**		**6.3E-08**		100
												Total Risk =	**3.3E-06**		

Note:

Cancer WOE Classifications:

Group A: Human carcinogen

Group B (B1, B2): Probable human carcinogen

Group C: Possible human carcinogen

Group D: Not classifiable

Group E: No evidence of carcinogenicity

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

ELCR = Excess Lifetime Cancer Risk

EPC = Exposure Point Concentration

mg/kg-day = milligrams per kilogram per day

SF_d = Dermal Slope Factor

SF_o = Oral Slope Factor

SF_i = Inhalation Slope Factor

WOE = Weight of Evidence

Table C-10
Current Site Specific Worker Scenario - Potential Noncarcinogenic Risk
Surface Soil - Former Drum
Fort Richardson- Operable Unit E

Chemical	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC (mg/kg)	ABS_d	ABS_{gi}	Ingestion CDI (mg/kg-day)	Ingestion HQ	Dermal CDI (mg/kg-day)	Dermal HQ	Inhalation CDI (mg/kg-day)	Inhalation HQ	Total HI	% Contribution
BARIUM	7.00E-02	4.90E-03	1.43E-04	1.90E+02		7.00E-02	1.86E-04	0.00			2.87E-08	0.00	0.00	1
IRON	3.00E-01	3.00E-01		2.78E+04	0	1.00E+00	3E-02	0.0907			4.18E-06		0.0907	46
LEAD				3.27E+01	0	1.00E+00	3E-05				4.92E-09			
p,p'-DDT	5.00E-04	5.00E-04		5.88E-01	3.00E-02	1.00E+00	6E-07	0.001151	1E-07	0.0002	8.86E-11		0.001379	1
PCB-1260 (AROCHLOR 1260)				1.56E+01	1.40E-01	1.00E+00	2E-05		1E-05		2.35E-09			
BENZO(a)PYRENE				1.97E-01	1.30E-01	1.00E+00	2E-07		2E-07		2.97E-11			
BENZO(b)FLUORANTHENE				3.59E-01	1.30E-01	1.00E+00	4E-07		3E-07		5.40E-11			
FLUORANTHENE	4.00E-02	4.00E-02		4.59E-01	1.30E-01	1.00E+00	4E-07	0.00001	4E-07	0.0000	6.90E-11		0.00002	0
INDENO(1,2,3-c,d)PYRENE				1.97E-01	1.30E-01	1.00E+00	2E-07		2E-07		2.97E-11			
PYRENE	3.00E-02	3.00E-02		3.25E-01	1.30E-01	1.00E+00	3E-07	0.0000	3E-07	0.0000	4.89E-11		0.000	0
TOLUENE	2.00E-01	2.00E-01	1.10E-01	6.00E-03		1.00E+00	6E-09	0.00000			2.95E-07	0.00	0.00000	0
XYLENES, TOTAL	2.00E-01	2.00E-01	2.90E-02	6.00E-03	1.00E-01	1.00E+00	6E-09	0.0000	4E-09	0.0000	1.92E-07	0.00	0.000	0
								0.18		0.0051		0.011		100
											Total HI =	0.20		

Note:
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
EPC = Exposure Point Concentration
HI = Hazard Index
HQ = Hazard Quotient;
mg/kg-day = milligrams per kilogram per day
RfC = Reference Concentration
RfD_d = Dermal Reference Dose;
RfD_o = Oral Reference Dose
RfD_i = Inhalation Reference Dose

Table C-11

Current Site Specific Worker Scenario - Potential Excess Lifetime Cancer Risk

Surface Soil - Former Tank Location

Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation			
Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC (mg/kg)	ABS_d	ABS_{gi}	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	Total ELCR	% Contribution
DIELDRIN	B2	1.6E+01	1.6E+01	1.6E+01	6.0E-04	0.1	1	1.5E-11	2.4E-10	1E-11	1.6E-10	2.3E-15	3.7E-14	4.0E-10	12
p,p'-DDE	B2	3.4E-01	3.4E-01		4.0E-04	0.03	1	1.0E-11	3.4E-12	2E-12	6.8E-13	1.5E-15		4.1E-12	0
p,p'-DDT	B2	3.4E-01	3.4E-01	3.4E-01	7.0E-03	0.03	1	1.8E-10	6.0E-11	3.5E-11	1.2E-11	2.7E-14	9.2E-15	7.2E-11	2
PCB-1260 (AROCHLOR 1260)	B2	2.0E+00	2.0E+00	2.0E+00	3.0E-02	0.14	1	7.5E-10	1.5E-09	7E-10	1.4E-09	1.2E-13	2.3E-13	2.9E-09	84
bis(2-ETHYLHEXYL) PHTHALATE	--	1.4E-02	1.4E-02		1.0E-01	0.1	1	2.5E-09	3.5E-11	1.7E-09	2.3E-11	3.9E-13		5.8E-11	2
CHRYSENE	B2	7.3E-03	7.3E-03		2.0E-02	0.13	1	5.0E-10	3.7E-12	4.3E-10	3.2E-12	7.7E-14		6.8E-12	0
Total Risk									1.9E-09		1.6E-09		2.8E-13		100
												Total Risk =	3.4E-09		

Note:

Cancer WOE Classifications:

- Group A: Human carcinogen
- Group B (B1, B2): Probable human carcinogen
- Group C: Possible human carcinogen
- Group D: Not classifiable
- Group E: No evidence of carcinogenicity

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

ELCR = Excess Lifetime Cancer Risk

EPC = Exposure Point Concentration

mg/kg-day = milligrams per kilogram per day

SF_d = Dermal Slope Factor

SF_o = Oral Slope Factor

SF_i = Inhalation Slope Factor

WOE = Weight of Evidence

Table C-12

Current Site Specific Worker Scenario - Potential Noncarcinogenic Risk

Surface Soil - Former Tank Location

Fort Richardson- Operable Unit E

Chemical	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC (mg/kg)	ABS_d	ABS_{gi}	Ingestion CDI (mg/kg-day)	Ingestion HQ	Dermal CDI (mg/kg-day)	Dermal HQ	Inhalation CDI (mg/kg-day)	Inhalation HQ	Total HI	% Contribution
DIELDRIN	0.00005	5.00E-05		6.0E-04	0.1	1	3.5E-10	0.0000070	2.3E-10	0.0000046	5.4E-14		0.000012	44
p,p'-DDE				4.0E-04	0.03	1	2.3E-10		4.6E-11		3.6E-14			
p,p'-DDT	0.0005	5.00E-04		7.0E-03	0.03	1	4.1E-09	0.0000082	8.1E-10	0.0000016	6.3E-13		0.0000098	37
PCB-1260 (AROCHLOR 1260)				3.0E-02	0.14	1	1.8E-08		1.6E-08		2.7E-12			
bis(2-ETHYLHEXYL) PHTHALATE	0.02	2.00E-02		1.0E-01	0.1	1	5.9E-08	0.0000029	3.9E-08	0.0000019	9.0E-12		0.0000049	18
CHRYSENE				2.0E-02	0.13	1	1.2E-08		1E-08		1.8E-12			
								0.000018		0.0000082				100
											Total HI =	0.000026		

Note:

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

EPC = Exposure Point Concentration

HI = Hazard Index

HQ = Hazard Quotient;

mg/kg-day = milligrams per kilogram per day

RfC = Reference Concentration

RfD_d = Dermal Reference Dose;

RfD_o = Oral Reference Dose

RfD_i = Inhalation Reference Dose

Table C-13

Current Site Specific Worker Scenario - Potential Excess Lifetime Cancer Risk

Surface Soil - Periphery Road

Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation			
Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC (mg/kg)	ABS_d	ABS_{gi}	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	Total ELCR	% Contribution
Total TCDD-Mammal	--	1.50E+05	1.50E+05	1.50E+05	1.15E-05	3.00E-02	1.00E+00	2.89E-13	4.3E-08	5.72E-14	8.6E-09	4.44E-17	6.7E-12	5.2E-08	24
PCB-1260 (AROCHLOR 1260)	B2	2.00E+00	2.00E+00	2.00E+00	1.74E+00	1.40E-01	1.00E+00	4.37E-08	8.7E-08	4.04E-08	8.1E-08	6.73E-12	1.3E-11	1.7E-07	76
Total Risk									1.3E-07		8.9E-08		2.0E-11		100
													Total Risk = 2.2E-07		

Note:

Cancer WOE Classifications:

Group A: Human carcinogen

Group B (B1, B2): Probable human carcinogen

Group C: Possible human carcinogen

Group D: Not classifiable

Group E: No evidence of carcinogenicity

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

ELCR = Excess Lifetime Cancer Risk

EPC = Exposure Point Concentration

mg/kg-day = milligrams per kilogram per day

SF_d = Dermal Slope Factor

SF_o = Oral Slope Factor

SF_i = Inhalation Slope Factor

WOE = Weight of Evidence

Table C-14

Current Site Specific Worker Scenario - Potential Noncarcinogenic Risk

Surface Soil - Periphery Road

Fort Richardson- Operable Unit E

Chemical	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC (mg/kg)	ABS_d	ABS_{gi}	Ingestion CDI (mg/kg-day)	Ingestion HQ	Dermal CDI (mg/kg-day)	Dermal HQ	Inhalation CDI (mg/kg-day)	Inhalation HQ	Total HI	% Contribution
Total TCDD-Mammal				1.15E-05	3.00E-02	1.00E+00	6.74E-12		1.33E-12		1.04E-15			#DIV/0!
PCB-1260 (AROCHLOR 1260)				1.74E+00	1.40E-01	1.00E+00	1.02E-06		9.43E-07		1.57E-10			#DIV/0!
														#DIV/0!
												Total HI =		

Note:
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
EPC = Exposure Point Concentration
HI = Hazard Index
HQ = Hazard Quotient;
mg/kg-day = milligrams per kilogram per day
RfC = Reference Concentration
RfD_d = Dermal Reference Dose;
RfD_o = Oral Reference Dose
RfD_i = Inhalation Reference Dose

Table C-15

Current Site Specific Worker Scenario - Potential Excess Lifetime Cancer Risk

Surface Soil - Soil Stockpile

Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation			%
Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC (mg/kg)	ABS_d	ABS_{gi}	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	Total ELCR	Contribution
Total TCDD-Mammal	--	1.50E+05	1.50E+05	1.50E+05	1.74E-06	3.00E-02	1.00E+00	4.38E-14	6.6E-09	8.67E-15	1.3E-09	6.74E-18	1.0E-12	7.9E-09	18
PCB-1260 (AROCHLOR 1260)	B2	2.00E+00	2.00E+00	2.00E+00	3.71E-01	1.40E-01	1.00E+00	9.33E-09	1.9E-08	8.62E-09	1.7E-08	1.43E-12	2.9E-12	3.6E-08	82
Total Risk									2.5E-08		1.9E-08		3.9E-12		100
													Total Risk =	4.4E-08	

Note:
Cancer WOE Classifications:
Group A: Human carcinogen
Group B (B1, B2): Probable human carcinogen
Group C: Possible human carcinogen
Group D: Not classifiable
Group E: No evidence of carcinogenicity
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
ELCR = Excess Lifetime Cancer Risk
EPC = Exposure Point Concentration
mg/kg-day = milligrams per kilogram per day
SF_d = Dermal Slope Factor
SF_o = Oral Slope Factor
SF_i = Inhalation Slope Factor
WOE = Weight of Evidence

Table C-16
Current Site Specific Worker Scenario - Potential Noncarcinogenic Risk
Surface Soil - Soil Stockpile
Fort Richardson- Operable Unit E

Chemical	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC (mg/kg)	ABS_d	ABS_{gi}	Ingestion CDI (mg/kg-day)	Ingestion HQ	Dermal CDI (mg/kg-day)	Dermal HQ	Inhalation CDI (mg/kg-day)	Inhalation HQ	Total HI	% Contribution
Total TCDD-Mammal				1.74E-06	3.00E-02	1.00E+00	1.02E-12		2.02E-13		1.57E-16			#DIV/0!
PCB-1260 (AROCHLOR 1260)				3.71E-01	1.40E-01	1.00E+00	2.18E-07		2.01E-07		3.35E-11			#DIV/0!
														#DIV/0!
												Total HI =		

Note:
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
EPC = Exposure Point Concentration
HI = Hazard Index
HQ = Hazard Quotient;
mg/kg-day = milligrams per kilogram per day
RfC = Reference Concentration
RfD_d = Dermal Reference Dose;
RfD_o = Oral Reference Dose
RfD_i = Inhalation Reference Dose

Table C-17

Current Site Specific Worker Scenario - Potential Excess Lifetime Cancer Risk

Surface Soil - Transformer Mounting

Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation			
Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC (mg/kg)	ABS_d	ABS_{gi}	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	Total ELCR	% Contribution
Total TCDD-Mammal	--	1.50E+05	1.50E+05	1.50E+05	1.68E-05	3.00E-02	1.00E+00	4.23E-13	6.4E-08	8.39E-14	1.3E-08	6.52E-17	9.8E-12	7.6E-08	7
PCB-1260 (AROCHLOR 1260)	B2	2.00E+00	2.00E+00	2.00E+00	9.83E+00	1.40E-01	1.00E+00	2.47E-07	4.9E-07	2.28E-07	4.6E-07	3.80E-11	7.6E-11	9.5E-07	93
Total Risk									5.6E-07		4.7E-07		8.6E-11		100
													Total Risk =		**1.0E-06**

Note:

Cancer WOE Classifications:

Group A: Human carcinogen

Group B (B1, B2): Probable human carcinogen

Group C: Possible human carcinogen

Group D: Not classifiable

Group E: No evidence of carcinogenicity

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

ELCR = Excess Lifetime Cancer Risk

EPC = Exposure Point Concentration

mg/kg-day = milligrams per kilogram per day

SF_d = Dermal Slope Factor

SF_o = Oral Slope Factor

SF_i = Inhalation Slope Factor

WOE = Weight of Evidence

Table C-18
Current Site Specific Worker Scenario - Potential Noncarcinogenic Risk
Surface Soil - Transformer Mounting
Fort Richardson- Operable Unit E

Chemical	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC (mg/kg)	ABS_d	ABS_{gi}	Ingestion CDI (mg/kg-day)	Ingestion HQ	Dermal CDI (mg/kg-day)	Dermal HQ	Inhalation CDI (mg/kg-day)	Inhalation HQ	Total HI	% Contribution
Total TCDD-Mammal				1.68E-05	3.00E-02	1.00E+00	9.88E-12		1.96E-12		1.52E-15			#DIV/0!
PCB-1260 (AROCHLOR 1260)				9.83E+00	1.40E-01	1.00E+00	5.77E-06		5.33E-06		8.87E-10			#DIV/0!
														#DIV/0!
												Total HI =		

Note:
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
EPC = Exposure Point Concentration
HI = Hazard Index
HQ = Hazard Quotient;
mg/kg-day = milligrams per kilogram per day
RfC = Reference Concentration
RfD_d = Dermal Reference Dose;
RfD_o = Oral Reference Dose
RfD_i = Inhalation Reference Dose

Table C-19
Onsite Worker Scenario - Potential Excess Lifetime Cancer Risk
Surface Soil - All Building 35-752 Areas
Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation			%
Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC (mg/kg)	ABS_d	ABS_{gi}	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	Total ELCR	Contribution
1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	B2	1.50E+03	1.50E+03	1.50E+03	8.59E-05	3.00E-02	1.00E+00	1.80E-11	2.7E-08	3.57E-12	5.3E-09	2.77E-15	4.2E-12	3.2E-08	1
1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXI	B2	1.50E+03	1.50E+03	1.50E+03	3.11E-04	3.00E-02	1.00E+00	6.52E-11	9.8E-08	1.29E-11	1.9E-08	1.00E-14	1.5E-11	1.2E-07	2
1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	B2	1.50E+03	1.50E+03	1.50E+03	1.28E-05	3.00E-02	1.00E+00	2.69E-12	4.0E-09	5.33E-13	8.0E-10	4.14E-16	6.2E-13	4.8E-09	0
1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	B2	1.50E+04	1.50E+04	1.50E+04	2.76E-05	3.00E-02	1.00E+00	5.78E-12	8.7E-08	1.14E-12	1.7E-08	8.89E-16	1.3E-11	1.0E-07	2
1,2,3,4,7,8-HEXACHLORODIBENZO-p-DIOXIN	B2	1.50E+04	1.50E+04	1.50E+04	2.10E-06	3.00E-02	1.00E+00	4.41E-13	6.6E-09	8.73E-14	1.3E-09	6.79E-17	1.0E-12	7.9E-09	0
1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	B2	1.50E+04	1.50E+04	1.50E+04	3.86E-06	3.00E-02	1.00E+00	8.09E-13	1.2E-08	1.60E-13	2.4E-09	1.25E-16	1.9E-12	1.5E-08	0
1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	B2	1.50E+04	1.50E+04	1.50E+04	7.05E-06	3.00E-02	1.00E+00	1.48E-12	2.2E-08	2.92E-13	4.4E-09	2.27E-16	3.4E-12	2.7E-08	1
1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	B2	1.50E+04	1.50E+04	1.50E+04	3.63E-06	3.00E-02	1.00E+00	7.61E-13	1.1E-08	1.51E-13	2.3E-09	1.17E-16	1.8E-12	1.4E-08	0
1,2,3,7,8-PENTACHLORODIBENZOFURAN	B2	7.50E+03	7.50E+03	7.50E+03	8.32E-05	3.00E-02	1.00E+00	1.74E-11	1.3E-07	3.45E-12	2.6E-08	2.68E-15	2.0E-11	1.6E-07	3
1,2,3,7,8-PENTACHLORODIBENZO-p-DIOXIN	B2	1.50E+05	1.50E+05	1.50E+05	6.40E-07	3.00E-02	1.00E+00	1.34E-13	2.0E-08	2.66E-14	4.0E-09	2.06E-17	3.1E-12	2.4E-08	0
2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	B2	1.50E+04	1.50E+04	1.50E+04	3.14E-06	3.00E-02	1.00E+00	6.58E-13	9.9E-09	1.30E-13	2.0E-09	1.01E-16	1.5E-12	1.2E-08	0
2,3,4,7,8-PENTACHLORODIBENZOFURAN	B2	7.50E+04	7.50E+04	7.50E+04	2.77E-06	3.00E-02	1.00E+00	5.82E-13	4.4E-08	1.15E-13	8.6E-09	8.95E-17	6.7E-12	5.2E-08	1
2,3,7,8-TETRACHLORODIBENZOFURAN	B2	1.50E+04	1.50E+04	1.50E+04	3.35E-06	3.00E-02	1.00E+00	7.03E-13	1.1E-08	1.39E-13	2.1E-09	1.08E-16	1.6E-12	1.3E-08	0
2,3,7,8-TETRACHLORODIBENZO-p-DIOXIN	B2	1.50E+05	1.50E+05	1.50E+05	3.49E-07	3.00E-02	1.00E+00	7.32E-14	1.1E-08	1.45E-14	2.2E-09	1.13E-17	1.7E-12	1.3E-08	0
OCTACHLORODIBENZOFURAN	B2	1.50E+01	1.50E+01	1.50E+01	4.74E-04	3.00E-02	1.00E+00	9.93E-11	1.5E-09	1.97E-11	3.0E-10	1.53E-14	2.3E-13	1.8E-09	0
OCTACHLORODIBENZO-p-DIOXIN	B2	1.50E+01	1.50E+01	1.50E+01	3.39E-03	3.00E-02	1.00E+00	7.11E-10	1.1E-08	1.41E-10	2.1E-09	1.09E-13	1.6E-12	1.3E-08	0
Total TCDD-Mammal	--	1.50E+05	1.50E+05	1.50E+05	9.32E-06	3.00E-02	1.00E+00	1.95E-12	2.9E-07	3.87E-13	5.8E-08	3.01E-16	4.5E-11	3.5E-07	7
BARIUM	D				1.10E+02		7.00E-02	2.30E-05				3.54E-09			
IRON	--				2.78E+04	0	1.00E+00	5.83E-03				8.97E-07			
LEAD	--				7.58E+01	0	1.00E+00	1.59E-05				2.45E-09			
ALDRIN	B2	1.70E+01	1.70E+01	1.72E+01	2.68E-03	1.00E-01	1.00E+00	5.61E-10	9.5E-09	3.70E-10	6.3E-09	8.63E-14	1.5E-12	1.6E-08	0
BETA BHC	C	1.80E+00	1.80E+00	1.80E+00	7.78E-03	4.00E-02	1.00E+00	1.63E-09	2.9E-09	4.31E-10	7.8E-10	2.51E-13	4.5E-13	3.7E-09	0
DIELDRIN	B2	1.60E+01	1.60E+01	1.61E+01	1.41E-02	1.00E-01	1.00E+00	2.95E-09	4.7E-08	1.94E-09	3.1E-08	4.53E-13	7.3E-12	7.8E-08	2
ENDRIN	D				1.18E-02	1.00E-01	1.00E+00	2.48E-09		1.63E-09		3.81E-13			
ENDRIN ALDEHYDE	D				6.17E-02	1.00E-01	1.00E+00	1.29E-08		8.53E-09		1.99E-12			
p,p'-DDD	B2	2.40E-01	2.40E-01		1.87E-01	3.00E-02	1.00E+00	3.91E-08	9.4E-09	7.75E-09	1.9E-09	6.02E-12		1.1E-08	0
p,p'-DDE	B2	3.40E-01	3.40E-01		1.47E-02	3.00E-02	1.00E+00	3.08E-09	1.0E-09	6.11E-10	2.1E-10	4.74E-13		1.3E-09	0
p,p'-DDT	B2	3.40E-01	3.40E-01	3.40E-01	1.00E-01	3.00E-02	1.00E+00	2.10E-08	7.2E-09	4.17E-09	1.4E-09	3.24E-12	1.1E-12	8.6E-09	0
PCB-1260 (Aroclor 1260)	B2	2.00E+00	2.00E+00	2.00E+00	4.50E+00	1.40E-01	1.00E+00	9.44E-07	**1.9E-06**	8.73E-07	**1.7E-06**	1.45E-10	2.9E-10	**3.6E-06**	**71**
2-METHYLNAPHTHALENE	--				9.46E-02	1.30E-01	1.00E+00	1.98E-08		1.70E-08		3.05E-12			
ACENAPHTHENE	D				9.46E-02	1.30E-01	1.00E+00	1.98E-08		1.70E-08		3.05E-12			
ACENAPHTHYLENE	--				9.40E-02	1.30E-01	1.00E+00	1.97E-08		1.69E-08		3.03E-12			
ANTHRACENE	D				2.78E-01	1.30E-01	1.00E+00	5.83E-08		5.00E-08		8.96E-12			
BENZO(a)ANTHRACENE	B2	7.30E-01	7.30E-01		2.67E-01	1.30E-01	1.00E+00	5.60E-08	4.1E-08	4.81E-08	3.5E-08	8.62E-12		7.6E-08	1
BENZO(a)PYRENE	B2	7.30E+00	7.30E+00		1.73E-01	1.30E-01	1.00E+00	3.63E-08	2.7E-07	3.12E-08	2.3E-07	5.59E-12		4.9E-07	**10**
BENZO(b)FLUORANTHENE	B2	7.30E-01	7.30E-01		3.59E-01	1.30E-01	1.00E+00	7.53E-08	5.5E-08	6.46E-08	4.7E-08	1.16E-11		1.0E-07	2
BENZO(g,h,i)PERYLENE	--			1.60E+01	1.10E-01	1.30E-01	1.00E+00	2.30E-08		1.97E-08		3.53E-12	5.7E-11	5.7E-11	0
BENZO(k)FLUORANTHENE	B2	7.30E-02	7.30E-02		3.17E-01	1.30E-01	1.00E+00	6.66E-08	4.9E-09	5.71E-08	4.2E-09	1.02E-11		9.0E-09	0
BENZYL BUTYL PHTHALATE	C				8.67E-02	1.00E-01	1.00E+00	1.82E-08		1.20E-08		2.80E-12			
bis(2-ETHYLHEXYL) PHTHALATE	--	1.40E-02	1.40E-02		4.53E+00	1.00E-01	1.00E+00	9.49E-07	1.3E-08	6.26E-07	8.8E-09	1.46E-10		2.2E-08	0
CHRYSENE	B2	7.30E-03	7.30E-03		5.63E-01	1.30E-01	1.00E+00	1.18E-07	8.6E-10	1.01E-07	7.4E-10	1.82E-11		1.6E-09	0
DIBENZ(a,h)ANTHRACENE	B2	7.30E+00	7.30E+00		8.62E-02	1.30E-01	1.00E+00	1.81E-08	1.3E-07	1.55E-08	1.1E-07	2.78E-12		2.5E-07	5
DIBENZOFURAN	D				9.59E-02		1.00E+00	2.01E-08				3.09E-12			
DI-n-BUTYL PHTHALATE	D				1.99E-01	1.00E-01	1.00E+00	4.17E-08		2.75E-08		6.42E-12			
FLUORANTHENE	D				1.67E+00	1.30E-01	1.00E+00	3.50E-07		3.01E-07		5.39E-11			
FLUORENE	D				8.88E-02	1.30E-01	1.00E+00	1.86E-08		1.60E-08		2.86E-12			
INDENO(1,2,3-c,d)PYRENE	B2	7.30E-01	7.30E-01		1.36E-01	1.30E-01	1.00E+00	2.86E-08	2.1E-08	2.45E-08	1.8E-08	4.39E-12		3.9E-08	1
PHENANTHRENE	D				8.66E-01	1.30E-01	1.00E+00	1.81E-07		1.56E-07		2.79E-11			
PYRENE	D				1.76E+00	1.30E-01	1.00E+00	3.69E-07		3.17E-07		5.68E-11			
1,1,1-TRICHLOROETHANE	D				1.96E-03		1.00E+00	4.12E-10				3.72E-08			
1,2,4-TRIMETHYLBENZENE	--				4.62E-03		1.00E+00	9.69E-10				9.85E-09			

Surface Soil - All Building 35-752 Areas
Fort Richardson - Operable Unit E

Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC (mg/kg)	ABS_d	ABS_{gi}	Ingestion CDI (mg/kg-day)	Ingestion ELCR	Dermal CDI (mg/kg-day)	Dermal ELCR	Inhalation CDI (mg/kg-day)	Inhalation ELCR	Total ELCR	% Contribution
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	--				4.76E-03		1.00E+00	9.98E-10				2.48E-08			
2-CHLOROTOLUENE	D				5.00E-03		1.00E+00	1.05E-09				3.73E-08			
ACETONE	D				9.39E-02		1.00E+00	1.97E-08				3.14E-07			
METHYL ETHYL KETONE (2-BUTANONE)	D				2.17E-02		1.00E+00	4.55E-09				4.69E-08			
METHYLENE CHLORIDE	B2	7.50E-03	7.50E-03	1.65E-03	9.95E-03		1.00E+00	2.09E-09	1.6E-11			1.67E-07	2.8E-10	2.9E-10	0
NAPHTHALENE	C				6.61E-03	1.30E-01	1.00E+00	1.39E-09		1.19E-09		6.41E-09			
n-PROPYLBENZENE	--				6.15E-02		1.00E+00	1.29E-08				2.27E-07			
P-CYMENE (p-ISOPROPYLTOLUENE)	D				3.72E-02		1.00E+00	7.79E-09				4.34E-07			
TOLUENE	D				2.49E-03		1.00E+00	5.22E-10				2.62E-08			
TRICHLOROETHYLENE (TCE)	B2	1.10E-02	1.10E-02	6.00E-03	9.78E-03		1.00E+00	2.05E-09	2.3E-11			1.26E-07	7.5E-10	7.8E-10	0
XYLENES, m & p	D				1.75E-03	1.00E-01	1.00E+00	3.67E-10		2.42E-10		1.20E-08			
XYLENES, TOTAL	D				3.03E-03	1.00E-01	1.00E+00	6.35E-10		4.19E-10		2.08E-08			
Total Risk									**2.8E-06**		**2.3E-06**		1.4E-09		100
												Total Risk =	**5.1E-06**		

Note:
Cancer WOE Classifications:
Group A: Human carcinogen
Group B (B1, B2): Probable human carcinogen
Group C: Possible human carcinogen
Group D: Not classifiable
Group E: No evidence of carcinogenicity
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
ELCR = Excess Lifetime Cancer Risk
EPC = Exposure Point Concentration
mg/kg-day = milligrams per kilogram per day
SF_d = Dermal Slope Factor
SF_o = Oral Slope Factor
SF_i = Inhalation Slope Factor
WOE = Weight of Evidence

Table C-20
Onsite Worker Scenario - Potential Noncarcinogenic Risk
Surface Soil - All Building 35-752 Areas
Fort Richardson- Operable Unit E

Chemical	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC (mg/kg)	ABS_d	ABS_{gi}	Ingestion CDI (mg/kg-day)	Ingestion HQ	Dermal CDI (mg/kg-day)	Dermal HQ	Inhalation CDI (mg/kg-day)	Inhalation HQ	Total HI	% Contribution
1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN				8.59E-05	3.00E-02	1.00E+00	5.04E-11		9.98E-12		7.76E-15			
1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXI				3.11E-04	3.00E-02	1.00E+00	1.83E-10		3.61E-11		2.81E-14			
1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN				1.28E-05	3.00E-02	1.00E+00	7.53E-12		1.49E-12		1.16E-15			
1,2,3,4,7,8-HEXACHLORODIBENZOFURAN				2.76E-05	3.00E-02	1.00E+00	1.62E-11		3.20E-12		2.49E-15			
1,2,3,4,7,8-HEXACHLORODIBENZO-p-DIOXIN				2.10E-06	3.00E-02	1.00E+00	1.24E-12		2.45E-13		1.90E-16			
1,2,3,6,7,8-HEXACHLORODIBENZOFURAN				3.86E-06	3.00E-02	1.00E+00	2.27E-12		4.49E-13		3.49E-16			
1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN				7.05E-06	3.00E-02	1.00E+00	4.14E-12		8.19E-13		6.36E-16			
1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN				3.63E-06	3.00E-02	1.00E+00	2.13E-12		4.22E-13		3.28E-16			
1,2,3,7,8-PENTACHLORODIBENZOFURAN				8.32E-05	3.00E-02	1.00E+00	4.88E-11		9.67E-12		7.51E-15			
1,2,3,7,8-PENTACHLORODIBENZO-p-DIOXIN				6.40E-07	3.00E-02	1.00E+00	3.76E-13		7.44E-14		5.78E-17			
2,3,4,6,7,8-HEXACHLORODIBENZOFURAN				3.14E-06	3.00E-02	1.00E+00	1.84E-12		3.65E-13		2.83E-16			
2,3,4,7,8-PENTACHLORODIBENZOFURAN				2.77E-06	3.00E-02	1.00E+00	1.63E-12		3.23E-13		2.51E-16			
2,3,7,8-TETRACHLORODIBENZOFURAN				3.35E-06	3.00E-02	1.00E+00	1.97E-12		3.90E-13		3.03E-16			
2,3,7,8-TETRACHLORODIBENZO-p-DIOXIN				3.49E-07	3.00E-02	1.00E+00	2.05E-13		4.06E-14		3.15E-17			
OCTACHLORODIBENZOFURAN				4.74E-04	3.00E-02	1.00E+00	2.78E-10		5.51E-11		4.28E-14			
OCTACHLORODIBENZO-p-DIOXIN				3.39E-03	3.00E-02	1.00E+00	1.99E-09		3.94E-10		3.06E-13			
Total TCDD-Mammal				9.32E-06	3.00E-02	1.00E+00	5.47E-12		1.08E-12		8.42E-16			
BARIUM	7.00E-02	4.90E-03	1.43E-04	1.10E+02		7.00E-02	6.44E-05	0.00			9.91E-09	0.00	0.00	2
IRON	3.00E-01	3.00E-01		2.78E+04	0	1.00E+00	1.63E-02	0.05			2.51E-06		0.05	96
LEAD				7.58E+01	0	1.00E+00	4.45E-05				6.85E-09			
ALDRIN	3.00E-05	3.00E-05		2.68E-03	1.00E-01	1.00E+00	1.57E-09	0.00	1.04E-09	0.0000	2.42E-13		0.00	0
BETA BHC	2.00E-04	2.00E-04		7.78E-03	4.00E-02	1.00E+00	4.57E-09	0.00	1.21E-09	0.0000	7.03E-13		0.00	0
DIELDRIN	5.00E-05	5.00E-05		1.41E-02	1.00E-01	1.00E+00	8.25E-09	0.00	5.44E-09	0.0001	1.27E-12		0.00	0
ENDRIN	3.00E-04	3.00E-04		1.18E-02	1.00E-01	1.00E+00	6.93E-09	0.00	4.58E-09	0.0000	1.07E-12		0.00	0
ENDRIN ALDEHYDE	3.00E-04	3.00E-04		6.17E-02	1.00E-01	1.00E+00	3.62E-08	0.00	2.39E-08	0.0001	5.57E-12		0.00	0
p,p'-DDD				1.87E-01	3.00E-02	1.00E+00	1.10E-07		2.17E-08		1.69E-11			
p,p'-DDE				1.47E-02	3.00E-02	1.00E+00	8.64E-09		1.71E-09		1.33E-12			
p,p'-DDT	5.00E-04	5.00E-04		1.00E-01	3.00E-02	1.00E+00	5.89E-08	0.00	1.17E-08	0.0000	9.07E-12		0.00	0
PCB-1260 (Aroclor 1260)				4.50E+00	1.40E-01	1.00E+00	2.64E-06		2.44E-06		4.07E-10			
2-METHYLNAPHTHALENE	9.00E-03	9.00E-03		9.46E-02	1.30E-01	1.00E+00	5.55E-08	0.00	4.76E-08	0.0000	8.54E-12		0.00	0
ACENAPHTHENE	6.00E-02	6.00E-02		9.46E-02	1.30E-01	1.00E+00	5.55E-08	0.00	4.76E-08	0.0000	8.54E-12		0.00	0
ACENAPHTHYLENE	6.00E-02	6.00E-02		9.40E-02	1.30E-01	1.00E+00	5.52E-08	0.00	4.73E-08	0.0000	8.49E-12		0.00	0
ANTHRACENE	3.00E-01	3.00E-01		2.78E-01	1.30E-01	1.00E+00	1.63E-07	0.00	1.40E-07	0.0000	2.51E-11		0.00	0
BENZO(a)ANTHRACENE				2.67E-01	1.30E-01	1.00E+00	1.57E-07		1.35E-07		2.41E-11			
BENZO(a)PYRENE				1.73E-01	1.30E-01	1.00E+00	1.02E-07		8.73E-08		1.56E-11			
BENZO(b)FLUORANTHENE				3.59E-01	1.30E-01	1.00E+00	2.11E-07		1.81E-07		3.24E-11			
BENZO(g,h,i)PERYLENE				1.10E-01	1.30E-01	1.00E+00	6.43E-08		5.52E-08		9.89E-12			
BENZO(k)FLUORANTHENE				3.17E-01	1.30E-01	1.00E+00	1.86E-07		1.60E-07		2.87E-11			
BENZYL BUTYL PHTHALATE	2.00E-01	2.00E-01		8.67E-02	1.00E-01	1.00E+00	5.09E-08	0.00	3.36E-08	0.0000	7.83E-12		0.00	0
bis(2-ETHYLHEXYL) PHTHALATE	2.00E-02	2.00E-02		4.53E+00	1.00E-01	1.00E+00	2.66E-06	0.00	1.75E-06	0.0001	4.09E-10		0.00	0
CHRYSENE				5.63E-01	1.30E-01	1.00E+00	3.30E-07		2.83E-07		5.08E-11			
DIBENZ(a,h)ANTHRACENE				8.62E-02	1.30E-01	1.00E+00	5.06E-08		4.34E-08		7.79E-12			
DIBENZOFURAN	4.00E-03	4.00E-03		9.59E-02		1.00E+00	5.63E-08	0.00			8.66E-12		0.00	0
DI-n-BUTYL PHTHALATE	1.00E-01	1.00E-01		1.99E-01	1.00E-01	1.00E+00	1.17E-07	0.00	7.71E-08	0.0000	1.80E-11		0.00	0
FLUORANTHENE	4.00E-02	4.00E-02		1.67E+00	1.30E-01	1.00E+00	9.81E-07	0.00	8.42E-07	0.0000	1.51E-10		0.00	0
FLUORENE	4.00E-02	4.00E-02		8.88E-02	1.30E-01	1.00E+00	5.21E-08	0.00	4.47E-08	0.0000	8.02E-12		0.00	0
INDENO(1,2,3-c,d)PYRENE				1.36E-01	1.30E-01	1.00E+00	8.00E-08		6.86E-08		1.23E-11			
PHENANTHRENE	3.00E-01	3.00E-01		8.66E-01	1.30E-01	1.00E+00	5.08E-07	0.00	4.36E-07	0.0000	7.82E-11		0.00	0
PYRENE	3.00E-02	3.00E-02		1.76E+00	1.30E-01	1.00E+00	1.03E-06	0.00	8.88E-07	0.0000	1.59E-10		0.00	0
1,1,1-TRICHLOROETHANE	2.80E-01	2.80E-01	6.30E-01	1.96E-03		1.00E+00	1.15E-09	0.00			1.04E-07	0.00	0.00	0
1,2,4-TRIMETHYLBENZENE	5.00E-02	5.00E-02	1.70E-03	4.62E-03		1.00E+00	2.71E-09	0.00			2.76E-08	0.00	0.00	0

Surface Soil - All Building 35-752 Areas
Fort Richardson- Operable Unit E

Chemical	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC (mg/kg)	ABS_d	ABS_{gi}	Ingestion CDI (mg/kg-day)	Ingestion HQ	Dermal CDI (mg/kg-day)	Dermal HQ	Inhalation CDI (mg/kg-day)	Inhalation HQ	Total HI	% Contribution
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	5.00E-02	5.00E-02	1.70E-03	4.76E-03		1.00E+00	2.79E-09	0.00			6.96E-08	0.00	0.00	0
2-CHLOROTOLUENE	2.00E-02	2.00E-02	2.00E-02	5.00E-03		1.00E+00	2.94E-09	0.00			1.04E-07	0.00	0.00	0
ACETONE	1.00E-01	1.00E-01	1.00E-01	9.39E-02		1.00E+00	5.51E-08	0.00			8.79E-07	0.00	0.00	0
METHYL ETHYL KETONE (2-BUTANONE)	6.00E-01	6.00E-01	2.86E-01	2.17E-02		1.00E+00	1.27E-08	0.00			1.31E-07	0.00	0.00	0
METHYLENE CHLORIDE	6.00E-02	6.00E-02	8.57E-01	9.95E-03		1.00E+00	5.84E-09	0.00			4.69E-07	0.00	0.00	0
NAPHTHALENE	2.00E-02	2.00E-02	8.57E-04	6.61E-03	1.30E-01	1.00E+00	3.88E-09	0.00	3.33E-09	0.0000	1.79E-08	0.00	0.00	0
n-PROPYLBENZENE	4.00E-02	4.00E-02	4.00E-02	6.15E-02		1.00E+00	3.61E-08	0.00			6.37E-07	0.00	0.00	0
P-CYMENE (p-ISOPROPYLTOLUENE)	1.00E-01	1.00E-01	1.10E-01	3.72E-02		1.00E+00	2.18E-08	0.00			1.22E-06	0.00	0.00	0
TOLUENE	2.00E-01	2.00E-01	1.10E-01	2.49E-03		1.00E+00	1.46E-09	0.00			7.34E-08	0.00	0.00	0
TRICHLOROETHYLENE (TCE)	6.00E-03	6.00E-03	6.00E-03	9.78E-03		1.00E+00	5.74E-09	0.00			3.52E-07	0.00	0.00	0
XYLENES, m & p	2.00E-01	2.00E-01	2.90E-02	1.75E-03	1.00E-01	1.00E+00	1.03E-09	0.00	6.78E-10	0.0000	3.37E-08	0.00	0.00	0
XYLENES, TOTAL	2.00E-01	2.00E-01	2.90E-02	3.03E-03	1.00E-01	1.00E+00	1.78E-09	0.00	1.17E-09	0.0000	5.83E-08	0.00	0.00	0
								0.06		0.0004		0.0003		100
											Total HI =	0.06		

Note:
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
EPC = Exposure Point Concentration
HI = Hazard Index
HQ = Hazard Quotient;
mg/kg-day = milligrams per kilogram per day
RfC = Reference Concentration
RfD_d = Dermal Reference Dose;
RfD_o = Oral Reference Dose
RfD_i = Inhalation Reference Dose

Table C-21
Onsite Worker Scenario - Potential Excess Lifetime Cancer Risk
Surface Soil-Building 35-752
Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation			
Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC (mg/kg)	ABS_d	ABS_{gi}	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	Total ELCR	% Contribution
DIELDRIN	B2	1.60E+01	1.60E+01	1.61E+01	8.48E-02	1.00E-01	1.00E+00	1.78E-08	2.8E-07	1.17E-08	1.9E-07	2.74E-12	4.4E-11	4.7E-07	6
p,p'-DDE	B2	3.40E-01	3.40E-01		6.05E-02	3.00E-02	1.00E+00	1.27E-08	4.3E-09	2.51E-09	8.5E-10	1.95E-12		5.2E-09	0
PCB-1260 (AROCHLOR 1260)	B2	2.00E+00	2.00E+00	2.00E+00	9.20E+00	1.40E-01	1.00E+00	1.93E-06	**3.9E-06**	1.78E-06	**3.6E-06**	2.97E-10	5.9E-10	**7.4E-06**	94
CHRYSENE	B2	7.30E-03	7.30E-03		1.00E-01	1.30E-01	1.00E+00	2.10E-08	1.5E-10	1.80E-08	1.3E-10	3.23E-12		2.8E-10	0
FLUORANTHENE	B2				1.00E-01	1.30E-01	1.00E+00	2.10E-08		1.80E-08		3.23E-12			
PYRENE	B2				1.00E-01	1.30E-01	1.00E+00	2.10E-08		1.80E-08		3.23E-12			
1,1,1-TRICHLOROETHANE	B2				2.62E-03		1.00E+00	5.50E-10				4.97E-08			
Total Risk									**4.1E-06**		**3.8E-06**		6.4E-10		100
													Total Risk =	**7.9E-06**	

Note:
Cancer WOE Classifications:
Group A: Human carcinogen
Group B (B1, B2): Probable human carcinogen
Group C: Possible human carcinogen
Group D: Not classifiable
Group E: No evidence of carcinogenicity
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
ELCR = Excess Lifetime Cancer Risk
EPC = Exposure Point Concentration
mg/kg-day = milligrams per kilogram per day
SF_d = Dermal Slope Factor
SF_o = Oral Slope Factor
SF_i = Inhalation Slope Factor
WOE = Weight of Evidence

Table C-22
Onsite Worker Scenario - Potential Noncarcinogenic Risk
Surface Soil-Building 35-752
Fort Richardson- Operable Unit E

							Ingestion		Dermal		Inhalation			
Chemical	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC (mg/kg)	ABS_d	ABS_{gi}	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ	Total HI	% Contribution
DIELDRIN	5.00E-05	5.00E-05		8.48E-02	1.00E-01	1.00E+00	4.98E-08	0.00	3.29E-08	0.0007	7.66E-12		0.0017	100
p,p'-DDE				6.05E-02	3.00E-02	1.00E+00	3.55E-08		7.03E-09		5.46E-12			
PCB-1260 (AROCHLOR 1260)				9.20E+00	1.40E-01	1.00E+00	5.40E-06		4.99E-06		8.31E-10			
CHRYSENE				1.00E-01	1.30E-01	1.00E+00	5.87E-08		5.04E-08		9.03E-12			
FLUORANTHENE	4.00E-02	4.00E-02		1.00E-01	1.30E-01	1.00E+00	5.87E-08	0.00	5.04E-08	0.0000	9.03E-12		0.0000027	0
PYRENE	3.00E-02	3.00E-02		1.00E-01	1.30E-01	1.00E+00	5.87E-08	0.00	5.04E-08	0.0000	9.03E-12		0.0000036	0
1,1,1-TRICHLOROETHANE	2.80E-01	2.80E-01	6.30E-01	2.62E-03		1.00E+00	1.54E-09	0.00			1.39E-07	0.00	0.00000023	0
								0.0010		0.0007		0.00000022		100
											Total HI =	0.0017		

Note:
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
EPC = Exposure Point Concentration
HI = Hazard Index
HQ = Hazard Quotient;
mg/kg-day = milligrams per kilogram per day
RfC = Reference Concentration
RfD_d = Dermal Reference Dose;
RfD_o = Oral Reference Dose
RfD_i = Inhalation Reference Dose

Table C-23

Onsite Worker Scenario - Potential Excess Lifetime Cancer Risk

Surface Soil-Burn Pit

Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation			%
Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC (mg/kg)	ABS_d	ABS_{gi}	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	Total ELCR	Contribution
1,2,3,4,6,7,8-HEPTACHLORODIBENZOFI	B2	1.50E+03	1.50E+03	1.50E+03	1.20E-06	3.00E-02	1.00E+00	2.52E-13	3.8E-10	4.98E-14	7.5E-11	3.87E-17	5.8E-14	4.5E-10	1
1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p	B2	1.50E+03	1.50E+03	1.50E+03	1.10E-06	3.00E-02	1.00E+00	2.31E-13	3.5E-10	4.57E-14	6.9E-11	3.55E-17	5.3E-14	4.1E-10	1
1,2,3,4,7,8,9-HEPTACHLORODIBENZOFI	B2	1.50E+03	1.50E+03	1.50E+03	8.20E-07	3.00E-02	1.00E+00	1.72E-13	2.6E-10	3.40E-14	5.1E-11	2.65E-17	4.0E-14	3.1E-10	0
1,2,3,4,7,8-HEXACHLORODIBENZOFUR/	B2	1.50E+04	1.50E+04	1.50E+04	1.30E-06	3.00E-02	1.00E+00	2.73E-13	4.1E-09	5.40E-14	8.1E-10	4.19E-17	6.3E-13	4.9E-09	6
1,2,3,6,7,8-HEXACHLORODIBENZOFUR/	B2	1.50E+04	1.50E+04	1.50E+04	2.60E-07	3.00E-02	1.00E+00	5.45E-14	8.2E-10	1.08E-14	1.6E-10	8.39E-18	1.3E-13	9.8E-10	1
OCTACHLORODIBENZOFURAN	B2	1.50E+01	1.50E+01	1.50E+01	4.80E-06	3.00E-02	1.00E+00	1.01E-12	1.5E-11	1.99E-13	3.0E-12	1.55E-16	2.3E-15	1.8E-11	0
OCTACHLORODIBENZO-p-DIOXIN	B2	1.50E+01	1.50E+01	1.50E+01	1.09E-05	3.00E-02	1.00E+00	2.29E-12	3.4E-11	4.53E-13	6.8E-12	3.52E-16	5.3E-15	4.1E-11	0
Total TCDD-Mammal	B2	1.50E+05	1.50E+05	1.50E+05	1.89E-07	3.00E-02	1.00E+00	3.96E-14	5.9E-09	7.85E-15	1.2E-09	6.10E-18	9.1E-13	7.1E-09	9
PCB-1260 (AROCHLOR 1260)	B2	2.00E+00	2.00E+00	2.00E+00	8.10E-02	1.40E-01	1.00E+00	1.70E-08	3.4E-08	1.57E-08	3.1E-08	2.61E-12	5.2E-12	6.5E-08	86
BENZYL BUTYL PHTHALATE	B2				2.00E-02	1.00E-01	1.00E+00	4.19E-09		2.77E-09		6.45E-13			
bis(2-ETHYLHEXYL) PHTHALATE	B2	1.40E-02	1.40E-02		7.60E-02	1.00E-01	1.00E+00	1.59E-08	2.2E-10	1.05E-08	1.5E-10	2.45E-12		3.7E-10	0
DI-n-BUTYL PHTHALATE	B2				8.00E-01	1.00E-01	1.00E+00	1.68E-07		1.11E-07		2.58E-11			
METHYL ETHYL KETONE (2-BUTANONE	B2				4.60E-02		1.00E+00	9.64E-09				9.93E-08			
METHYLENE CHLORIDE	B2	7.50E-03	7.50E-03	1.65E-03	3.30E-02		1.00E+00	6.92E-09	5.2E-11			5.55E-07	9.1E-10	9.6E-10	1
P-CYMENE (p-ISOPROPYLTOLUENE)	--				4.70E-03		1.00E+00	9.85E-10				5.49E-08			
TRICHLOROETHYLENE (TCE)	A	1.10E-02	1.10E-02	6.00E-03	3.00E-02		1.00E+00	6.29E-09	6.9E-11			3.86E-07	2.3E-09	2.4E-09	3
XYLENES, m & p	D				4.80E-03	1.00E-01	1.00E+00	1.01E-09		6.64E-10		3.30E-08			
Total Risk									4.0E-08		3.3E-08		3.2E-09		100
												Total Risk =	7.6E-08		

Note:

Cancer WOE Classifications:

Group A: Human carcinogen

Group B (B1, B2): Probable human carcinogen

Group C: Possible human carcinogen

Group D: Not classifiable

Group E: No evidence of carcinogenicity

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

ELCR = Excess Lifetime Cancer Risk

EPC = Exposure Point Concentration

mg/kg-day = milligrams per kilogram per day

SF_d = Dermal Slope Factor

SF_o = Oral Slope Factor

SF_i = Inhalation Slope Factor

WOE = Weight of Evidence

Table C-24
Onsite Worker Scenario - Potential Noncarcinogenic Risk
Surface Soil-Burn Pit
Fort Richardson- Operable Unit E

Chemical	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC (mg/kg)	ABS_d	ABS_{gi}	Ingestion CDI (mg/kg-day)	Ingestion HQ	Dermal CDI (mg/kg-day)	Dermal HQ	Inhalation CDI (mg/kg-day)	Inhalation HQ	Total HI	% Contribution
1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN				1.20E-06	3.00E-02	1.00E+00	7.05E-13		1.39E-13		1.08E-16			
1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXI				1.10E-06	3.00E-02	1.00E+00	6.46E-13		1.28E-13		9.94E-17			
1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN				8.20E-07	3.00E-02	1.00E+00	4.81E-13		9.53E-14		7.41E-17			
1,2,3,4,7,8-HEXACHLORODIBENZOFURAN				1.30E-06	3.00E-02	1.00E+00	7.63E-13		1.51E-13		1.17E-16			
1,2,3,6,7,8-HEXACHLORODIBENZOFURAN				2.60E-07	3.00E-02	1.00E+00	1.53E-13		3.02E-14		2.35E-17			
OCTACHLORODIBENZOFURAN				4.80E-06	3.00E-02	1.00E+00	2.82E-12		5.58E-13		4.34E-16			
OCTACHLORODIBENZO-p-DIOXIN				1.09E-05	3.00E-02	1.00E+00	6.40E-12		1.27E-12		9.84E-16			
Total TCDD-Mammal				1.89E-07	3.00E-02	1.00E+00	1.11E-13		2.20E-14		1.71E-17			
PCB-1260 (AROCHLOR 1260)				8.10E-02	1.40E-01	1.00E+00	4.76E-08		4.39E-08		7.32E-12			
BENZYL BUTYL PHTHALATE	2.00E-01	2.00E-01		2.00E-02	1.00E-01	1.00E+00	1.17E-08	0.00	7.75E-09	0.0000	1.81E-12		0.00	0
bis(2-ETHYLHEXYL) PHTHALATE	2.00E-02	2.00E-02		7.60E-02	1.00E-01	1.00E+00	4.46E-08	0.00	2.94E-08	0.0000	6.86E-12		0.00	2
DI-n-BUTYL PHTHALATE	1.00E-01	1.00E-01		8.00E-01	1.00E-01	1.00E+00	4.70E-07	0.00	3.10E-07	0.0000	7.23E-11		0.00	4
METHYL ETHYL KETONE (2-BUTANONE)	6.00E-01	6.00E-01	2.86E-01	4.60E-02		1.00E+00	2.70E-08	0.00			2.78E-07	0.00	0.00	1
METHYLENE CHLORIDE	6.00E-02	6.00E-02	8.57E-01	3.30E-02		1.00E+00	1.94E-08	0.00			1.55E-06	0.00	0.00	1
P-CYMENE (p-ISOPROPYLTOLUENE)	1.00E-01	1.00E-01	1.10E-01	4.70E-03		1.00E+00	2.76E-09	0.00			1.54E-07	0.00	0.00	1
TRICHLOROETHYLENE (TCE)	6.00E-03	6.00E-03	6.00E-03	3.00E-02		1.00E+00	1.76E-08	0.00			1.08E-06	0.00	0.00	90
XYLENES, m & p	2.00E-01	2.00E-01	2.90E-02	4.80E-03	1.00E-01	1.00E+00	2.82E-09	0.00	1.86E-09	0.0000	9.24E-08	0.00	0.00	2
								0.000010		0.0000046		0.00019		100
											Total HI =	0.00020		

Note:
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
EPC = Exposure Point Concentration
HI = Hazard Index
HQ = Hazard Quotient;
mg/kg-day = milligrams per kilogram per day
RfC = Reference Concentration
RfD_d = Dermal Reference Dose;
RfD_o = Oral Reference Dose
RfD_i = Inhalation Reference Dose

Table C-25
Onsite Worker Scenario - Potential Excess Lifetime Cancer Risk
Surface Soil-Cooling Pond
Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation			
Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC (mg/kg)	ABS_d	ABS_{gi}	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	Total ELCR	% Contribution
BARIUM	B3				9.38E+01		7.00E-02	1.97E-05				3.03E-09			
LEAD	B6				1.17E+02	0	1.00E+00	2.46E-05				3.79E-09			
ALDRIN	B10	1.70E+01	1.70E+01	1.72E+01	1.83E-03	1.00E-01	1.00E+00	3.83E-10	6.5E-09	2.53E-10	4.3E-09	5.89E-14	1.0E-12	1.1E-08	0
BETA BHC	B11	1.80E+00	1.80E+00	1.80E+00	3.19E-03	4.00E-02	1.00E+00	6.70E-10	1.2E-09	1.77E-10	3.2E-10	1.03E-13	1.9E-13	1.5E-09	0
DIELDRIN	B12	1.60E+01	1.60E+01	1.61E+01	5.63E-03	1.00E-01	1.00E+00	1.18E-09	1.9E-08	7.79E-10	1.2E-08	1.82E-13	2.9E-12	3.1E-08	1
ENDRIN	B13				3.40E-02	1.00E-01	1.00E+00	7.13E-09		4.71E-09		1.10E-12			
ENDRIN ALDEHYDE	B14				1.92E-03	1.00E-01	1.00E+00	4.03E-10		2.66E-10		6.20E-14			
p,p'-DDD	B15	2.40E-01	2.40E-01		3.59E-01	3.00E-02	1.00E+00	7.52E-08	1.8E-08	1.49E-08	3.6E-09	1.16E-11		2.2E-08	1
p,p'-DDE	B16	3.40E-01	3.40E-01		1.69E-02	3.00E-02	1.00E+00	3.55E-09	1.2E-09	7.03E-10	2.4E-10	5.46E-13		1.4E-09	0
p,p'-DDT	B17	3.40E-01	3.40E-01	3.40E-01	1.80E-01	3.00E-02	1.00E+00	3.77E-08	1.3E-08	7.47E-09	2.5E-09	5.81E-12	2.0E-12	1.5E-08	0
PCB-1260 (AROCHLOR 1260)	B18	2.00E+00	2.00E+00	2.00E+00	2.09E+00	1.40E-01	1.00E+00	4.37E-07	8.7E-07	4.04E-07	8.1E-07	6.73E-11	1.3E-10	**1.7E-06**	47
2-METHYLNAPHTHALENE	B19				1.17E-01	1.30E-01	1.00E+00	2.45E-08		2.10E-08		3.77E-12			
ACENAPHTHENE	B20				1.17E-01	1.30E-01	1.00E+00	2.45E-08		2.10E-08		3.77E-12			
ACENAPHTHYLENE	B21				1.19E-01	1.30E-01	1.00E+00	2.50E-08		2.15E-08		3.85E-12			
ANTHRACENE	B22				8.69E-01	1.30E-01	1.00E+00	1.82E-07		1.56E-07		2.80E-11			
BENZO(a)ANTHRACENE	B23	7.30E-01	7.30E-01		6.25E-01	1.30E-01	1.00E+00	1.31E-07	9.6E-08	1.12E-07	8.2E-08	2.02E-11		1.8E-07	5
BENZO(a)PYRENE	B24	7.30E+00	7.30E+00		3.49E-01	1.30E-01	1.00E+00	7.31E-08	5.3E-07	6.27E-08	4.6E-07	1.13E-11		9.9E-07	28
BENZO(b)FLUORANTHENE	B25	7.30E-01	7.30E-01		7.35E-01	1.30E-01	1.00E+00	1.54E-07	1.1E-07	1.32E-07	9.6E-08	2.37E-11		2.1E-07	6
BENZO(g,h,i)PERYLENE	B26			1.60E+01	1.63E-01	1.30E-01	1.00E+00	3.42E-08		2.93E-08		5.26E-12	8.4E-11	8.4E-11	0
BENZO(k)FLUORANTHENE	B27	7.30E-02	7.30E-02		7.26E-01	1.30E-01	1.00E+00	1.52E-07	1.1E-08	1.31E-07	9.5E-09	2.34E-11		2.1E-08	1
bis(2-ETHYLHEXYL) PHTHALATE	B28	1.40E-02	1.40E-02		7.00E+00	1.00E-01	1.00E+00	1.47E-06	2.1E-08	9.69E-07	1.4E-08	2.26E-10		3.4E-08	1
CHRYSENE	B29	7.30E-03	7.30E-03		1.43E+00	1.30E-01	1.00E+00	3.00E-07	2.2E-09	2.58E-07	1.9E-09	4.62E-11		4.1E-09	0
DIBENZ(a,h)ANTHRACENE	B30	7.30E+00	7.30E+00		1.08E-01	1.30E-01	1.00E+00	2.27E-08	1.7E-07	1.95E-08	1.4E-07	3.50E-12		3.1E-07	9
DIBENZOFURAN	B31				1.21E-01		1.00E+00	2.54E-08				3.90E-12			
FLUORANTHENE	B32				3.66E+00	1.30E-01	1.00E+00	7.68E-07		6.59E-07		1.18E-10			
FLUORENE	B33				1.05E-01	1.30E-01	1.00E+00	2.20E-08		1.89E-08		3.39E-12			
INDENO(1,2,3-c,d)PYRENE	B34	7.30E-01	7.30E-01		2.63E-01	1.30E-01	1.00E+00	5.51E-08	4.0E-08	4.72E-08	3.4E-08	8.47E-12		7.5E-08	2
PHENANTHRENE	B35				1.98E+00	1.30E-01	1.00E+00	4.14E-07		3.56E-07		6.38E-11			
PYRENE	B36				4.49E+00	1.30E-01	1.00E+00	9.41E-07		8.08E-07		1.45E-10			
1,2,4-TRIMETHYLBENZENE	B37				9.70E-04		1.00E+00	2.03E-10				2.07E-09			
1,3,5-TRIMETHYLBENZENE (MESITYLENI	B38				2.13E-03		1.00E+00	4.47E-10				1.11E-08			
2-CHLOROTOLUENE	B39				1.00E-02		1.00E+00	2.10E-09				7.44E-08			
ACETONE	B40				1.67E-01		1.00E+00	3.49E-08				5.57E-07			
METHYL ETHYL KETONE (2-BUTANONE)	B41				4.14E-02		1.00E+00	8.67E-09				8.93E-08			
NAPHTHALENE	B42				3.05E-02	1.30E-01	1.00E+00	6.40E-09		5.49E-09		2.96E-08			
n-PROPYLBENZENE	B43				1.80E-01		1.00E+00	3.77E-08				6.65E-07			
P-CYMENE (p-ISOPROPYLTOLUENE)	B44				1.30E-01		1.00E+00	2.73E-08				1.52E-06			
Total Risk									**1.9E-06**		**1.7E-06**		2.2E-10		100
												Total Risk =	**3.6E-06**		

Note:
Cancer WOE Classifications:
Group A: Human carcinogen
Group B (B1, B2): Probable human carcinogen
Group C: Possible human carcinogen
Group D: Not classifiable
Group E: No evidence of carcinogenicity
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
ELCR = Excess Lifetime Cancer Risk
EPC = Exposure Point Concentration
mg/kg-day = milligrams per kilogram per day
SF_d = Dermal Slope Factor
SF_o = Oral Slope Factor
SF_i = Inhalation Slope Factor
WOE = Weight of Evidence

Table C-26
Onsite Worker Scenario - Potential Noncarcinogenic Risk
Surface Soil-Cooling Pond
Fort Richardson- Operable Unit E

Chemical	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC (mg/kg)	ABS_d	ABS_{gi}	Ingestion CDI (mg/kg-day)	Ingestion HQ	Dermal CDI (mg/kg-day)	Dermal HQ	Inhalation CDI (mg/kg-day)	Inhalation HQ	Total HI	% Contribution
BARIUM	7.00E-02	4.90E-03	1.43E-04	9.38E+01		7.00E-02	5.51E-05	0.00			8.48E-09	0.00	0.001	37
LEAD				1.17E+02	0	1.00E+00	6.89E-05				1.06E-08			
ALDRIN	3.00E-05	3.00E-05		1.83E-03	1.00E-01	1.00E+00	1.07E-09	0.00	7.08E-10	0.0000	1.65E-13		0.000	3
BETA BHC	2.00E-04	2.00E-04		3.19E-03	4.00E-02	1.00E+00	1.87E-09	0.00	4.95E-10	0.0000	2.88E-13		0.000	1
DIELDRIN	5.00E-05	5.00E-05		5.63E-03	1.00E-01	1.00E+00	3.30E-09	0.00	2.18E-09	0.0000	5.08E-13		0.000	5
ENDRIN	3.00E-04	3.00E-04		3.40E-02	1.00E-01	1.00E+00	2.00E-08	0.00	1.32E-08	0.0000	3.07E-12		0.000	5
ENDRIN ALDEHYDE	3.00E-04	3.00E-04		1.92E-03	1.00E-01	1.00E+00	1.13E-09	0.00	7.45E-10	0.0000	1.74E-13		0.000	0
p,p'-DDD				3.59E-01	3.00E-02	1.00E+00	2.10E-07		4.17E-08		3.24E-11			
p,p'-DDE				1.69E-02	3.00E-02	1.00E+00	9.94E-09		1.97E-09		1.53E-12			
p,p'-DDT	5.00E-04	5.00E-04		1.80E-01	3.00E-02	1.00E+00	1.06E-07	0.00	2.09E-08	0.0000	1.63E-11		0.000	11
PCB-1260 (AROCHLOR 1260)				2.09E+00	1.40E-01	1.00E+00	1.22E-06		1.13E-06		1.88E-10			
2-METHYLNAPHTHALENE	9.00E-03	9.00E-03		1.17E-01	1.30E-01	1.00E+00	6.86E-08	0.00	5.88E-08	0.0000	1.05E-11		0.000	1
ACENAPHTHENE	6.00E-02	6.00E-02		1.17E-01	1.30E-01	1.00E+00	6.85E-08	0.00	5.88E-08	0.0000	1.05E-11		0.000	0
ACENAPHTHYLENE	6.00E-02	6.00E-02		1.19E-01	1.30E-01	1.00E+00	7.00E-08	0.00	6.01E-08	0.0000	1.08E-11		0.000	0
ANTHRACENE	3.00E-01	3.00E-01		8.69E-01	1.30E-01	1.00E+00	5.10E-07	0.00	4.38E-07	0.0000	7.85E-11		0.000	0
BENZO(a)ANTHRACENE				6.25E-01	1.30E-01	1.00E+00	3.67E-07		3.15E-07		5.65E-11			
BENZO(a)PYRENE				3.49E-01	1.30E-01	1.00E+00	2.05E-07		1.76E-07		3.15E-11			
BENZO(b)FLUORANTHENE				7.35E-01	1.30E-01	1.00E+00	4.31E-07		3.70E-07		6.64E-11			
BENZO(g,h,i)PERYLENE				1.63E-01	1.30E-01	1.00E+00	9.58E-08		8.22E-08		1.47E-11			
BENZO(k)FLUORANTHENE				7.26E-01	1.30E-01	1.00E+00	4.26E-07		3.66E-07		6.56E-11			
bis(2-ETHYLHEXYL) PHTHALATE	2.00E-02	2.00E-02		7.00E+00	1.00E-01	1.00E+00	4.11E-06	0.00	2.71E-06	0.0001	6.32E-10		0.000	15
CHRYSENE				1.43E+00	1.30E-01	1.00E+00	8.41E-07		7.22E-07		1.29E-10			
DIBENZ(a,h)ANTHRACENE				1.08E-01	1.30E-01	1.00E+00	6.37E-08		5.46E-08		9.80E-12			
DIBENZOFURAN	4.00E-03	4.00E-03		1.21E-01		1.00E+00	7.11E-08	0.00			1.09E-11		0.000	1
FLUORANTHENE	4.00E-02	4.00E-02		3.66E+00	1.30E-01	1.00E+00	2.15E-06	0.00	1.85E-06	0.0000	3.31E-10		0.000	4
FLUORENE	4.00E-02	4.00E-02		1.05E-01	1.30E-01	1.00E+00	6.17E-08	0.00	5.30E-08	0.0000	9.49E-12		0.000	0
INDENO(1,2,3-c,d)PYRENE				2.63E-01	1.30E-01	1.00E+00	1.54E-07		1.32E-07		2.37E-11			
PHENANTHRENE	3.00E-01	3.00E-01		1.98E+00	1.30E-01	1.00E+00	1.16E-06	0.00	9.96E-07	0.0000	1.79E-10		0.000	0
PYRENE	3.00E-02	3.00E-02		4.49E+00	1.30E-01	1.00E+00	2.64E-06	0.00	2.26E-06	0.0001	4.05E-10		0.000	7
1,2,4-TRIMETHYLBENZENE	5.00E-02	5.00E-02	1.70E-03	9.70E-04		1.00E+00	5.70E-10	0.00			5.79E-09	0.00	0.000	0
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	5.00E-02	5.00E-02	1.70E-03	2.13E-03		1.00E+00	1.25E-09	0.00			3.12E-08	0.00	0.000	1
2-CHLOROTOLUENE	2.00E-02	2.00E-02	2.00E-02	1.00E-02		1.00E+00	5.87E-09	0.00			2.08E-07	0.00	0.000	0
ACETONE	1.00E-01	1.00E-01	1.00E-01	1.67E-01		1.00E+00	9.79E-08	0.00			1.56E-06	0.00	0.000	1
METHYL ETHYL KETONE (2-BUTANONE)	6.00E-01	6.00E-01	2.86E-01	4.14E-02		1.00E+00	2.43E-08	0.00			2.50E-07	0.00	0.000	0
NAPHTHALENE	2.00E-02	2.00E-02	8.57E-04	3.05E-02	1.30E-01	1.00E+00	1.79E-08	0.00	1.54E-08	0.0000	8.28E-08	0.00	0.000	4
n-PROPYLBENZENE	4.00E-02	4.00E-02	4.00E-02	1.80E-01		1.00E+00	1.06E-07	0.00			1.86E-06	0.00	0.000	2
P-CYMENE (p-ISOPROPYLTOLUENE)	1.00E-01	1.00E-01	1.10E-01	1.30E-01		1.00E+00	7.63E-08	0.00			4.25E-06	0.00	0.000	2
								0.002		0.0004		0.0003		100
											Total HI =	0.002		

Note:
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
EPC = Exposure Point Concentration
HI = Hazard Index
HQ = Hazard Quotient;
mg/kg-day = milligrams per kilogram per day
RfC = Reference Concentration
RfD_d = Dermal Reference Dose;
RfD_o = Oral Reference Dose
RfD_i = Inhalation Reference Dose

Table C-27
Onsite Worker Scenario - Potential Excess Lifetime Cancer Risk
Surface Soil-Former Drum
Fort Richardson - Operable Unit E

Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC (mg/kg)	ABS_d	ABS_{gi}	Ingestion CDI (mg/kg-day)	Ingestion ELCR	Dermal CDI (mg/kg-day)	Dermal ELCR	Inhalation CDI (mg/kg-day)	Inhalation ELCR	Total ELCR	% Contribution
BARIUM	B2				1.90E+02		7.00E-02	3.99E-05				6.14E-09			
IRON	B2				2.78E+04	0	1.00E+00	5.83E-03				8.97E-07			
LEAD	B2				3.27E+01	0	1.00E+00	6.85E-06				1.05E-09			
p,p'-DDT	B2	3.40E-01	3.40E-01	3.40E-01	5.88E-01	3.00E-02	1.00E+00	1.23E-07	4.2E-08	2.44E-08	8.3E-09	1.90E-11	6.4E-12	5.0E-08	0
PCB-1260 (AROCHLOR 1260)	B2	2.00E+00	2.00E+00	2.00E+00	1.56E+01	1.40E-01	1.00E+00	3.27E-06	**6.5E-06**	3.02E-06	**6.0E-06**	5.03E-10	1.0E-09	**1.3E-05**	94
BENZO(a)PYRENE	--	7.30E+00	7.30E+00		1.97E-01	1.30E-01	1.00E+00	4.13E-08	3.0E-07	3.55E-08	2.6E-07	6.36E-12		5.6E-07	4
BENZO(b)FLUORANTHENE	A	7.30E-01	7.30E-01		3.59E-01	1.30E-01	1.00E+00	7.52E-08	5.5E-08	6.45E-08	4.7E-08	1.16E-11		1.0E-07	1
BENZO(k)FLUORANTHENE	D	7.30E-02	7.30E-02		3.24E-01	1.30E-01	1.00E+00	6.80E-08	5.0E-09	5.83E-08	4.3E-09	1.05E-11		9.2E-09	0
CHRYSENE	B1	7.30E-03	7.30E-03		3.74E-01	1.30E-01	1.00E+00	7.84E-08	5.7E-10	6.73E-08	4.9E-10	1.21E-11		1.1E-09	0
FLUORANTHENE	B1				4.59E-01	1.30E-01	1.00E+00	9.61E-08		8.25E-08		1.48E-11			
INDENO(1,2,3-c,d)PYRENE	A	7.30E-01	7.30E-01		1.97E-01	1.30E-01	1.00E+00	4.14E-08	3.0E-08	3.55E-08	2.6E-08	6.37E-12		5.6E-08	0
PYRENE	--				3.25E-01	1.30E-01	1.00E+00	6.81E-08		5.85E-08		1.05E-11			
TRIPHENYLENE	D				7.40E+02	0	--	1.55E-04				2.39E-08			
TOLUENE	--				6.00E-03		1.00E+00	1.26E-09				6.32E-08			
XYLENES, TOTAL	--				6.00E-03	1.00E-01	1.00E+00	1.26E-09		8.30E-10		4.12E-08			
Total Risk									**7.0E-06**		**6.4E-06**		1.0E-09		100
													Total Risk =	**1.3E-05**	

Note:
Cancer WOE Classifications:
Group A: Human carcinogen
Group B (B1, B2): Probable human carcinogen
Group C: Possible human carcinogen
Group D: Not classifiable
Group E: No evidence of carcinogenicity
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
ELCR = Excess Lifetime Cancer Risk
EPC = Exposure Point Concentration
mg/kg-day = milligrams per kilogram per day
SF_d = Dermal Slope Factor
SF_o = Oral Slope Factor
SF_i = Inhalation Slope Factor
WOE = Weight of Evidence

Table C-28
Onsite Worker Scenario - Potential Noncarcinogenic Risk
Surface Soil-Former Drum
Fort Richardson- Operable Unit E

Chemical	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC (mg/kg)	ABS_d	ABS_{gi}	Ingestion CDI (mg/kg-day)	Ingestion HQ	Dermal CDI (mg/kg-day)	Dermal HQ	Inhalation CDI (mg/kg-day)	Inhalation HQ	Total HI	% Contribution
BARIUM	7.00E-02	4.90E-03	1.43E-04	1.90E+02		7.00E-02	1.12E-04	0.00			1.72E-08	0.00	0.0017	3
IRON	3.00E-01	3.00E-01		2.78E+04	0	1.00E+00	1.63E-02	0.05			2.51E-06		0.054	95
LEAD				3.27E+01	0	1.00E+00	1.92E-05				2.95E-09			
p,p'-DDT	5.00E-04	5.00E-04		5.88E-01	3.00E-02	1.00E+00	3.45E-07	0.00	6.84E-08	0.0001	5.31E-11		0.0008	1
PCB-1260 (AROCHLOR 1260)				1.56E+01	1.40E-01	1.00E+00	9.16E-06		8.46E-06		1.41E-09			
BENZO(a)PYRENE				1.97E-01	1.30E-01	1.00E+00	1.16E-07		9.93E-08		1.78E-11			
BENZO(b)FLUORANTHENE				3.59E-01	1.30E-01	1.00E+00	2.11E-07		1.81E-07		3.24E-11			
BENZO(k)FLUORANTHENE				3.24E-01	1.30E-01	1.00E+00	1.90E-07		1.63E-07		2.93E-11			
CHRYSENE				3.74E-01	1.30E-01	1.00E+00	2.20E-07		1.88E-07		3.38E-11			
FLUORANTHENE	4.00E-02	4.00E-02		4.59E-01	1.30E-01	1.00E+00	2.69E-07	0.00	2.31E-07	0.0000	4.14E-11		0.000013	0
INDENO(1,2,3-c,d)PYRENE				1.97E-01	1.30E-01	1.00E+00	1.16E-07		9.94E-08		1.78E-11			
PYRENE	3.00E-02	3.00E-02		3.25E-01	1.30E-01	1.00E+00	1.91E-07	0.00	1.64E-07	0.0000	2.94E-11		0.000012	0
TRIPHENYLENE				7.40E+02	0	--	4.34E-04				6.68E-08			
TOLUENE	2.00E-01	2.00E-01	1.10E-01	6.00E-03		1.00E+00	3.52E-09	0.00			1.77E-07	0.00	0.0000016	0
XYLENES, TOTAL	2.00E-01	2.00E-01	2.90E-02	6.00E-03	1.00E-01	1.00E+00	3.52E-09	0.00	2.32E-09	0.0000	1.15E-07	0.00	0.0000040	0
								0.06		0.0001		0.000		100
											Total HI =	0.06		

Note:
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
EPC = Exposure Point Concentration
HI = Hazard Index
HQ = Hazard Quotient;
mg/kg-day = milligrams per kilogram per day
RfC = Reference Concentration
RfD_d = Dermal Reference Dose;
RfD_o = Oral Reference Dose
RfD_i = Inhalation Reference Dose

Table C-29
Onsite Worker Scenario - Potential Excess Lifetime Cancer Risk
Surface Soil-Former Tank
Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation			
Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC (mg/kg)	ABS_d	ABS_{gi}	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	Total ELCR	% Contribution
DIELDRIN	B2	1.60E+01	1.60E+01	1.61E+01	6.00E-04	1.00E-01	1.00E+00	1.26E-10	2.0E-09	8.30E-11	1.3E-09	1.94E-14	3.1E-13	3.3E-09	12
p,p'-DDE	B2	3.40E-01	3.40E-01		4.00E-04	3.00E-02	1.00E+00	8.39E-11	2.9E-11	1.66E-11	5.6E-12	1.29E-14		3.4E-11	0
p,p'-DDT	B2	3.40E-01	3.40E-01	3.40E-01	7.00E-03	3.00E-02	1.00E+00	1.47E-09	5.0E-10	2.91E-10	9.9E-11	2.26E-13	7.7E-14	6.0E-10	2
PCB-1260 (AROCHLOR 1260)	B2	2.00E+00	2.00E+00	2.00E+00	3.00E-02	1.40E-01	1.00E+00	6.29E-09	1.3E-08	5.81E-09	1.2E-08	9.68E-13	1.9E-12	2.4E-08	84
bis(2-ETHYLHEXYL) PHTHALATE	B2	1.40E-02	1.40E-02		1.00E-01	1.00E-01	1.00E+00	2.10E-08	2.9E-10	1.38E-08	1.9E-10	3.23E-12		4.9E-10	2
Total Risk									1.5E-08		1.3E-08		2.3E-12		100
												Total Risk =	2.9E-08		

Note:
Cancer WOE Classifications:
Group A: Human carcinogen
Group B (B1, B2): Probable human carcinogen
Group C: Possible human carcinogen
Group D: Not classifiable
Group E: No evidence of carcinogenicity
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
ELCR = Excess Lifetime Cancer Risk
EPC = Exposure Point Concentration
mg/kg-day = milligrams per kilogram per day
SF_d = Dermal Slope Factor
SF_o = Oral Slope Factor
SF_i = Inhalation Slope Factor
WOE = Weight of Evidence

Table C-30
Onsite Worker Scenario - Potential Noncarcinogenic Risk
Surface Soil-Former Tank
Fort Richardson- Operable Unit E

Chemical	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC (mg/kg)	ABS_d	ABS_{gi}	Ingestion CDI (mg/kg-day)	Ingestion HQ	Dermal CDI (mg/kg-day)	Dermal HQ	Inhalation CDI (mg/kg-day)	Inhalation HQ	Total HI	% Contribution
DIELDRIN	5.00E-05	5.00E-05		6.00E-04	1.00E-01	1.00E+00	3.52E-10	0.00	2.32E-10	0.0000	5.42E-14		0.000012	44
p,p'-DDE				4.00E-04	3.00E-02	1.00E+00	2.35E-10		4.65E-11		3.61E-14			
p,p'-DDT	5.00E-04	5.00E-04		7.00E-03	3.00E-02	1.00E+00	4.11E-09	0.00	8.14E-10	0.0000	6.32E-13		0.000010	37
PCB-1260 (AROCHLOR 1260)				3.00E-02	1.40E-01	1.00E+00	1.76E-08		1.63E-08		2.71E-12			
bis(2-ETHYLHEXYL) PHTHALATE	2.00E-02	2.00E-02		1.00E-01	1.00E-01	1.00E+00	5.87E-08	0.00	3.87E-08	0.0000	9.03E-12		0.0000049	18
								0.000018		0.000008				100

Total HI = 0.000026

Note:
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
EPC = Exposure Point Concentration
HI = Hazard Index
HQ = Hazard Quotient;
mg/kg-day = milligrams per kilogram per day
RfC = Reference Concentration
RfD_d = Dermal Reference Dose;
RfD_o = Oral Reference Dose
RfD_i = Inhalation Reference Dose

Table C-31

Onsite Worker Scenario - Potential Excess Lifetime Cancer Risk

Surface Soil-Periphery Road

Fort Richardson - Operable Unit E

Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC (mg/kg)	ABS_d	ABS_{gi}	Ingestion CDI (mg/kg-day)	Ingestion ELCR	Dermal CDI (mg/kg-day)	Dermal ELCR	Inhalation CDI (mg/kg-day)	Inhalation ELCR	Total ELCR	% Contribution
1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	B2	1.50E+03	1.50E+03	1.50E+03	6.72E-05	3.00E-02	1.00E+00	1.41E-11	2.1E-08	2.79E-12	4.2E-09	2.17E-15	3.3E-12	2.5E-08	1
1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN	B2	1.50E+03	1.50E+03	1.50E+03	1.42E-04	3.00E-02	1.00E+00	2.98E-11	4.5E-08	5.90E-12	8.8E-09	4.58E-15	6.9E-12	5.4E-08	3
1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	B2	1.50E+03	1.50E+03	1.50E+03	2.37E-05	3.00E-02	1.00E+00	4.97E-12	7.5E-09	9.84E-13	1.5E-09	7.64E-16	1.1E-12	8.9E-09	0
1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	B2	1.50E+04	1.50E+04	1.50E+04	5.81E-05	3.00E-02	1.00E+00	1.22E-11	1.8E-07	2.41E-12	3.6E-08	1.87E-15	2.8E-11	2.2E-07	12
1,2,3,4,7,8-HEXACHLORODIBENZO-p-DIOXIN	B2	1.50E+04	1.50E+04	1.50E+04	1.10E-06	3.00E-02	1.00E+00	2.31E-13	3.5E-09	4.57E-14	6.9E-10	3.55E-17	5.3E-13	4.1E-09	0
1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	B2	1.50E+04	1.50E+04	1.50E+04	6.80E-06	3.00E-02	1.00E+00	1.43E-12	2.1E-08	2.82E-13	4.2E-09	2.19E-16	3.3E-12	2.6E-08	1
1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	B2	1.50E+04	1.50E+04	1.50E+04	3.70E-06	3.00E-02	1.00E+00	7.76E-13	1.2E-08	1.54E-13	2.3E-09	1.19E-16	1.8E-12	1.4E-08	1
1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	B2	1.50E+04	1.50E+04	1.50E+04	3.10E-06	3.00E-02	1.00E+00	6.50E-13	9.7E-09	1.29E-13	1.9E-09	1.00E-16	1.5E-12	1.2E-08	1
2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	B2	1.50E+04	1.50E+04	1.50E+04	4.00E-06	3.00E-02	1.00E+00	8.39E-13	1.3E-08	1.66E-13	2.5E-09	1.29E-16	1.9E-12	1.5E-08	1
2,3,4,7,8-PENTACHLORODIBENZOFURAN	B2	7.50E+04	7.50E+04	7.50E+04	4.90E-06	3.00E-02	1.00E+00	1.03E-12	7.7E-08	2.03E-13	1.5E-08	1.58E-16	1.2E-11	9.2E-08	5
2,3,7,8-TETRACHLORODIBENZOFURAN	B2	1.50E+04	1.50E+04	1.50E+04	5.20E-06	3.00E-02	1.00E+00	1.09E-12	1.6E-08	2.16E-13	3.2E-09	1.68E-16	2.5E-12	2.0E-08	1
OCTACHLORODIBENZOFURAN	B2	1.50E+01	1.50E+01	1.50E+01	2.04E-04	3.00E-02	1.00E+00	4.28E-11	6.4E-10	8.47E-12	1.3E-10	6.58E-15	9.9E-14	7.7E-10	0
OCTACHLORODIBENZO-p-DIOXIN	B2	1.50E+01	1.50E+01	1.50E+01	9.61E-04	3.00E-02	1.00E+00	2.01E-10	3.0E-09	3.99E-11	6.0E-10	3.10E-14	4.6E-13	3.6E-09	0
Total TCDD-Mammal	B2	1.50E+05	1.50E+05	1.50E+05	1.15E-05	3.00E-02	1.00E+00	2.41E-12	3.6E-07	4.77E-13	7.2E-08	3.70E-16	5.6E-11	4.3E-07	24
PCB-1260 (AROCHLOR 1260)	--	2.00E+00	2.00E+00	2.00E+00	1.74E+00	1.40E-01	1.00E+00	3.64E-07	7.3E-07	3.37E-07	6.7E-07	5.61E-11	1.1E-10	**1.4E-06**	76
Total Risk									**1.1E-06**		7.4E-07		1.7E-10		100
													Total Risk =	**1.8E-06**	

Note:

Cancer WOE Classifications:

Group A: Human carcinogen
Group B (B1, B2): Probable human carcinogen
Group C: Possible human carcinogen
Group D: Not classifiable
Group E: No evidence of carcinogenicity

ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
ELCR = Excess Lifetime Cancer Risk
EPC = Exposure Point Concentration
mg/kg-day = milligrams per kilogram per day
SF_d = Dermal Slope Factor
SF_o = Oral Slope Factor
SF_i = Inhalation Slope Factor
WOE = Weight of Evidence

Table C-32
Onsite Worker Scenario - Potential Noncarcinogenic Risk
Surface Soil-Periphery Road
Fort Richardson- Operable Unit E

Chemical	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC (mg/kg)	ABS_d	ABS_{gi}	Ingestion CDI (mg/kg-day)	Ingestion HQ	Dermal CDI (mg/kg-day)	Dermal HQ	Inhalation CDI (mg/kg-day)	Inhalation HQ	Total HI	% Contribution
1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN				6.72E-05	3.00E-02	1.00E+00	3.95E-11		7.81E-12		6.07E-15			#DIV/0!
1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN				1.42E-04	3.00E-02	1.00E+00	8.34E-11		1.65E-11		1.28E-14			#DIV/0!
1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN				2.37E-05	3.00E-02	1.00E+00	1.39E-11		2.75E-12		2.14E-15			#DIV/0!
1,2,3,4,7,8-HEXACHLORODIBENZOFURAN				5.81E-05	3.00E-02	1.00E+00	3.41E-11		6.75E-12		5.25E-15			#DIV/0!
1,2,3,4,7,8-HEXACHLORODIBENZO-p-DIOXIN				1.10E-06	3.00E-02	1.00E+00	6.46E-13		1.28E-13		9.94E-17			#DIV/0!
1,2,3,6,7,8-HEXACHLORODIBENZOFURAN				6.80E-06	3.00E-02	1.00E+00	3.99E-12		7.90E-13		6.14E-16			#DIV/0!
1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN				3.70E-06	3.00E-02	1.00E+00	2.17E-12		4.30E-13		3.34E-16			#DIV/0!
1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN				3.10E-06	3.00E-02	1.00E+00	1.82E-12		3.60E-13		2.80E-16			#DIV/0!
2,3,4,6,7,8-HEXACHLORODIBENZOFURAN				4.00E-06	3.00E-02	1.00E+00	2.35E-12		4.65E-13		3.61E-16			#DIV/0!
2,3,4,7,8-PENTACHLORODIBENZOFURAN				4.90E-06	3.00E-02	1.00E+00	2.88E-12		5.70E-13		4.43E-16			#DIV/0!
2,3,7,8-TETRACHLORODIBENZOFURAN				5.20E-06	3.00E-02	1.00E+00	3.05E-12		6.04E-13		4.70E-16			#DIV/0!
OCTACHLORODIBENZOFURAN				2.04E-04	3.00E-02	1.00E+00	1.20E-10		2.37E-11		1.84E-14			#DIV/0!
OCTACHLORODIBENZO-p-DIOXIN				9.61E-04	3.00E-02	1.00E+00	5.64E-10		1.12E-10		8.68E-14			#DIV/0!
Total TCDD-Mammal				1.15E-05	3.00E-02	1.00E+00	6.74E-12		1.33E-12		1.04E-15			#DIV/0!
PCB-1260 (AROCHLOR 1260)				1.74E+00	1.40E-01	1.00E+00	1.02E-06		9.43E-07		1.57E-10			#DIV/0!
														#DIV/0!

Total HI =

Note:
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
EPC = Exposure Point Concentration
HI = Hazard Index
HQ = Hazard Quotient;
mg/kg-day = milligrams per kilogram per day
RfC = Reference Concentration
RfD_d = Dermal Reference Dose;
RfD_o = Oral Reference Dose
RfD_i = Inhalation Reference Dose

Table C-33

Onsite Worker Scenario - Potential Excess Lifetime Cancer Risk

Surface Soil-Soil Stockpile

Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation			
Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC (mg/kg)	ABS_d	ABS_{gi}	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	Total ELCR	% Contribution
1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	B2	1.50E+03	1.50E+03	1.50E+03	1.39E-05	3.00E-02	1.00E+00	2.91E-12	4.4E-09	5.77E-13	8.7E-10	4.48E-16	6.7E-13	5.2E-09	1
1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN	B2	1.50E+03	1.50E+03	1.50E+03	1.53E-05	3.00E-02	1.00E+00	3.21E-12	4.8E-09	6.35E-13	9.5E-10	4.94E-16	7.4E-13	5.8E-09	2
1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	B2	1.50E+03	1.50E+03	1.50E+03	6.10E-06	3.00E-02	1.00E+00	1.28E-12	1.9E-09	2.53E-13	3.8E-10	1.97E-16	3.0E-13	2.3E-09	1
1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	B2	1.50E+04	1.50E+04	1.50E+04	1.16E-05	3.00E-02	1.00E+00	2.43E-12	3.6E-08	4.82E-13	7.2E-09	3.74E-16	5.6E-12	4.4E-08	12
1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	B2	1.50E+04	1.50E+04	1.50E+04	1.50E-06	3.00E-02	1.00E+00	3.15E-13	4.7E-09	6.23E-14	9.3E-10	4.84E-17	7.3E-13	5.7E-09	2
2,3,7,8-TETRACHLORODIBENZOFURAN	B2	1.50E+04	1.50E+04	1.50E+04	9.00E-07	3.00E-02	1.00E+00	1.89E-13	2.8E-09	3.74E-14	5.6E-10	2.90E-17	4.4E-13	3.4E-09	1
OCTACHLORODIBENZOFURAN	B2	1.50E+01	1.50E+01	1.50E+01	3.61E-05	3.00E-02	1.00E+00	7.57E-12	1.1E-10	1.50E-12	2.2E-11	1.16E-15	1.7E-14	1.4E-10	0
OCTACHLORODIBENZO-p-DIOXIN	B2	1.50E+01	1.50E+01	1.50E+01	8.58E-05	3.00E-02	1.00E+00	1.80E-11	2.7E-10	3.56E-12	5.3E-11	2.77E-15	4.2E-14	3.2E-10	0
Total TCDD-Mammal	B2	1.50E+05	1.50E+05	1.50E+05	1.74E-06	3.00E-02	1.00E+00	3.65E-13	5.5E-08	7.22E-14	1.1E-08	5.61E-17	8.4E-12	6.6E-08	18
PCB-1260 (AROCHLOR 1260)	B2	2.00E+00	2.00E+00	2.00E+00	3.71E-01	1.40E-01	1.00E+00	7.77E-08	1.6E-07	7.18E-08	1.4E-07	1.20E-11	2.4E-11	3.0E-07	82
Total Risk									2.1E-07		1.5E-07		3.2E-11		100
												Total Risk =	3.6E-07		

Note:

Cancer WOE Classifications:

Group A: Human carcinogen

Group B (B1, B2): Probable human carcinogen

Group C: Possible human carcinogen

Group D: Not classifiable

Group E: No evidence of carcinogenicity

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

ELCR = Excess Lifetime Cancer Risk

EPC = Exposure Point Concentration

mg/kg-day = milligrams per kilogram per day

SF_d = Dermal Slope Factor

SF_o = Oral Slope Factor

SF_i = Inhalation Slope Factor

WOE = Weight of Evidence

Table C-34

Onsite Worker Scenario - Potential Noncarcinogenic Risk

Surface Soil-Soil Stockpile

Fort Richardson- Operable Unit E

Chemical	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC (mg/kg)	ABS_d	ABS_{gi}	Ingestion CDI (mg/kg-day)	Ingestion HQ	Dermal CDI (mg/kg-day)	Dermal HQ	Inhalation CDI (mg/kg-day)	Inhalation HQ	Total HI	% Contribution
1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN				1.39E-05	3.00E-02	1.00E+00	8.16E-12		1.62E-12		1.26E-15			#DIV/0!
1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN				1.53E-05	3.00E-02	1.00E+00	8.98E-12		1.78E-12		1.38E-15			#DIV/0!
1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN				6.10E-06	3.00E-02	1.00E+00	3.58E-12		7.09E-13		5.51E-16			#DIV/0!
1,2,3,4,7,8-HEXACHLORODIBENZOFURAN				1.16E-05	3.00E-02	1.00E+00	6.81E-12		1.35E-12		1.05E-15			#DIV/0!
1,2,3,6,7,8-HEXACHLORODIBENZOFURAN				1.50E-06	3.00E-02	1.00E+00	8.81E-13		1.74E-13		1.35E-16			#DIV/0!
2,3,7,8-TETRACHLORODIBENZOFURAN				9.00E-07	3.00E-02	1.00E+00	5.28E-13		1.05E-13		8.13E-17			#DIV/0!
OCTACHLORODIBENZOFURAN				3.61E-05	3.00E-02	1.00E+00	2.12E-11		4.20E-12		3.26E-15			#DIV/0!
OCTACHLORODIBENZO-p-DIOXIN				8.58E-05	3.00E-02	1.00E+00	5.04E-11		9.97E-12		7.75E-15			#DIV/0!
Total TCDD-Mammal				1.74E-06	3.00E-02	1.00E+00	1.02E-12		2.02E-13		1.57E-16			#DIV/0!
PCB-1260 (AROCHLOR 1260)				3.71E-01	1.40E-01	1.00E+00	2.18E-07		2.01E-07		3.35E-11			#DIV/0!
												Total HI =		#DIV/0!

Note:

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

EPC = Exposure Point Concentration

HI = Hazard Index

HQ = Hazard Quotient;

mg/kg-day = milligrams per kilogram per day

RfC = Reference Concentration

RfD_d = Dermal Reference Dose;

RfD_o = Oral Reference Dose

RfD_i = Inhalation Reference Dose

Table C-35

Onsite Worker Scenario - Potential Excess Lifetime Cancer Risk

Surface Soil-Transformer Mounting

Fort Richardson - Operable Unit E

Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC (mg/kg)	ABS_d	ABS_{gi}	Ingestion CDI (mg/kg-day)	Ingestion ELCR	Dermal CDI (mg/kg-day)	Dermal ELCR	Inhalation CDI (mg/kg-day)	Inhalation ELCR	Total ELCR	% Contribution
1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	B2	1.50E+03	1.50E+03	1.50E+03	1.66E-04	3.00E-02	1.00E+00	3.48E-11	5.2E-08	6.89E-12	1.0E-08	5.35E-15	8.0E-12	6.3E-08	1
1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN	B2	1.50E+03	1.50E+03	1.50E+03	5.18E-04	3.00E-02	1.00E+00	1.09E-10	1.6E-07	2.15E-11	3.2E-08	1.67E-14	2.5E-11	2.0E-07	2
1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	B2	1.50E+03	1.50E+03	1.50E+03	1.96E-05	3.00E-02	1.00E+00	4.11E-12	6.2E-09	8.14E-13	1.2E-09	6.32E-16	9.5E-13	7.4E-09	0
1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	B2	1.50E+04	1.50E+04	1.50E+04	3.72E-05	3.00E-02	1.00E+00	7.80E-12	1.2E-07	1.54E-12	2.3E-08	1.20E-15	1.8E-11	1.4E-07	2
1,2,3,4,7,8-HEXACHLORODIBENZO-p-DIOXIN	B2	1.50E+04	1.50E+04	1.50E+04	2.60E-06	3.00E-02	1.00E+00	5.45E-13	8.2E-09	1.08E-13	1.6E-09	8.39E-17	1.3E-12	9.8E-09	0
1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	B2	1.50E+04	1.50E+04	1.50E+04	6.40E-06	3.00E-02	1.00E+00	1.34E-12	2.0E-08	2.66E-13	4.0E-09	2.06E-16	3.1E-12	2.4E-08	0
1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	B2	1.50E+04	1.50E+04	1.50E+04	1.17E-05	3.00E-02	1.00E+00	2.45E-12	3.7E-08	4.86E-13	7.3E-09	3.77E-16	5.7E-12	4.4E-08	1
1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	B2	1.50E+04	1.50E+04	1.50E+04	6.20E-06	3.00E-02	1.00E+00	1.30E-12	1.9E-08	2.57E-13	3.9E-09	2.00E-16	3.0E-12	2.3E-08	0
1,2,3,7,8-PENTACHLORODIBENZOFURAN	B2	7.50E+03	7.50E+03	7.50E+03	8.32E-05	3.00E-02	1.00E+00	1.74E-11	1.3E-07	3.45E-12	2.6E-08	2.68E-15	2.0E-11	1.6E-07	2
1,2,3,7,8-PENTACHLORODIBENZO-p-DIOXIN	B2	1.50E+05	1.50E+05	1.50E+05	6.40E-07	3.00E-02	1.00E+00	1.34E-13	2.0E-08	2.66E-14	4.0E-09	2.06E-17	3.1E-12	2.4E-08	0
2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	B2	1.50E+04	1.50E+04	1.50E+04	4.70E-06	3.00E-02	1.00E+00	9.85E-13	1.5E-08	1.95E-13	2.9E-09	1.52E-16	2.3E-12	1.8E-08	0
2,3,4,7,8-PENTACHLORODIBENZOFURAN	B2	7.50E+04	7.50E+04	7.50E+04	3.90E-06	3.00E-02	1.00E+00	8.18E-13	6.1E-08	1.62E-13	1.2E-08	1.26E-16	9.4E-12	7.3E-08	1
2,3,7,8-TETRACHLORODIBENZOFURAN	B2	1.50E+04	1.50E+04	1.50E+04	5.20E-06	3.00E-02	1.00E+00	1.09E-12	1.6E-08	2.16E-13	3.2E-09	1.68E-16	2.5E-12	2.0E-08	0
2,3,7,8-TETRACHLORODIBENZO-p-DIOXIN	B2	1.50E+05	1.50E+05	1.50E+05	2.60E-07	3.00E-02	1.00E+00	5.45E-14	8.2E-09	1.08E-14	1.6E-09	8.39E-18	1.3E-12	9.8E-09	0
OCTACHLORODIBENZOFURAN	--	1.50E+01	1.50E+01	1.50E+01	7.87E-04	3.00E-02	1.00E+00	1.65E-10	2.5E-09	3.27E-11	4.9E-10	2.54E-14	3.8E-13	3.0E-09	0
OCTACHLORODIBENZO-p-DIOXIN	A	1.50E+01	1.50E+01	1.50E+01	4.49E-03	3.00E-02	1.00E+00	9.41E-10	1.4E-08	1.86E-10	2.8E-09	1.45E-13	2.2E-12	1.7E-08	0
Total TCDD-Mammal	D	1.50E+05	1.50E+05	1.50E+05	1.68E-05	3.00E-02	1.00E+00	3.53E-12	5.3E-07	6.99E-13	1.0E-07	5.43E-16	8.1E-11	6.3E-07	7
PCB-1260 (AROCHLOR 1260)	B1	2.00E+00	2.00E+00	2.00E+00	9.83E+00	1.40E-01	1.00E+00	2.06E-06	**4.1E-06**	1.90E-06	**3.8E-06**	3.17E-10	6.3E-10	**7.9E-06**	93
Total Risk									**4.6E-06**		**3.9E-06**		7.2E-10		100
												Total Risk =	**8.6E-06**		

Note:

Cancer WOE Classifications:

Group A: Human carcinogen

Group B (B1, B2): Probable human carcinogen

Group C: Possible human carcinogen

Group D: Not classifiable

Group E: No evidence of carcinogenicity

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

ELCR = Excess Lifetime Cancer Risk

EPC = Exposure Point Concentration

mg/kg-day = milligrams per kilogram per day

SF_d = Dermal Slope Factor

SF_o = Oral Slope Factor

SF_i = Inhalation Slope Factor

WOE = Weight of Evidence

Table C-36
Onsite Worker Scenario - Potential Noncarcinogenic Risk
Surface Soil-Transformer Mounting
Fort Richardson- Operable Unit E

Chemical	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC (mg/kg)	ABS_d	ABS_{gi}	Ingestion CDI (mg/kg-day)	Ingestion HQ	Dermal CDI (mg/kg-day)	Dermal HQ	Inhalation CDI (mg/kg-day)	Inhalation HQ	Total HI	% Contribution
1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN				1.66E-04	3.00E-02	1.00E+00	9.75E-11		1.93E-11		1.50E-14			#DIV/0!
1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN				5.18E-04	3.00E-02	1.00E+00	3.04E-10		6.02E-11		4.68E-14			#DIV/0!
1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN				1.96E-05	3.00E-02	1.00E+00	1.15E-11		2.28E-12		1.77E-15			#DIV/0!
1,2,3,4,7,8-HEXACHLORODIBENZOFURAN				3.72E-05	3.00E-02	1.00E+00	2.18E-11		4.32E-12		3.36E-15			#DIV/0!
1,2,3,4,7,8-HEXACHLORODIBENZO-p-DIOXIN				2.60E-06	3.00E-02	1.00E+00	1.53E-12		3.02E-13		2.35E-16			#DIV/0!
1,2,3,6,7,8-HEXACHLORODIBENZOFURAN				6.40E-06	3.00E-02	1.00E+00	3.76E-12		7.44E-13		5.78E-16			#DIV/0!
1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN				1.17E-05	3.00E-02	1.00E+00	6.87E-12		1.36E-12		1.06E-15			#DIV/0!
1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN				6.20E-06	3.00E-02	1.00E+00	3.64E-12		7.21E-13		5.60E-16			#DIV/0!
1,2,3,7,8-PENTACHLORODIBENZOFURAN				8.32E-05	3.00E-02	1.00E+00	4.88E-11		9.67E-12		7.51E-15			#DIV/0!
1,2,3,7,8-PENTACHLORODIBENZO-p-DIOXIN				6.40E-07	3.00E-02	1.00E+00	3.76E-13		7.44E-14		5.78E-17			#DIV/0!
2,3,4,6,7,8-HEXACHLORODIBENZOFURAN				4.70E-06	3.00E-02	1.00E+00	2.76E-12		5.46E-13		4.25E-16			#DIV/0!
2,3,4,7,8-PENTACHLORODIBENZOFURAN				3.90E-06	3.00E-02	1.00E+00	2.29E-12		4.53E-13		3.52E-16			#DIV/0!
2,3,7,8-TETRACHLORODIBENZOFURAN				5.20E-06	3.00E-02	1.00E+00	3.05E-12		6.04E-13		4.70E-16			#DIV/0!
2,3,7,8-TETRACHLORODIBENZO-p-DIOXIN				2.60E-07	3.00E-02	1.00E+00	1.53E-13		3.02E-14		2.35E-17			#DIV/0!
OCTACHLORODIBENZOFURAN				7.87E-04	3.00E-02	1.00E+00	4.62E-10		9.15E-11		7.11E-14			#DIV/0!
OCTACHLORODIBENZO-p-DIOXIN				4.49E-03	3.00E-02	1.00E+00	2.64E-09		5.22E-10		4.06E-13			#DIV/0!
Total TCDD-Mammal				1.68E-05	3.00E-02	1.00E+00	9.88E-12		1.96E-12		1.52E-15			#DIV/0!
PCB-1260 (AROCHLOR 1260)				9.83E+00	1.40E-01	1.00E+00	5.77E-06		5.33E-06		8.87E-10			#DIV/0!
												Total HI =		#DIV/0!

Note:
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
EPC = Exposure Point Concentration
HI = Hazard Index
HQ = Hazard Quotient;
mg/kg-day = milligrams per kilogram per day
RfC = Reference Concentration
RfD_d = Dermal Reference Dose;
RfD_o = Oral Reference Dose
RfD_i = Inhalation Reference Dose

Table C-37
Onsite Trespasser Scenario - Potential Excess Lifetime Cancer Risk
Surface Soil - All Building 35-752 Areas
Fort Richardson - Operable Unit E

Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC (mg/kg)	ABS_d	ABS_{gi}	Ingestion CDI (mg/kg-day)	Ingestion ELCR	Dermal CDI (mg/kg-day)	Dermal ELCR	Inhalation CDI (mg/kg-day)	Inhalation ELCR	Total ELCR	% Contribution
1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	B2	1.50E+03	1.50E+03	1.50E+03	8.59E-05	3.00E-02	1.00E+00	1.21E-12	1.8E-09	1.45E-13	2.2E-10	1.83E-16	2.8E-13	2.0E-09	1
1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN	B2	1.50E+03	1.50E+03	1.50E+03	3.11E-04	3.00E-02	1.00E+00	4.38E-12	6.6E-09	5.24E-13	7.9E-10	6.64E-16	1.0E-12	7.4E-09	3
1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	B2	1.50E+03	1.50E+03	1.50E+03	1.28E-05	3.00E-02	1.00E+00	1.81E-13	2.7E-10	2.16E-14	3.2E-11	2.74E-17	4.1E-14	3.0E-10	0
1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	B2	1.50E+04	1.50E+04	1.50E+04	2.76E-05	3.00E-02	1.00E+00	3.88E-13	5.8E-09	4.65E-14	7.0E-10	5.88E-17	8.8E-13	6.5E-09	2
1,2,3,4,7,8-HEXACHLORODIBENZO-p-DIOXIN	B2	1.50E+04	1.50E+04	1.50E+04	2.10E-06	3.00E-02	1.00E+00	2.96E-14	4.4E-10	3.55E-15	5.3E-11	4.49E-18	6.7E-14	5.0E-10	0
1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	B2	1.50E+04	1.50E+04	1.50E+04	3.86E-06	3.00E-02	1.00E+00	5.44E-14	8.2E-10	6.51E-15	9.8E-11	8.24E-18	1.2E-13	9.1E-10	0
1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	B2	1.50E+04	1.50E+04	1.50E+04	7.05E-06	3.00E-02	1.00E+00	9.93E-14	1.5E-09	1.19E-14	1.8E-10	1.50E-17	2.3E-13	1.7E-09	1
1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	B2	1.50E+04	1.50E+04	1.50E+04	3.63E-06	3.00E-02	1.00E+00	5.11E-14	7.7E-10	6.12E-15	9.2E-11	7.75E-18	1.2E-13	8.6E-10	0
1,2,3,7,8-PENTACHLORODIBENZOFURAN	B2	7.50E+03	7.50E+03	7.50E+03	8.32E-05	3.00E-02	1.00E+00	1.17E-12	8.8E-09	1.40E-13	1.1E-09	1.78E-16	1.3E-12	9.8E-09	4
1,2,3,7,8-PENTACHLORODIBENZO-p-DIOXIN	B2	1.50E+05	1.50E+05	1.50E+05	6.40E-07	3.00E-02	1.00E+00	9.02E-15	1.4E-09	1.08E-15	1.6E-10	1.37E-18	2.0E-13	1.5E-09	1
2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	B2	1.50E+04	1.50E+04	1.50E+04	3.14E-06	3.00E-02	1.00E+00	4.42E-14	6.6E-10	5.29E-15	7.9E-11	6.70E-18	1.0E-13	7.4E-10	0
2,3,4,7,8-PENTACHLORODIBENZOFURAN	B2	7.50E+04	7.50E+04	7.50E+04	2.77E-06	3.00E-02	1.00E+00	3.91E-14	2.9E-09	4.68E-15	3.5E-10	5.92E-18	4.4E-13	3.3E-09	1
2,3,7,8-TETRACHLORODIBENZOFURAN	B2	1.50E+04	1.50E+04	1.50E+04	3.35E-06	3.00E-02	1.00E+00	4.72E-14	7.1E-10	5.65E-15	8.5E-11	7.16E-18	1.1E-13	7.9E-10	0
2,3,7,8-TETRACHLORODIBENZO-p-DIOXIN	B2	1.50E+05	1.50E+05	1.50E+05	3.49E-07	3.00E-02	1.00E+00	4.92E-15	7.4E-10	5.89E-16	8.8E-11	7.45E-19	1.1E-13	8.3E-10	0
OCTACHLORODIBENZOFURAN	B2	1.50E+01	1.50E+01	1.50E+01	4.74E-04	3.00E-02	1.00E+00	6.68E-12	1.0E-10	7.99E-13	1.2E-11	1.01E-15	1.5E-14	1.1E-10	0
OCTACHLORODIBENZO-p-DIOXIN	B2	1.50E+01	1.50E+01	1.50E+01	3.39E-03	3.00E-02	1.00E+00	4.78E-11	7.2E-10	5.72E-12	8.6E-11	7.24E-15	1.1E-13	8.0E-10	0
Total TCDD-Mammal	--	1.50E+05	1.50E+05	1.50E+05	9.32E-06	3.00E-02	1.00E+00	1.31E-13	2.0E-08	1.57E-14	2.4E-09	1.99E-17	3.0E-12	2.2E-08	8
BARIUM	D				1.10E+02		7.00E-02	1.55E-06				2.34E-10			
IRON	--				2.78E+04	0	1.00E+00	3.92E-04				5.93E-08			
LEAD	--				7.58E+01	0	1.00E+00	1.07E-06				1.62E-10			
ALDRIN	B2	1.70E+01	1.70E+01	1.72E+01	2.68E-03	1.00E-01	1.00E+00	3.77E-11	6.4E-10	1.50E-11	2.6E-10	5.71E-15	9.8E-14	9.0E-10	0
BETA BHC	C	1.80E+00	1.80E+00	1.80E+00	7.78E-03	4.00E-02	1.00E+00	1.10E-10	2.0E-10	1.75E-11	3.2E-11	1.66E-14	3.0E-14	2.3E-10	0
DIELDRIN	B2	1.60E+01	1.60E+01	1.61E+01	1.41E-02	1.00E-01	1.00E+00	1.98E-10	3.2E-09	7.90E-11	1.3E-09	3.00E-14	4.8E-13	4.4E-09	2
ENDRIN	D				1.18E-02	1.00E-01	1.00E+00	1.66E-10		6.64E-11		2.52E-14			
ENDRIN ALDEHYDE	D				6.17E-02	1.00E-01	1.00E+00	8.69E-10		3.47E-10		1.32E-13			
p,p'-DDD	B2	2.40E-01	2.40E-01		1.87E-01	3.00E-02	1.00E+00	2.63E-09	6.3E-10	3.15E-10	7.6E-11	3.98E-13		7.1E-10	0
p,p'-DDE	B2	3.40E-01	3.40E-01		1.47E-02	3.00E-02	1.00E+00	2.07E-10	7.0E-11	2.48E-11	8.4E-12	3.14E-14		7.9E-11	0
p,p'-DDT	B2	3.40E-01	3.40E-01	3.40E-01	1.00E-01	3.00E-02	1.00E+00	1.41E-09	4.8E-10	1.69E-10	5.8E-11	2.14E-13	7.3E-14	5.4E-10	0
PCB-1260 (Aroclor 1260)	B2	2.00E+00	2.00E+00	2.00E+00	4.50E+00	1.40E-01	1.00E+00	6.35E-08	1.3E-07	3.54E-08	7.1E-08	9.62E-12	1.9E-11	2.0E-07	70
2-METHYLNAPHTHALENE	--				9.46E-02	1.30E-01	1.00E+00	1.33E-09		6.91E-10		2.02E-13			
ACENAPHTHENE	D				9.46E-02	1.30E-01	1.00E+00	1.33E-09		6.91E-10		2.02E-13			
ACENAPHTHYLENE	--				9.40E-02	1.30E-01	1.00E+00	1.32E-09		6.87E-10		2.01E-13			
ANTHRACENE	D				2.78E-01	1.30E-01	1.00E+00	3.91E-09		2.03E-09		5.93E-13			
BENZO(a)ANTHRACENE	B2	7.30E-01	7.30E-01		2.67E-01	1.30E-01	1.00E+00	3.76E-09	2.7E-09	1.95E-09	1.4E-09	5.70E-13		4.2E-09	1
BENZO(a)PYRENE	B2	7.30E+00	7.30E+00		1.73E-01	1.30E-01	1.00E+00	2.44E-09	1.8E-08	1.27E-09	9.2E-09	3.70E-13		2.7E-08	10
BENZO(b)FLUORANTHENE	B2	7.30E-01	7.30E-01		3.59E-01	1.30E-01	1.00E+00	5.06E-09	3.7E-09	2.63E-09	1.9E-09	7.67E-13		5.6E-09	2
BENZO(g,h,i)PERYLENE	--			1.60E+01	1.10E-01	1.30E-01	1.00E+00	1.54E-09		8.00E-10		2.34E-13	3.7E-12	3.7E-12	0
BENZO(k)FLUORANTHENE	B2	7.30E-02	7.30E-02		3.17E-01	1.30E-01	1.00E+00	4.47E-09	3.3E-10	2.32E-09	1.7E-10	6.78E-13		5.0E-10	0
BENZYL BUTYL PHTHALATE	C				8.67E-02	1.00E-01	1.00E+00	1.22E-09		4.87E-10		1.85E-13			
bis(2-ETHYLHEXYL) PHTHALATE	--	1.40E-02	1.40E-02		4.53E+00	1.00E-01	1.00E+00	6.38E-08	8.9E-10	2.54E-08	3.6E-10	9.66E-12		1.2E-09	0
CHRYSENE	B2	7.30E-03	7.30E-03		5.63E-01	1.30E-01	1.00E+00	7.93E-09	5.8E-11	4.11E-09	3.0E-11	1.20E-12		8.8E-11	0
DIBENZ(a,h)ANTHRACENE	B2	7.30E+00	7.30E+00		8.62E-02	1.30E-01	1.00E+00	1.21E-09	8.9E-09	6.30E-10	4.6E-09	1.84E-13		1.3E-08	5
DIBENZOFURAN	D				9.59E-02		1.00E+00	1.35E-09				2.05E-13			
DI-n-BUTYL PHTHALATE	D				1.99E-01	1.00E-01	1.00E+00	2.80E-09		1.12E-09		4.25E-13			
FLUORANTHENE	D				1.67E+00	1.30E-01	1.00E+00	2.35E-08		1.22E-08		3.57E-12			
FLUORENE	D				8.88E-02	1.30E-01	1.00E+00	1.25E-09		6.49E-10		1.89E-13			
INDENO(1,2,3-c,d)PYRENE	B2	7.30E-01	7.30E-01		1.36E-01	1.30E-01	1.00E+00	1.92E-09	1.4E-09	9.95E-10	7.3E-10	2.91E-13		2.1E-09	1
PHENANTHRENE	D				8.66E-01	1.30E-01	1.00E+00	1.22E-08		6.33E-09		1.85E-12			
PYRENE	D				1.76E+00	1.30E-01	1.00E+00	2.48E-08		1.29E-08		3.76E-12			
1,1,1-TRICHLOROETHANE	D				1.96E-03		1.00E+00	2.77E-11				2.50E-09			
1,2,4-TRIMETHYLBENZENE	--				4.62E-03		1.00E+00	6.51E-11				6.62E-10			

Surface Soil - All Building 35-752 Areas
Fort Richardson - Operable Unit E

Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC (mg/kg)	ABS_d	ABS_{gi}	Ingestion CDI (mg/kg-day)	Ingestion ELCR	Dermal CDI (mg/kg-day)	Dermal ELCR	Inhalation CDI (mg/kg-day)	Inhalation ELCR	Total ELCR	% Contribution
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	--				4.76E-03		1.00E+00	6.71E-11				1.67E-09			
2-CHLOROTOLUENE	D				5.00E-03		1.00E+00	7.05E-11				2.50E-09			
ACETONE	D				9.39E-02		1.00E+00	1.32E-09				2.11E-08			
METHYL ETHYL KETONE (2-BUTANONE)	D				2.17E-02		1.00E+00	3.06E-10				3.15E-09			
METHYLENE CHLORIDE	B2	7.50E-03	7.50E-03	1.65E-03	9.95E-03		1.00E+00	1.40E-10	1.1E-12			1.12E-08	1.8E-11	2.0E-11	0
NAPHTHALENE	C				6.61E-03	1.30E-01	1.00E+00	9.31E-11		4.83E-11		4.30E-10			
n-PROPYLBENZENE	--				6.15E-02		1.00E+00	8.67E-10				1.53E-08			
P-CYMENE (p-ISOPROPYLTOLUENE)	D				3.72E-02		1.00E+00	5.24E-10				2.92E-08			
TOLUENE	D				2.49E-03		1.00E+00	3.51E-11				1.76E-09			
TRICHLOROETHYLENE (TCE)	B2	1.10E-02	1.10E-02	6.00E-03	9.78E-03		1.00E+00	1.38E-10	1.5E-12			8.45E-09	5.1E-11	5.2E-11	0
XYLENES, m & p	D				1.75E-03	1.00E-01	1.00E+00	2.47E-11		9.84E-12		8.08E-10			
XYLENES, TOTAL	D				3.03E-03	1.00E-01	1.00E+00	4.27E-11		1.70E-11		1.40E-09			
Total Risk									1.9E-07		9.3E-08		9.6E-11		100
												Total Risk =	2.8E-07		

Note:
Cancer WOE Classifications:
Group A: Human carcinogen
Group B (B1, B2): Probable human carcinogen
Group C: Possible human carcinogen
Group D: Not classifiable
Group E: No evidence of carcinogenicity
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
ELCR = Excess Lifetime Cancer Risk
EPC = Exposure Point Concentration
mg/kg-day = milligrams per kilogram per day
SF_d = Dermal Slope Factor
SF_o = Oral Slope Factor
SF_i = Inhalation Slope Factor
WOE = Weight of Evidence

Table C-38
Onsite Trespasser Scenario - Potential Noncarcinogenic Risk
Surface Soil - All Building 35-752 Areas
Fort Richardson- Operable Unit E

Chemical	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC (mg/kg)	ABS_d	ABS_{gi}	Ingestion CDI (mg/kg-day)	Ingestion HQ	Dermal CDI (mg/kg-day)	Dermal HQ	Inhalation CDI (mg/kg-day)	Inhalation HQ	Total HI	% Contribution
1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN				8.59E-05	3.00E-02	1.00E+00	9.41E-12		1.13E-12		1.43E-15			
1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN				3.11E-04	3.00E-02	1.00E+00	3.41E-11		4.08E-12		5.16E-15			
1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN				1.28E-05	3.00E-02	1.00E+00	1.41E-12		1.68E-13		2.13E-16			
1,2,3,4,7,8-HEXACHLORODIBENZOFURAN				2.76E-05	3.00E-02	1.00E+00	3.02E-12		3.61E-13		4.57E-16			
1,2,3,4,7,8-HEXACHLORODIBENZO-p-DIOXIN				2.10E-06	3.00E-02	1.00E+00	2.31E-13		2.76E-14		3.49E-17			
1,2,3,6,7,8-HEXACHLORODIBENZOFURAN				3.86E-06	3.00E-02	1.00E+00	4.23E-13		5.06E-14		6.41E-17			
1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN				7.05E-06	3.00E-02	1.00E+00	7.72E-13		9.24E-14		1.17E-16			
1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN				3.63E-06	3.00E-02	1.00E+00	3.98E-13		4.76E-14		6.02E-17			
1,2,3,7,8-PENTACHLORODIBENZOFURAN				8.32E-05	3.00E-02	1.00E+00	9.12E-12		1.09E-12		1.38E-15			
1,2,3,7,8-PENTACHLORODIBENZO-p-DIOXIN				6.40E-07	3.00E-02	1.00E+00	7.01E-14		8.40E-15		1.06E-17			
2,3,4,6,7,8-HEXACHLORODIBENZOFURAN				3.14E-06	3.00E-02	1.00E+00	3.44E-13		4.12E-14		5.21E-17			
2,3,4,7,8-PENTACHLORODIBENZOFURAN				2.77E-06	3.00E-02	1.00E+00	3.04E-13		3.64E-14		4.61E-17			
2,3,7,8-TETRACHLORODIBENZOFURAN				3.35E-06	3.00E-02	1.00E+00	3.67E-13		4.40E-14		5.57E-17			
2,3,7,8-TETRACHLORODIBENZO-p-DIOXIN				3.49E-07	3.00E-02	1.00E+00	3.82E-14		4.58E-15		5.80E-18			
OCTACHLORODIBENZOFURAN				4.74E-04	3.00E-02	1.00E+00	5.19E-11		6.22E-12		7.87E-15			
OCTACHLORODIBENZO-p-DIOXIN				3.39E-03	3.00E-02	1.00E+00	3.72E-10		4.45E-11		5.63E-14			
Total TCDD-Mammal				9.32E-06	3.00E-02	1.00E+00	1.02E-12		1.22E-13		1.55E-16			
BARIUM	7.00E-02	4.90E-03	1.43E-04	1.10E+02		7.00E-02	1.20E-05	0.00			1.82E-09	0.00	0.00	2
IRON	3.00E-01	3.00E-01		2.78E+04	0	1.00E+00	3.05E-03	0.01			4.62E-07		0.01	96
LEAD				7.58E+01	0	1.00E+00	8.31E-06				1.26E-09			
ALDRIN	3.00E-05	3.00E-05		2.68E-03	1.00E-01	1.00E+00	2.93E-10	0.00	1.17E-10	0.0000	4.44E-14		0.00	0
BETA BHC	2.00E-04	2.00E-04		7.78E-03	4.00E-02	1.00E+00	8.53E-10	0.00	1.36E-10	0.0000	1.29E-13		0.00	0
DIELDRIN	5.00E-05	5.00E-05		1.41E-02	1.00E-01	1.00E+00	1.54E-09	0.00	6.14E-10	0.0000	2.33E-13		0.00	0
ENDRIN	3.00E-04	3.00E-04		1.18E-02	1.00E-01	1.00E+00	1.29E-09	0.00	5.16E-10	0.0000	1.96E-13		0.00	0
ENDRIN ALDEHYDE	3.00E-04	3.00E-04		6.17E-02	1.00E-01	1.00E+00	6.76E-09	0.00	2.70E-09	0.0000	1.02E-12		0.00	0
p,p'-DDD				1.87E-01	3.00E-02	1.00E+00	2.05E-08		2.45E-09		3.10E-12			
p,p'-DDE				1.47E-02	3.00E-02	1.00E+00	1.61E-09		1.93E-10		2.44E-13			
p,p'-DDT	5.00E-04	5.00E-04		1.00E-01	3.00E-02	1.00E+00	1.10E-08	0.00	1.32E-09	0.0000	1.67E-12		0.00	0
PCB-1260 (Aroclor 1260)				4.50E+00	1.40E-01	1.00E+00	4.94E-07		2.76E-07		7.48E-11			
2-METHYLNAPHTHALENE	9.00E-03	9.00E-03		9.46E-02	1.30E-01	1.00E+00	1.04E-08	0.00	5.38E-09	0.0000	1.57E-12		0.00	0
ACENAPHTHENE	6.00E-02	6.00E-02		9.46E-02	1.30E-01	1.00E+00	1.04E-08	0.00	5.38E-09	0.0000	1.57E-12		0.00	0
ACENAPHTHYLENE	6.00E-02	6.00E-02		9.40E-02	1.30E-01	1.00E+00	1.03E-08	0.00	5.34E-09	0.0000	1.56E-12		0.00	0
ANTHRACENE	3.00E-01	3.00E-01		2.78E-01	1.30E-01	1.00E+00	3.04E-08	0.00	1.58E-08	0.0000	4.61E-12		0.00	0
BENZO(a)ANTHRACENE				2.67E-01	1.30E-01	1.00E+00	2.93E-08		1.52E-08		4.44E-12			
BENZO(a)PYRENE				1.73E-01	1.30E-01	1.00E+00	1.90E-08		9.85E-09		2.88E-12			
BENZO(b)FLUORANTHENE				3.59E-01	1.30E-01	1.00E+00	3.94E-08		2.04E-08		5.96E-12			
BENZO(g,h,i)PERYLENE				1.10E-01	1.30E-01	1.00E+00	1.20E-08		6.22E-09		1.82E-12			
BENZO(k)FLUORANTHENE				3.17E-01	1.30E-01	1.00E+00	3.48E-08		1.80E-08		5.27E-12			
BENZYL BUTYL PHTHALATE	2.00E-01	2.00E-01		8.67E-02	1.00E-01	1.00E+00	9.50E-09	0.00	3.79E-09	0.0000	1.44E-12		0.00	0
bis(2-ETHYLHEXYL) PHTHALATE	2.00E-02	2.00E-02		4.53E+00	1.00E-01	1.00E+00	4.96E-07	0.00	1.98E-07	0.0000	7.52E-11		0.00	0
CHRYSENE				5.63E-01	1.30E-01	1.00E+00	6.17E-08		3.20E-08		9.34E-12			
DIBENZ(a,h)ANTHRACENE				8.62E-02	1.30E-01	1.00E+00	9.45E-09		4.90E-09		1.43E-12			
DIBENZOFURAN	4.00E-03	4.00E-03		9.59E-02		1.00E+00	1.05E-08	0.00			1.59E-12		0.00	0
DI-n-BUTYL PHTHALATE	1.00E-01	1.00E-01		1.99E-01	1.00E-01	1.00E+00	2.18E-08	0.00	8.70E-09	0.0000	3.30E-12		0.00	0
FLUORANTHENE	4.00E-02	4.00E-02		1.67E+00	1.30E-01	1.00E+00	1.83E-07	0.00	9.50E-08	0.0000	2.77E-11		0.00	0
FLUORENE	4.00E-02	4.00E-02		8.88E-02	1.30E-01	1.00E+00	9.73E-09	0.00	5.05E-09	0.0000	1.47E-12		0.00	0
INDENO(1,2,3-c,d)PYRENE				1.36E-01	1.30E-01	1.00E+00	1.49E-08		7.74E-09		2.26E-12			
PHENANTHRENE	3.00E-01	3.00E-01		8.66E-01	1.30E-01	1.00E+00	9.49E-08	0.00	4.92E-08	0.0000	1.44E-11		0.00	0
PYRENE	3.00E-02	3.00E-02		1.76E+00	1.30E-01	1.00E+00	1.93E-07	0.00	1.00E-07	0.0000	2.93E-11		0.00	0
1,1,1-TRICHLOROETHANE	2.80E-01	2.80E-01	6.30E-01	1.96E-03		1.00E+00	2.15E-10	0.00			1.95E-08	0.00	0.00	0
1,2,4-TRIMETHYLBENZENE	5.00E-02	5.00E-02	1.70E-03	4.62E-03		1.00E+00	5.06E-10	0.00			5.15E-09	0.00	0.00	0

Surface Soil - All Building 35-752 Areas
Fort Richardson- Operable Unit E

Chemical	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC (mg/kg)	ABS_d	ABS_{gi}	Ingestion CDI (mg/kg-day)	Ingestion HQ	Dermal CDI (mg/kg-day)	Dermal HQ	Inhalation CDI (mg/kg-day)	Inhalation HQ	Total HI	% Contribution
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	5.00E-02	5.00E-02	1.70E-03	4.76E-03		1.00E+00	5.22E-10	0.00			1.30E-08	0.00	0.00	0
2-CHLOROTOLUENE	2.00E-02	2.00E-02	2.00E-02	5.00E-03		1.00E+00	5.48E-10	0.00			1.95E-08	0.00	0.00	0
ACETONE	1.00E-01	1.00E-01	1.00E-01	9.39E-02		1.00E+00	1.03E-08	0.00			1.64E-07	0.00	0.00	0
METHYL ETHYL KETONE (2-BUTANONE)	6.00E-01	6.00E-01	2.86E-01	2.17E-02		1.00E+00	2.38E-09	0.00			2.45E-08	0.00	0.00	0
METHYLENE CHLORIDE	6.00E-02	6.00E-02	8.57E-01	9.95E-03		1.00E+00	1.09E-09	0.00			8.75E-08	0.00	0.00	0
NAPHTHALENE	2.00E-02	2.00E-02	8.57E-04	6.61E-03	1.30E-01	1.00E+00	7.24E-10	0.00	3.76E-10	0.0000	3.35E-09	0.00	0.00	0
n-PROPYLBENZENE	4.00E-02	4.00E-02	4.00E-02	6.15E-02		1.00E+00	6.74E-09	0.00			1.19E-07	0.00	0.00	0
P-CYMENE (p-ISOPROPYLTOLUENE)	1.00E-01	1.00E-01	1.10E-01	3.72E-02		1.00E+00	4.07E-09	0.00			2.27E-07	0.00	0.00	0
TOLUENE	2.00E-01	2.00E-01	1.10E-01	2.49E-03		1.00E+00	2.73E-10	0.00			1.37E-08	0.00	0.00	0
TRICHLOROETHYLENE (TCE)	6.00E-03	6.00E-03	6.00E-03	9.78E-03		1.00E+00	1.07E-09	0.00			6.57E-08	0.00	0.00	0
XYLENES, m & p	2.00E-01	2.00E-01	2.90E-02	1.75E-03	1.00E-01	1.00E+00	1.92E-10	0.00	7.65E-11	0.0000	6.29E-09	0.00	0.00	0
XYLENES, TOTAL	2.00E-01	2.00E-01	2.90E-02	3.03E-03	1.00E-01	1.00E+00	3.32E-10	0.00	1.32E-10	0.0000	1.09E-08	0.00	0.00	0
								0.010		0.00005		0.0000		100
											Total HI =	0.011		

Note:
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
EPC = Exposure Point Concentration
HI = Hazard Index
HQ = Hazard Quotient;
mg/kg-day = milligrams per kilogram per day
RfC = Reference Concentration
RfD_d = Dermal Reference Dose;
RfD_o = Oral Reference Dose
RfD_i = Inhalation Reference Dose

Table C-39

Onsite Trespasser Scenario - Potential Excess Lifetime Cancer Risk

All Surface Soil-Building 35-752

Fort Richardson - Operable Unit E

Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC (mg/kg)	ABS_d	ABS_{gi}	Ingestion CDI (mg/kg-day)	Ingestion ELCR	Dermal CDI (mg/kg-day)	Dermal ELCR	Inhalation CDI (mg/kg-day)	Inhalation ELCR	Total ELCR	% Contribution
DIELDRIN	B2	1.60E+01	1.60E+01	1.61E+01	8.48E-02	1.00E-01	1.00E+00	1.19E-09	2E-08	4.77E-10	8E-09	1.81E-13	3E-12	3E-08	6
p,p'-DDE	B2	3.40E-01	3.40E-01		6.05E-02	3.00E-02	1.00E+00	8.52E-10	3E-10	1.02E-10	3E-11	1.29E-13		3E-10	0
PCB-1260 (AROCHLOR 1260)	B2	2.00E+00	2.00E+00	2.00E+00	9.20E+00	1.40E-01	1.00E+00	1.30E-07	3E-07	7.24E-08	1E-07	1.96E-11	4E-11	4E-07	94
CHRYSENE	B2	7.30E-03	7.30E-03		1.00E-01	1.30E-01	1.00E+00	1.41E-09	1E-11	7.31E-10	5E-12	2.13E-13		2E-11	0
FLUORANTHENE	D				1.00E-01	1.30E-01	1.00E+00	1.41E-09		7.31E-10		2.13E-13			
PYRENE	D				1.00E-01	1.30E-01	1.00E+00	1.41E-09		7.31E-10		2.13E-13			
1,1,1-TRICHLOROETHANE	D				2.62E-03		1.00E+00	3.69E-11				3.34E-09			
Total Risk									2.8E-07		1.5E-07		4.2E-11		100
													Total Risk = 4.3E-07		

Note:

Cancer WOE Classifications:

Group A: Human carcinogen

Group B (B1, B2): Probable human carcinogen

Group C: Possible human carcinogen

Group D: Not classifiable

Group E: No evidence of carcinogenicity

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

ELCR = Excess Lifetime Cancer Risk

EPC = Exposure Point Concentration

mg/kg-day = milligrams per kilogram per day

SF_d = Dermal Slope Factor

SF_o = Oral Slope Factor

SF_i = Inhalation Slope Factor

WOE = Weight of Evidence

Table C-40

Onsite Trespasser Scenario - Potential Noncarcinogenic Risk

All Surface Soil-Building 35-752

Fort Richardson- Operable Unit E

Chemical	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC (mg/kg)	ABS_d	ABS_{gi}	Ingestion CDI (mg/kg-day)	Ingestion HQ	Dermal CDI (mg/kg-day)	Dermal HQ	Inhalation CDI (mg/kg-day)	Inhalation HQ	Total HI	% Contribution
DIELDRIN	5.00E-05	5.00E-05		8.48E-02	1.00E-01	1.00E+00	9.29E-09	0.00	3.71E-09	0.0001	1.41E-12		0.00026	100
p,p'-DDE				6.05E-02	3.00E-02	1.00E+00	6.63E-09		7.93E-10		1.00E-12			
PCB-1260 (AROCHLOR 1260)				9.20E+00	1.40E-01	1.00E+00	1.01E-06		5.63E-07		1.53E-10			
CHRYSENE				1.00E-01	1.30E-01	1.00E+00	1.10E-08		5.68E-09		1.66E-12			
FLUORANTHENE	4.00E-02	4.00E-02		1.00E-01	1.30E-01	1.00E+00	1.10E-08	0.00	5.68E-09	0.0000	1.66E-12		0.00000042	0
PYRENE	3.00E-02	3.00E-02		1.00E-01	1.30E-01	1.00E+00	1.10E-08	0.00	5.68E-09	0.0000	1.66E-12		0.00000055	0
1,1,1-TRICHLOROETHANE	2.80E-01	2.80E-01	6.30E-01	2.62E-03		1.00E+00	2.87E-10	0.00			2.60E-08	0.00	0.00000004	0
								0.00019		0.000074		0.000000041		100
											Total HI =	0.00026		

Note:

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

EPC = Exposure Point Concentration

HI = Hazard Index

HQ = Hazard Quotient;

mg/kg-day = milligrams per kilogram per day

RfC = Reference Concentration

RfD_d = Dermal Reference Dose;

RfD_o = Oral Reference Dose

RfD_i = Inhalation Reference Dose

Table C-41

Onsite Trespasser Scenario - Potential Excess Lifetime Cancer Risk

All Surface Soil-Burn Pit

Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation			
Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC (mg/kg)	ABS_d	ABS_{gi}	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	Total ELCR	% Contribution
1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	B2	1.50E+03	1.50E+03	1.50E+03	1.20E-06	3.00E-02	1.00E+00	1.69E-14	3E-11	2.02E-15	3E-12	2.56E-18	4E-15	3E-11	1
1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN	B2	1.50E+03	1.50E+03	1.50E+03	1.10E-06	3.00E-02	1.00E+00	1.55E-14	2E-11	1.86E-15	3E-12	2.35E-18	4E-15	3E-11	1
1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	B2	1.50E+03	1.50E+03	1.50E+03	8.20E-07	3.00E-02	1.00E+00	1.16E-14	2E-11	1.38E-15	2E-12	1.75E-18	3E-15	2E-11	0
1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	B2	1.50E+04	1.50E+04	1.50E+04	1.30E-06	3.00E-02	1.00E+00	1.83E-14	3E-10	2.19E-15	3E-11	2.78E-18	4E-14	3E-10	7
1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	B2	1.50E+04	1.50E+04	1.50E+04	2.60E-07	3.00E-02	1.00E+00	3.66E-15	5E-11	4.39E-16	7E-12	5.55E-19	8E-15	6E-11	1
OCTACHLORODIBENZOFURAN	B2	1.50E+01	1.50E+01	1.50E+01	4.80E-06	3.00E-02	1.00E+00	6.76E-14	1E-12	8.10E-15	1E-13	1.02E-17	2E-16	1E-12	0
OCTACHLORODIBENZO-p-DIOXIN	B2	1.50E+01	1.50E+01	1.50E+01	1.09E-05	3.00E-02	1.00E+00	1.54E-13	2E-12	1.84E-14	3E-13	2.33E-17	3E-16	3E-12	0
Total TCDD-Mammal	--	1.50E+05	1.50E+05	1.50E+05	1.89E-07	3.00E-02	1.00E+00	2.66E-15	4E-10	3.19E-16	5E-11	4.03E-19	6E-14	4E-10	11
PCB-1260 (AROCHLOR 1260)	B2	2.00E+00	2.00E+00	2.00E+00	8.10E-02	1.40E-01	1.00E+00	1.14E-09	2E-09	6.38E-10	1E-09	1.73E-13	3E-13	4E-09	84
BENZYL BUTYL PHTHALATE	C				2.00E-02	1.00E-01	1.00E+00	2.82E-10		1.12E-10		4.27E-14			
bis(2-ETHYLHEXYL) PHTHALATE	--	1.40E-02	1.40E-02		7.60E-02	1.00E-01	1.00E+00	1.07E-09	1E-11	4.27E-10	6E-12	1.62E-13		2E-11	0
DI-n-BUTYL PHTHALATE	D				8.00E-01	1.00E-01	1.00E+00	1.13E-08		4.50E-09		1.71E-12			
METHYL ETHYL KETONE (2-BUTANONE)	D				4.60E-02		1.00E+00	6.48E-10				6.67E-09			
METHYLENE CHLORIDE	B2	7.50E-03	7.50E-03	1.65E-03	3.30E-02		1.00E+00	4.65E-10	3E-12			3.73E-08	6E-11	6E-11	2
P-CYMENE (p-ISOPROPYLTOLUENE)	D				4.70E-03		1.00E+00	6.62E-11				3.69E-09			
TRICHLOROETHYLENE (TCE)	B2	1.10E-02	1.10E-02	6.00E-03	3.00E-02		1.00E+00	4.23E-10	5E-12			2.59E-08	2E-10	2E-10	4
XYLENES, m & p	D				4.80E-03	1.00E-01	1.00E+00	6.76E-11		2.70E-11		2.22E-09			
Total Risk									2.7E-09		1.3E-09		2.2E-10		100
												Total Risk =	4.3E-09		

Note:
Cancer WOE Classifications:
Group A: Human carcinogen
Group B (B1, B2): Probable human carcinogen
Group C: Possible human carcinogen
Group D: Not classifiable
Group E: No evidence of carcinogenicity
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
ELCR = Excess Lifetime Cancer Risk
EPC = Exposure Point Concentration
mg/kg-day = milligrams per kilogram per day
SF_d = Dermal Slope Factor
SF_o = Oral Slope Factor
SF_i = Inhalation Slope Factor
WOE = Weight of Evidence

Table C-42

Onsite Trespasser Scenario - Potential Noncarcinogenic Risk

All Surface Soil-Burn Pit

Fort Richardson- Operable Unit E

Chemical	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC (mg/kg)	ABS_d	ABS_{gi}	Ingestion CDI (mg/kg-day)	Ingestion HQ	Dermal CDI (mg/kg-day)	Dermal HQ	Inhalation CDI (mg/kg-day)	Inhalation HQ	Total HI	% Contribution
1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN				1.20E-06	3.00E-02	1.00E+00	1.32E-13		1.57E-14		1.99E-17			
1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN				1.10E-06	3.00E-02	1.00E+00	1.21E-13		1.44E-14		1.83E-17			
1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN				8.20E-07	3.00E-02	1.00E+00	8.99E-14		1.08E-14		1.36E-17			
1,2,3,4,7,8-HEXACHLORODIBENZOFURAN				1.30E-06	3.00E-02	1.00E+00	1.42E-13		1.71E-14		2.16E-17			
1,2,3,6,7,8-HEXACHLORODIBENZOFURAN				2.60E-07	3.00E-02	1.00E+00	2.85E-14		3.41E-15		4.32E-18			
OCTACHLORODIBENZOFURAN				4.80E-06	3.00E-02	1.00E+00	5.26E-13		6.30E-14		7.97E-17			
OCTACHLORODIBENZO-p-DIOXIN				1.09E-05	3.00E-02	1.00E+00	1.19E-12		1.43E-13		1.81E-16			
Total TCDD-Mammal				1.89E-07	3.00E-02	1.00E+00	2.07E-14		2.48E-15		3.14E-18			
PCB-1260 (AROCHLOR 1260)				8.10E-02	1.40E-01	1.00E+00	8.88E-09		4.96E-09		1.34E-12			
BENZYL BUTYL PHTHALATE	2.00E-01	2.00E-01		2.00E-02	1.00E-01	1.00E+00	2.19E-09	0.00	8.75E-10	0.0000	3.32E-13		0.00000002	0
bis(2-ETHYLHEXYL) PHTHALATE	2.00E-02	2.00E-02		7.60E-02	1.00E-01	1.00E+00	8.33E-09	0.00	3.32E-09	0.0000	1.26E-12		0.00000058	2
DI-n-BUTYL PHTHALATE	1.00E-01	1.00E-01		8.00E-01	1.00E-01	1.00E+00	8.77E-08	0.00	3.50E-08	0.0000	1.33E-11		0.0000012	3
METHYL ETHYL KETONE (2-BUTANONE)	6.00E-01	6.00E-01	2.86E-01	4.60E-02		1.00E+00	5.04E-09	0.00			5.19E-08	0.00	0.00000019	1
METHYLENE CHLORIDE	6.00E-02	6.00E-02	8.57E-01	3.30E-02		1.00E+00	3.62E-09	0.00			2.90E-07	0.00	0.00000040	1
P-CYMENE (p-ISOPROPYLTOLUENE)	1.00E-01	1.00E-01	1.10E-01	4.70E-03		1.00E+00	5.15E-10	0.00			2.87E-08	0.00	0.0000003	1
TRICHLOROETHYLENE (TCE)	6.00E-03	6.00E-03	6.00E-03	3.00E-02		1.00E+00	3.29E-09	0.00			2.02E-07	0.00	0.000034	91
XYLENES, m & p	2.00E-01	2.00E-01	2.90E-02	4.80E-03	1.00E-01	1.00E+00	5.26E-10	0.00	2.10E-10	0.0000	1.72E-08	0.00	0.00000060	2
								0.0000019		0.00000052		0.000035		100
											Total HI =	0.000037		

Note:

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

EPC = Exposure Point Concentration

HI = Hazard Index

HQ = Hazard Quotient;

mg/kg-day = milligrams per kilogram per day

RfC = Reference Concentration

RfD_d = Dermal Reference Dose;

RfD_o = Oral Reference Dose

RfD_i = Inhalation Reference Dose

Table C-43
Onsite Trespasser Scenario - Potential Excess Lifetime Cancer Risk
All Surface Soil-Cooling Pond
Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation			%
Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC (mg/kg)	ABS_d	ABS_{gi}	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	Total ELCR	Contribution
BARIUM	D				9.38E+01		7.00E-02	1.32E-06				2.00E-10			
LEAD	--				1.17E+02	0	1.00E+00	1.65E-06				2.51E-10			
ALDRIN	B2	1.70E+01	1.70E+01	1.72E+01	1.83E-03	1.00E-01	1.00E+00	2.57E-11	4E-10	1.03E-11	2E-10	3.90E-15	7E-14	6E-10	0
BETA BHC	C	1.80E+00	1.80E+00	1.80E+00	3.19E-03	4.00E-02	1.00E+00	4.50E-11	8E-11	7.18E-12	1E-11	6.82E-15	1E-14	9E-11	0
DIELDRIN	B2	1.60E+01	1.60E+01	1.61E+01	5.63E-03	1.00E-01	1.00E+00	7.93E-11	1E-09	3.16E-11	5E-10	1.20E-14	2E-13	2E-09	1
ENDRIN	D				3.40E-02	1.00E-01	1.00E+00	4.79E-10		1.91E-10		7.26E-14			
ENDRIN ALDEHYDE	D				1.92E-03	1.00E-01	1.00E+00	2.71E-11		1.08E-11		4.11E-15			
p,p'-DDD	B2	2.40E-01	2.40E-01		3.59E-01	3.00E-02	1.00E+00	5.05E-09	1E-09	6.05E-10	1E-10	7.65E-13		1E-09	1
p,p'-DDE	B2	3.40E-01	3.40E-01		1.69E-02	3.00E-02	1.00E+00	2.39E-10	8E-11	2.86E-11	1E-11	3.61E-14		9E-11	0
p,p'-DDT	B2	3.40E-01	3.40E-01	3.40E-01	1.80E-01	3.00E-02	1.00E+00	2.54E-09	9E-10	3.04E-10	1E-10	3.84E-13	1E-13	1E-09	0
PCB-1260 (AROCHLOR 1260)	B2	2.00E+00	2.00E+00	2.00E+00	2.09E+00	1.40E-01	1.00E+00	2.94E-08	6E-08	1.64E-08	3E-08	4.45E-12	9E-12	9E-08	47
2-METHYLNAPHTHALENE	--				1.17E-01	1.30E-01	1.00E+00	1.65E-09		8.54E-10		2.49E-13			
ACENAPHTHENE	D				1.17E-01	1.30E-01	1.00E+00	1.65E-09		8.53E-10		2.49E-13			
ACENAPHTHYLENE	--				1.19E-01	1.30E-01	1.00E+00	1.68E-09		8.72E-10		2.55E-13			
ANTHRACENE	D				8.69E-01	1.30E-01	1.00E+00	1.22E-08		6.35E-09		1.86E-12			
BENZO(a)ANTHRACENE	B2	7.30E-01	7.30E-01		6.25E-01	1.30E-01	1.00E+00	8.81E-09	6E-09	4.57E-09	3E-09	1.33E-12		1E-08	5
BENZO(a)PYRENE	B2	7.30E+00	7.30E+00		3.49E-01	1.30E-01	1.00E+00	4.91E-09	4E-08	2.55E-09	2E-08	7.45E-13		5E-08	28
BENZO(b)FLUORANTHENE	B2	7.30E-01	7.30E-01		7.35E-01	1.30E-01	1.00E+00	1.04E-08	8E-09	5.37E-09	4E-09	1.57E-12		1E-08	6
BENZO(g,h,i)PERYLENE	--			1.60E+01	1.63E-01	1.30E-01	1.00E+00	2.30E-09		1.19E-09		3.48E-13	6E-12	6E-12	0
BENZO(k)FLUORANTHENE	B2	7.30E-02	7.30E-02		7.26E-01	1.30E-01	1.00E+00	1.02E-08	7E-10	5.31E-09	4E-10	1.55E-12		1E-09	1
bis(2-ETHYLHEXYL) PHTHALATE	--	1.40E-02	1.40E-02		7.00E+00	1.00E-01	1.00E+00	9.86E-08	1E-09	3.94E-08	6E-10	1.49E-11		2E-09	1
CHRYSENE	B2	7.30E-03	7.30E-03		1.43E+00	1.30E-01	1.00E+00	2.02E-08	1E-10	1.05E-08	8E-11	3.06E-12		2E-10	0
DIBENZ(a,h)ANTHRACENE	B2	7.30E+00	7.30E+00		1.08E-01	1.30E-01	1.00E+00	1.53E-09	1E-08	7.93E-10	6E-09	2.32E-13		2E-08	9
DIBENZOFURAN	D				1.21E-01		1.00E+00	1.71E-09				2.58E-13			
FLUORANTHENE	D				3.66E+00	1.30E-01	1.00E+00	5.16E-08		2.68E-08		7.82E-12			
FLUORENE	D				1.05E-01	1.30E-01	1.00E+00	1.48E-09		7.68E-10		2.24E-13			
INDENO(1,2,3-c,d)PYRENE	B2	7.30E-01	7.30E-01		2.63E-01	1.30E-01	1.00E+00	3.70E-09	3E-09	1.92E-09	1E-09	5.61E-13		4E-09	2
PHENANTHRENE	D				1.98E+00	1.30E-01	1.00E+00	2.79E-08		1.44E-08		4.22E-12			
PYRENE	D				4.49E+00	1.30E-01	1.00E+00	6.32E-08		3.28E-08		9.58E-12			
1,2,4-TRIMETHYLBENZENE	--				9.70E-04		1.00E+00	1.37E-11				1.39E-10			
1,3,5-TRIMETHYLBENZENE (MESITYLENE	--				2.13E-03		1.00E+00	3.01E-11				7.48E-10			
2-CHLOROTOLUENE	D				1.00E-02		1.00E+00	1.41E-10				5.00E-09			
ACETONE	D				1.67E-01		1.00E+00	2.35E-09				3.74E-08			
METHYL ETHYL KETONE (2-BUTANONE)	D				4.14E-02		1.00E+00	5.83E-10				6.00E-09			
NAPHTHALENE	C				3.05E-02	1.30E-01	1.00E+00	4.30E-10		2.23E-10		1.99E-09			
n-PROPYLBENZENE	--				1.80E-01		1.00E+00	2.54E-09				4.47E-08			
P-CYMENE (p-ISOPROPYLTOLUENE)	D				1.30E-01		1.00E+00	1.83E-09				1.02E-07			
Total Risk									1.3E-07		6.8E-08		1.5E-11		100
													Total Risk =	2.0E-07	

Note:
Cancer WOE Classifications:
Group A: Human carcinogen
Group B (B1, B2): Probable human carcinogen
Group C: Possible human carcinogen
Group D: Not classifiable
Group E: No evidence of carcinogenicity
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
ELCR = Excess Lifetime Cancer Risk
EPC = Exposure Point Concentration
mg/kg-day = milligrams per kilogram per day
SF_d = Dermal Slope Factor
SF_o = Oral Slope Factor
SF_i = Inhalation Slope Factor
WOE = Weight of Evidence

Table C-44
Onsite Trespasser Scenario - Potential Noncarcinogenic Risk
All Surface Soil-Cooling Pond
Fort Richardson- Operable Unit E

Chemical	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC (mg/kg)	ABS_d	ABS_{gi}	Ingestion CDI (mg/kg-day)	Ingestion HQ	Dermal CDI (mg/kg-day)	Dermal HQ	Inhalation CDI (mg/kg-day)	Inhalation HQ	Total HI	% Contribution
BARIUM	7.00E-02	4.90E-03	1.43E-04	9.38E+01		7.00E-02	1.03E-05	0.00			1.56E-09	0.00	0.0002	40
LEAD				1.17E+02	0	1.00E+00	1.29E-05				1.95E-09			
ALDRIN	3.00E-05	3.00E-05		1.83E-03	1.00E-01	1.00E+00	2.00E-10	0.00	7.99E-11	0.0000	3.03E-14		0.0000	2
BETA BHC	2.00E-04	2.00E-04		3.19E-03	4.00E-02	1.00E+00	3.50E-10	0.00	5.59E-11	0.0000	5.30E-14		0.0000	1
DIELDRIN	5.00E-05	5.00E-05		5.63E-03	1.00E-01	1.00E+00	6.17E-10	0.00	2.46E-10	0.0000	9.34E-14		0.0000	4
ENDRIN	3.00E-04	3.00E-04		3.40E-02	1.00E-01	1.00E+00	3.73E-09	0.00	1.49E-09	0.0000	5.65E-13		0.0000	4
ENDRIN ALDEHYDE	3.00E-04	3.00E-04		1.92E-03	1.00E-01	1.00E+00	2.11E-10	0.00	8.41E-11	0.0000	3.19E-14		0.0000	0
p,p'-DDD				3.59E-01	3.00E-02	1.00E+00	3.93E-08		4.70E-09		5.95E-12			
p,p'-DDE				1.69E-02	3.00E-02	1.00E+00	1.86E-09		2.22E-10		2.81E-13			
p,p'-DDT	5.00E-04	5.00E-04		1.80E-01	3.00E-02	1.00E+00	1.97E-08	0.00	2.36E-09	0.0000	2.99E-12		0.0000	11
PCB-1260 (AROCHLOR 1260)				2.09E+00	1.40E-01	1.00E+00	2.29E-07		1.28E-07		3.46E-11			
2-METHYLNAPHTHALENE	9.00E-03	9.00E-03		1.17E-01	1.30E-01	1.00E+00	1.28E-08	0.00	6.64E-09	0.0000	1.94E-12		0.0000	1
ACENAPHTHENE	6.00E-02	6.00E-02		1.17E-01	1.30E-01	1.00E+00	1.28E-08	0.00	6.64E-09	0.0000	1.94E-12		0.0000	0
ACENAPHTHYLENE	6.00E-02	6.00E-02		1.19E-01	1.30E-01	1.00E+00	1.31E-08	0.00	6.78E-09	0.0000	1.98E-12		0.0000	0
ANTHRACENE	3.00E-01	3.00E-01		8.69E-01	1.30E-01	1.00E+00	9.52E-08	0.00	4.94E-08	0.0000	1.44E-11		0.0000	0
BENZO(a)ANTHRACENE				6.25E-01	1.30E-01	1.00E+00	6.85E-08		3.55E-08		1.04E-11			
BENZO(a)PYRENE				3.49E-01	1.30E-01	1.00E+00	3.82E-08		1.98E-08		5.79E-12			
BENZO(b)FLUORANTHENE				7.35E-01	1.30E-01	1.00E+00	8.05E-08		4.18E-08		1.22E-11			
BENZO(g,h,i)PERYLENE				1.63E-01	1.30E-01	1.00E+00	1.79E-08		9.27E-09		2.71E-12			
BENZO(k)FLUORANTHENE				7.26E-01	1.30E-01	1.00E+00	7.96E-08		4.13E-08		1.21E-11			
bis(2-ETHYLHEXYL) PHTHALATE	2.00E-02	2.00E-02		7.00E+00	1.00E-01	1.00E+00	7.67E-07	0.00	3.06E-07	0.0000	1.16E-10		0.0001	14
CHRYSENE				1.43E+00	1.30E-01	1.00E+00	1.57E-07		8.14E-08		2.38E-11			
DIBENZ(a,h)ANTHRACENE				1.08E-01	1.30E-01	1.00E+00	1.19E-08		6.17E-09		1.80E-12			
DIBENZOFURAN	4.00E-03	4.00E-03		1.21E-01		1.00E+00	1.33E-08	0.00			2.01E-12		0.0000	1
FLUORANTHENE	4.00E-02	4.00E-02		3.66E+00	1.30E-01	1.00E+00	4.01E-07	0.00	2.08E-07	0.0000	6.08E-11		0.0000	4
FLUORENE	4.00E-02	4.00E-02		1.05E-01	1.30E-01	1.00E+00	1.15E-08	0.00	5.98E-09	0.0000	1.75E-12		0.0000	0
INDENO(1,2,3-c,d)PYRENE				2.63E-01	1.30E-01	1.00E+00	2.88E-08		1.49E-08		4.36E-12			
PHENANTHRENE	3.00E-01	3.00E-01		1.98E+00	1.30E-01	1.00E+00	2.17E-07	0.00	1.12E-07	0.0000	3.28E-11		0.0000	0
PYRENE	3.00E-02	3.00E-02		4.49E+00	1.30E-01	1.00E+00	4.92E-07	0.00	2.55E-07	0.0000	7.45E-11		0.0000	6
1,2,4-TRIMETHYLBENZENE	5.00E-02	5.00E-02	1.70E-03	9.70E-04		1.00E+00	1.06E-10	0.00			1.08E-09	0.00	0.0000	0
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	5.00E-02	5.00E-02	1.70E-03	2.13E-03		1.00E+00	2.34E-10	0.00			5.82E-09	0.00	0.0000	1
2-CHLOROTOLUENE	2.00E-02	2.00E-02	2.00E-02	1.00E-02		1.00E+00	1.10E-09	0.00			3.89E-08	0.00	0.0000	1
ACETONE	1.00E-01	1.00E-01	1.00E-01	1.67E-01		1.00E+00	1.83E-08	0.00			2.91E-07	0.00	0.0000	1
METHYL ETHYL KETONE (2-BUTANONE)	6.00E-01	6.00E-01	2.86E-01	4.14E-02		1.00E+00	4.53E-09	0.00			4.67E-08	0.00	0.0000	0
NAPHTHALENE	2.00E-02	2.00E-02	8.57E-04	3.05E-02	1.30E-01	1.00E+00	3.34E-09	0.00	1.73E-09	0.0000	1.55E-08	0.00	0.0000	5
n-PROPYLBENZENE	4.00E-02	4.00E-02	4.00E-02	1.80E-01		1.00E+00	1.97E-08	0.00			3.48E-07	0.00	0.0000	2
P-CYMENE (p-ISOPROPYLTOLUENE)	1.00E-01	1.00E-01	1.10E-01	1.30E-01		1.00E+00	1.42E-08	0.00			7.94E-07	0.00	0.0000	2
								0.0003		0.00005		0.00005		100
											Total HI =	0.0004		

Note:
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
EPC = Exposure Point Concentration
HI = Hazard Index
HQ = Hazard Quotient;
mg/kg-day = milligrams per kilogram per day
RfC = Reference Concentration
RfD_d = Dermal Reference Dose;
RfD_o = Oral Reference Dose
RfD_i = Inhalation Reference Dose

Table C-45

Onsite Trespasser Scenario - Potential Excess Lifetime Cancer Risk

All Surface Soil-Former Drum

Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation			
Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC (mg/kg)	ABS_d	ABS_{gi}	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	Total ELCR	% Contribution
BARIUM	D				1.90E+02		7.00E-02	2.68E-06				4.07E-10			
IRON	--				2.78E+04	0	1.00E+00	3.92E-04				5.93E-08			
LEAD	--				3.27E+01	0	1.00E+00	4.60E-07				6.98E-11			
p,p'-DDT	B2	3.40E-01	3.40E-01	3.40E-01	5.88E-01	3.00E-02	1.00E+00	8.29E-09	3E-09	9.92E-10	3E-10	1.26E-12	4E-13	3E-09	0
PCB-1260 (AROCHLOR 1260)	B2	2.00E+00	2.00E+00	2.00E+00	1.56E+01	1.40E-01	1.00E+00	2.20E-07	4E-07	1.23E-07	2E-07	3.33E-11	7E-11	7E-07	94
BENZO(a)PYRENE	B2	7.30E+00	7.30E+00		1.97E-01	1.30E-01	1.00E+00	2.78E-09	2E-08	1.44E-09	1E-08	4.21E-13		3E-08	4
BENZO(b)FLUORANTHENE	B2	7.30E-01	7.30E-01		3.59E-01	1.30E-01	1.00E+00	5.05E-09	4E-09	2.62E-09	2E-09	7.66E-13		6E-09	1
BENZO(k)FLUORANTHENE	B2	7.30E-02	7.30E-02		3.24E-01	1.30E-01	1.00E+00	4.57E-09	3E-10	2.37E-09	2E-10	6.92E-13		5E-10	0
CHRYSENE	B2	7.30E-03	7.30E-03		3.74E-01	1.30E-01	1.00E+00	5.27E-09	4E-11	2.73E-09	2E-11	7.98E-13		6E-11	0
FLUORANTHENE	D				4.59E-01	1.30E-01	1.00E+00	6.46E-09		3.35E-09		9.79E-13			
INDENO(1,2,3-c,d)PYRENE	B2	7.30E-01	7.30E-01		1.97E-01	1.30E-01	1.00E+00	2.78E-09	2E-09	1.44E-09	1E-09	4.21E-13		3E-09	0
PYRENE	D				3.25E-01	1.30E-01	1.00E+00	4.58E-09		2.38E-09		6.94E-13			
TRIPHENYLENE	--				7.40E+02	0	--	1.04E-05				1.58E-09			
TOLUENE	D				6.00E-03		1.00E+00	8.45E-11				4.25E-09			
XYLENES, TOTAL	D				6.00E-03	1.00E-01	1.00E+00	8.45E-11		3.37E-11		2.77E-09			
Total Risk									4.7E-07		2.6E-07		6.7E-11		100
												Total Risk =	7.3E-07		

Note:

Cancer WOE Classifications:

- Group A: Human carcinogen
- Group B (B1, B2): Probable human carcinogen
- Group C: Possible human carcinogen
- Group D: Not classifiable
- Group E: No evidence of carcinogenicity

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

ELCR = Excess Lifetime Cancer Risk

EPC = Exposure Point Concentration

mg/kg-day = milligrams per kilogram per day

SF_d = Dermal Slope Factor

SF_o = Oral Slope Factor

SF_i = Inhalation Slope Factor

WOE = Weight of Evidence

Table C-46
Onsite Trespasser Scenario - Potential Noncarcinogenic Risk
All Surface Soil-Former Drum
Fort Richardson- Operable Unit E

Chemical	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC (mg/kg)	ABS_d	ABS_{gi}	Ingestion CDI (mg/kg-day)	Ingestion HQ	Dermal CDI (mg/kg-day)	Dermal HQ	Inhalation CDI (mg/kg-day)	Inhalation HQ	Total HI	% Contribution
BARIUM	7.00E-02	4.90E-03	1.43E-04	1.90E+02		7.00E-02	2.09E-05	0.00			3.16E-09	0.00	0.00032	3
IRON	3.00E-01	3.00E-01		2.78E+04	0	1.00E+00	3.05E-03	0.01			4.62E-07		0.010	96
LEAD				3.27E+01	0	1.00E+00	3.58E-06				5.43E-10			
p,p'-DDT	5.00E-04	5.00E-04		5.88E-01	3.00E-02	1.00E+00	6.45E-08	0.00	7.72E-09	0.0000	9.77E-12		0.00014	1
PCB-1260 (AROCHLOR 1260)				1.56E+01	1.40E-01	1.00E+00	1.71E-06		9.55E-07		2.59E-10			
BENZO(a)PYRENE				1.97E-01	1.30E-01	1.00E+00	2.16E-08		1.12E-08		3.27E-12			
BENZO(b)FLUORANTHENE				3.59E-01	1.30E-01	1.00E+00	3.93E-08		2.04E-08		5.96E-12			
BENZO(k)FLUORANTHENE				3.24E-01	1.30E-01	1.00E+00	3.55E-08		1.84E-08		5.38E-12			
CHRYSENE				3.74E-01	1.30E-01	1.00E+00	4.10E-08		2.13E-08		6.21E-12			
FLUORANTHENE	4.00E-02	4.00E-02		4.59E-01	1.30E-01	1.00E+00	5.02E-08	0.00	2.61E-08	0.0000	7.61E-12		0.0000019	0
INDENO(1,2,3-c,d)PYRENE				1.97E-01	1.30E-01	1.00E+00	2.16E-08		1.12E-08		3.28E-12			
PYRENE	3.00E-02	3.00E-02		3.25E-01	1.30E-01	1.00E+00	3.56E-08	0.00	1.85E-08	0.0000	5.40E-12		0.0000018	0
TRIPHENYLENE				7.40E+02	0	--	8.11E-05				1.23E-08			
TOLUENE	2.00E-01	2.00E-01	1.10E-01	6.00E-03		1.00E+00	6.58E-10	0.00			3.30E-08	0.00	0.00000030	0
XYLENES, TOTAL	2.00E-01	2.00E-01	2.90E-02	6.00E-03	1.00E-01	1.00E+00	6.58E-10	0.00	2.62E-10	0.0000	2.16E-08	0.00	0.00000075	0
								0.011		0.00002		0.0000		100
											Total HI =	0.011		

Note:
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
EPC = Exposure Point Concentration
HI = Hazard Index
HQ = Hazard Quotient;
mg/kg-day = milligrams per kilogram per day
RfC = Reference Concentration
RfD_d = Dermal Reference Dose;
RfD_o = Oral Reference Dose
RfD_i = Inhalation Reference Dose

Table C-47

Onsite Trespasser Scenario - Potential Excess Lifetime Cancer Risk

All Surface Soil-Former Tank

Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation			%
Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC (mg/kg)	ABS_d	ABS_{gi}	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	Total ELCR	Contribution
DIELDRIN	B2	1.60E+01	1.60E+01	1.61E+01	6.00E-04	1.00E-01	1.00E+00	8.45E-12	1E-10	3.37E-12	5E-11	1.28E-15	2E-14	2E-10	12
p,p'-DDE	B2	3.40E-01	3.40E-01		4.00E-04	3.00E-02	1.00E+00	5.64E-12	2E-12	6.75E-13	2E-13	8.54E-16		2E-12	0
p,p'-DDT	B2	3.40E-01	3.40E-01	3.40E-01	7.00E-03	3.00E-02	1.00E+00	9.86E-11	3E-11	1.18E-11	4E-12	1.49E-14	5E-15	4E-11	2
PCB-1260 (AROCHLOR 1260)	B2	2.00E+00	2.00E+00	2.00E+00	3.00E-02	1.40E-01	1.00E+00	4.23E-10	8E-10	2.36E-10	5E-10	6.40E-14	1E-13	1E-09	84
bis(2-ETHYLHEXYL) PHTHALATE	--	1.40E-02	1.40E-02		1.00E-01	1.00E-01	1.00E+00	1.41E-09	2E-11	5.62E-10	8E-12	2.13E-13		3E-11	2
Total Risk									1.0E-09		5.4E-10		1.5E-13		100
													Total Risk = 1.6E-09		

Note:
Cancer WOE Classifications:
Group A: Human carcinogen
Group B (B1, B2): Probable human carcinogen
Group C: Possible human carcinogen
Group D: Not classifiable
Group E: No evidence of carcinogenicity
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
ELCR = Excess Lifetime Cancer Risk
EPC = Exposure Point Concentration
mg/kg-day = milligrams per kilogram per day
SF_d = Dermal Slope Factor
SF_o = Oral Slope Factor
SF_i = Inhalation Slope Factor
WOE = Weight of Evidence

Table C-48
Onsite Trespasser Scenario - Potential Noncarcinogenic Risk
All Surface Soil-Former Tank
Fort Richardson- Operable Unit E

Chemical	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC (mg/kg)	ABS_d	ABS_{gi}	Ingestion CDI (mg/kg-day)	Ingestion HQ	Dermal CDI (mg/kg-day)	Dermal HQ	Inhalation CDI (mg/kg-day)	Inhalation HQ	Total HI	% Contribution
DIELDRIN	5.00E-05	5.00E-05		6.00E-04	1.00E-01	1.00E+00	6.58E-11	0.00	2.62E-11	0.0000	9.96E-15		0.0000018	43
p,p'-DDE				4.00E-04	3.00E-02	1.00E+00	4.38E-11		5.25E-12		6.64E-15			
p,p'-DDT	5.00E-04	5.00E-04		7.00E-03	3.00E-02	1.00E+00	7.67E-10	0.00	9.18E-11	0.0000	1.16E-13		0.0000017	40
PCB-1260 (AROCHLOR 1260)				3.00E-02	1.40E-01	1.00E+00	3.29E-09		1.84E-09		4.98E-13			
bis(2-ETHYLHEXYL) PHTHALATE	2.00E-02	2.00E-02		1.00E-01	1.00E-01	1.00E+00	1.10E-08	0.00	4.37E-09	0.0000	1.66E-12		0.00000077	18
								0.0000034		0.00000093				100

Total HI = 0.0000043

Note:
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
EPC = Exposure Point Concentration
HI = Hazard Index
HQ = Hazard Quotient;
mg/kg-day = milligrams per kilogram per day
RfC = Reference Concentration
RfD_d = Dermal Reference Dose;
RfD_o = Oral Reference Dose
RfD_i = Inhalation Reference Dose

Table C-49

Onsite Trespasser Scenario - Potential Excess Lifetime Cancer Risk

All Surface Soil-Periphery Road

Fort Richardson - Operable Unit E

Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC (mg/kg)	ABS_d	ABS_{gi}	Ingestion CDI (mg/kg-day)	Ingestion ELCR	Dermal CDI (mg/kg-day)	Dermal ELCR	Inhalation CDI (mg/kg-day)	Inhalation ELCR	Total ELCR	% Contribution
1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	B2	1.50E+03	1.50E+03	1.50E+03	6.72E-05	3.00E-02	1.00E+00	9.47E-13	1E-09	1.13E-13	2E-10	1.43E-16	2E-13	2E-09	2
1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN	B2	1.50E+03	1.50E+03	1.50E+03	1.42E-04	3.00E-02	1.00E+00	2.00E-12	3E-09	2.39E-13	4E-10	3.03E-16	5E-13	3E-09	3
1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	B2	1.50E+03	1.50E+03	1.50E+03	2.37E-05	3.00E-02	1.00E+00	3.34E-13	5E-10	4.00E-14	6E-11	5.06E-17	8E-14	6E-10	1
1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	B2	1.50E+04	1.50E+04	1.50E+04	5.81E-05	3.00E-02	1.00E+00	8.19E-13	1E-08	9.80E-14	1E-09	1.24E-16	2E-12	1E-08	13
1,2,3,4,7,8-HEXACHLORODIBENZO-p-DIOXIN	B2	1.50E+04	1.50E+04	1.50E+04	1.10E-06	3.00E-02	1.00E+00	1.55E-14	2E-10	1.86E-15	3E-11	2.35E-18	4E-14	3E-10	0
1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	B2	1.50E+04	1.50E+04	1.50E+04	6.80E-06	3.00E-02	1.00E+00	9.58E-14	1E-09	1.15E-14	2E-10	1.45E-17	2E-13	2E-09	2
1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	B2	1.50E+04	1.50E+04	1.50E+04	3.70E-06	3.00E-02	1.00E+00	5.21E-14	8E-10	6.24E-15	9E-11	7.90E-18	1E-13	9E-10	1
1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	B2	1.50E+04	1.50E+04	1.50E+04	3.10E-06	3.00E-02	1.00E+00	4.37E-14	7E-10	5.23E-15	8E-11	6.62E-18	1E-13	7E-10	1
2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	B2	1.50E+04	1.50E+04	1.50E+04	4.00E-06	3.00E-02	1.00E+00	5.64E-14	8E-10	6.75E-15	1E-10	8.54E-18	1E-13	9E-10	1
2,3,4,7,8-PENTACHLORODIBENZOFURAN	B2	7.50E+04	7.50E+04	7.50E+04	4.90E-06	3.00E-02	1.00E+00	6.90E-14	5E-09	8.26E-15	6E-10	1.05E-17	8E-13	6E-09	6
2,3,7,8-TETRACHLORODIBENZOFURAN	B2	1.50E+04	1.50E+04	1.50E+04	5.20E-06	3.00E-02	1.00E+00	7.33E-14	1E-09	8.77E-15	1E-10	1.11E-17	2E-13	1E-09	1
OCTACHLORODIBENZOFURAN	B2	1.50E+01	1.50E+01	1.50E+01	2.04E-04	3.00E-02	1.00E+00	2.87E-12	4E-11	3.44E-13	5E-12	4.36E-16	7E-15	5E-11	0
OCTACHLORODIBENZO-p-DIOXIN	B2	1.50E+01	1.50E+01	1.50E+01	9.61E-04	3.00E-02	1.00E+00	1.35E-11	2E-10	1.62E-12	2E-11	2.05E-15	3E-14	2E-10	0
Total TCDD-Mammal	--	1.50E+05	1.50E+05	1.50E+05	1.15E-05	3.00E-02	1.00E+00	1.62E-13	2E-08	1.94E-14	3E-09	2.45E-17	4E-12	3E-08	26
PCB-1260 (AROCHLOR 1260)	B2	2.00E+00	2.00E+00	2.00E+00	1.74E+00	1.40E-01	1.00E+00	2.45E-08	5E-08	1.37E-08	3E-08	3.71E-12	7E-12	8E-08	74
Total Risk									7.3E-08		3.0E-08		1.1E-11		100
												Total Risk =	1.0E-07		

Note:

Cancer WOE Classifications:

Group A: Human carcinogen

Group B (B1, B2): Probable human carcinogen

Group C: Possible human carcinogen

Group D: Not classifiable

Group E: No evidence of carcinogenicity

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

ELCR = Excess Lifetime Cancer Risk

EPC = Exposure Point Concentration

mg/kg-day = milligrams per kilogram per day

SF_d = Dermal Slope Factor

SF_o = Oral Slope Factor

SF_i = Inhalation Slope Factor

WOE = Weight of Evidence

Table C-50

Onsite Trespasser Scenario - Potential Noncarcinogenic Risk

All Surface Soil-Periphery Road

Fort Richardson- Operable Unit E

Chemical	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC (mg/kg)	ABS_d	ABS_{gi}	Ingestion CDI (mg/kg-day)	Ingestion HQ	Dermal CDI (mg/kg-day)	Dermal HQ	Inhalation CDI (mg/kg-day)	Inhalation HQ	Total HI	% Contribution
1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN				6.72E-05	3.00E-02	1.00E+00	7.36E-12		8.82E-13		1.12E-15			#DIV/0!
1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN				1.42E-04	3.00E-02	1.00E+00	1.56E-11		1.86E-12		2.36E-15			#DIV/0!
1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN				2.37E-05	3.00E-02	1.00E+00	2.60E-12		3.11E-13		3.94E-16			#DIV/0!
1,2,3,4,7,8-HEXACHLORODIBENZOFURAN				5.81E-05	3.00E-02	1.00E+00	6.37E-12		7.62E-13		9.65E-16			#DIV/0!
1,2,3,4,7,8-HEXACHLORODIBENZO-p-DIOXIN				1.10E-06	3.00E-02	1.00E+00	1.21E-13		1.44E-14		1.83E-17			#DIV/0!
1,2,3,6,7,8-HEXACHLORODIBENZOFURAN				6.80E-06	3.00E-02	1.00E+00	7.45E-13		8.92E-14		1.13E-16			#DIV/0!
1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN				3.70E-06	3.00E-02	1.00E+00	4.05E-13		4.85E-14		6.14E-17			#DIV/0!
1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN				3.10E-06	3.00E-02	1.00E+00	3.40E-13		4.07E-14		5.15E-17			#DIV/0!
2,3,4,6,7,8-HEXACHLORODIBENZOFURAN				4.00E-06	3.00E-02	1.00E+00	4.38E-13		5.25E-14		6.64E-17			#DIV/0!
2,3,4,7,8-PENTACHLORODIBENZOFURAN				4.90E-06	3.00E-02	1.00E+00	5.37E-13		6.43E-14		8.14E-17			#DIV/0!
2,3,7,8-TETRACHLORODIBENZOFURAN				5.20E-06	3.00E-02	1.00E+00	5.70E-13		6.82E-14		8.63E-17			#DIV/0!
OCTACHLORODIBENZOFURAN				2.04E-04	3.00E-02	1.00E+00	2.24E-11		2.68E-12		3.39E-15			#DIV/0!
OCTACHLORODIBENZO-p-DIOXIN				9.61E-04	3.00E-02	1.00E+00	1.05E-10		1.26E-11		1.60E-14			#DIV/0!
Total TCDD-Mammal				1.15E-05	3.00E-02	1.00E+00	1.26E-12		1.51E-13		1.91E-16			#DIV/0!
PCB-1260 (AROCHLOR 1260)				1.74E+00	1.40E-01	1.00E+00	1.90E-07		1.06E-07		2.89E-11			#DIV/0!
														#DIV/0!

Total HI =

Note:

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

EPC = Exposure Point Concentration

HI = Hazard Index

HQ = Hazard Quotient;

mg/kg-day = milligrams per kilogram per day

RfC = Reference Concentration

RfD_d = Dermal Reference Dose;

RfD_o = Oral Reference Dose

RfD_i = Inhalation Reference Dose

Table C-51

Onsite Trespasser Scenario - Potential Excess Lifetime Cancer Risk

All Surface Soil-Soil Stockpile

Fort Richardson - Operable Unit E

Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC (mg/kg)	ABS_d	ABS_{gi}	Ingestion CDI (mg/kg-day)	Ingestion ELCR	Dermal CDI (mg/kg-day)	Dermal ELCR	Inhalation CDI (mg/kg-day)	Inhalation ELCR	Total ELCR	% Contribution
1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	B2	1.50E+03	1.50E+03	1.50E+03	1.39E-05	3.00E-02	1.00E+00	1.96E-13	3E-10	2.34E-14	4E-11	2.97E-17	4E-14	3E-10	2
1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN	B2	1.50E+03	1.50E+03	1.50E+03	1.53E-05	3.00E-02	1.00E+00	2.16E-13	3E-10	2.58E-14	4E-11	3.27E-17	5E-14	4E-10	2
1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	B2	1.50E+03	1.50E+03	1.50E+03	6.10E-06	3.00E-02	1.00E+00	8.59E-14	1E-10	1.03E-14	2E-11	1.30E-17	2E-14	1E-10	1
1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	B2	1.50E+04	1.50E+04	1.50E+04	1.16E-05	3.00E-02	1.00E+00	1.63E-13	2E-09	1.96E-14	3E-10	2.48E-17	4E-13	3E-09	13
1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	B2	1.50E+04	1.50E+04	1.50E+04	1.50E-06	3.00E-02	1.00E+00	2.11E-14	3E-10	2.53E-15	4E-11	3.20E-18	5E-14	4E-10	2
2,3,7,8-TETRACHLORODIBENZOFURAN	B2	1.50E+04	1.50E+04	1.50E+04	9.00E-07	3.00E-02	1.00E+00	1.27E-14	2E-10	1.52E-15	2E-11	1.92E-18	3E-14	2E-10	1
OCTACHLORODIBENZOFURAN	B2	1.50E+01	1.50E+01	1.50E+01	3.61E-05	3.00E-02	1.00E+00	5.09E-13	8E-12	6.09E-14	9E-13	7.71E-17	1E-15	9E-12	0
OCTACHLORODIBENZO-p-DIOXIN	B2	1.50E+01	1.50E+01	1.50E+01	8.58E-05	3.00E-02	1.00E+00	1.21E-12	2E-11	1.45E-13	2E-12	1.83E-16	3E-15	2E-11	0
Total TCDD-Mammal	--	1.50E+05	1.50E+05	1.50E+05	1.74E-06	3.00E-02	1.00E+00	2.45E-14	4E-09	2.93E-15	4E-10	3.71E-18	6E-13	4E-09	20
PCB-1260 (AROCHLOR 1260)	B2	2.00E+00	2.00E+00	2.00E+00	3.71E-01	1.40E-01	1.00E+00	5.22E-09	1E-08	2.92E-09	6E-09	7.91E-13	2E-12	2E-08	80
Total Risk									1.4E-08		6.3E-09		2.1E-12		100
													Total Risk =	2.0E-08	

Note:

Cancer WOE Classifications:

Group A: Human carcinogen

Group B (B1, B2): Probable human carcinogen

Group C: Possible human carcinogen

Group D: Not classifiable

Group E: No evidence of carcinogenicity

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

ELCR = Excess Lifetime Cancer Risk

EPC = Exposure Point Concentration

mg/kg-day = milligrams per kilogram per day

SF_d = Dermal Slope Factor

SF_o = Oral Slope Factor

SF_i = Inhalation Slope Factor

WOE = Weight of Evidence

Table C-52
Onsite Trespasser Scenario - Potential Noncarcinogenic Risk
All Surface Soil-Soil Stockpile
Fort Richardson- Operable Unit E

Chemical	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC (mg/kg)	ABS_d	ABS_{gi}	Ingestion CDI (mg/kg-day)	Ingestion HQ	Dermal CDI (mg/kg-day)	Dermal HQ	Inhalation CDI (mg/kg-day)	Inhalation HQ	Total HI	% Contribution
1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN				1.39E-05	3.00E-02	1.00E+00	1.52E-12		1.82E-13		2.31E-16			#DIV/0!
1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN				1.53E-05	3.00E-02	1.00E+00	1.68E-12		2.01E-13		2.54E-16			#DIV/0!
1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN				6.10E-06	3.00E-02	1.00E+00	6.68E-13		8.00E-14		1.01E-16			#DIV/0!
1,2,3,4,7,8-HEXACHLORODIBENZOFURAN				1.16E-05	3.00E-02	1.00E+00	1.27E-12		1.52E-13		1.93E-16			#DIV/0!
1,2,3,6,7,8-HEXACHLORODIBENZOFURAN				1.50E-06	3.00E-02	1.00E+00	1.64E-13		1.97E-14		2.49E-17			#DIV/0!
2,3,7,8-TETRACHLORODIBENZOFURAN				9.00E-07	3.00E-02	1.00E+00	9.86E-14		1.18E-14		1.49E-17			#DIV/0!
OCTACHLORODIBENZOFURAN				3.61E-05	3.00E-02	1.00E+00	3.96E-12		4.74E-13		5.99E-16			#DIV/0!
OCTACHLORODIBENZO-p-DIOXIN				8.58E-05	3.00E-02	1.00E+00	9.40E-12		1.13E-12		1.42E-15			#DIV/0!
Total TCDD-Mammal				1.74E-06	3.00E-02	1.00E+00	1.91E-13		2.28E-14		2.89E-17			#DIV/0!
PCB-1260 (AROCHLOR 1260)				3.71E-01	1.40E-01	1.00E+00	4.06E-08		2.27E-08		6.16E-12			#DIV/0!
														#DIV/0!

Total HI =

Note:
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
EPC = Exposure Point Concentration
HI = Hazard Index
HQ = Hazard Quotient;
mg/kg-day = milligrams per kilogram per day
RfC = Reference Concentration
RfD_d = Dermal Reference Dose;
RfD_o = Oral Reference Dose
RfD_i = Inhalation Reference Dose

Table C-53

Onsite Trespasser Scenario - Potential Excess Lifetime Cancer Risk

All Surface Soil-Transformer Mounting

Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation			%
Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC (mg/kg)	ABS_d	ABS_{gi}	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	Total ELCR	Contribution
1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	B2	1.50E+03	1.50E+03	1.50E+03	1.66E-04	3.00E-02	1.00E+00	2.34E-12	4E-09	2.80E-13	4E-10	3.54E-16	5E-13	4E-09	1
1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN	B2	1.50E+03	1.50E+03	1.50E+03	5.18E-04	3.00E-02	1.00E+00	7.30E-12	1E-08	8.74E-13	1E-09	1.11E-15	2E-12	1E-08	3
1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	B2	1.50E+03	1.50E+03	1.50E+03	1.96E-05	3.00E-02	1.00E+00	2.76E-13	4E-10	3.31E-14	5E-11	4.18E-17	6E-14	5E-10	0
1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	B2	1.50E+04	1.50E+04	1.50E+04	3.72E-05	3.00E-02	1.00E+00	5.24E-13	8E-09	6.27E-14	9E-10	7.94E-17	1E-12	9E-09	2
1,2,3,4,7,8-HEXACHLORODIBENZO-p-DIOXIN	B2	1.50E+04	1.50E+04	1.50E+04	2.60E-06	3.00E-02	1.00E+00	3.66E-14	5E-10	4.39E-15	7E-11	5.55E-18	8E-14	6E-10	0
1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	B2	1.50E+04	1.50E+04	1.50E+04	6.40E-06	3.00E-02	1.00E+00	9.02E-14	1E-09	1.08E-14	2E-10	1.37E-17	2E-13	2E-09	0
1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	B2	1.50E+04	1.50E+04	1.50E+04	1.17E-05	3.00E-02	1.00E+00	1.65E-13	2E-09	1.97E-14	3E-10	2.50E-17	4E-13	3E-09	1
1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	B2	1.50E+04	1.50E+04	1.50E+04	6.20E-06	3.00E-02	1.00E+00	8.74E-14	1E-09	1.05E-14	2E-10	1.32E-17	2E-13	1E-09	0
1,2,3,7,8-PENTACHLORODIBENZOFURAN	B2	7.50E+03	7.50E+03	7.50E+03	8.32E-05	3.00E-02	1.00E+00	1.17E-12	9E-09	1.40E-13	1E-09	1.78E-16	1E-12	1E-08	2
1,2,3,7,8-PENTACHLORODIBENZO-p-DIOXIN	B2	1.50E+05	1.50E+05	1.50E+05	6.40E-07	3.00E-02	1.00E+00	9.02E-15	1E-09	1.08E-15	2E-10	1.37E-18	2E-13	2E-09	0
2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	B2	1.50E+04	1.50E+04	1.50E+04	4.70E-06	3.00E-02	1.00E+00	6.62E-14	1E-09	7.93E-15	1E-10	1.00E-17	2E-13	1E-09	0
2,3,4,7,8-PENTACHLORODIBENZOFURAN	B2	7.50E+04	7.50E+04	7.50E+04	3.90E-06	3.00E-02	1.00E+00	5.50E-14	4E-09	6.58E-15	5E-10	8.33E-18	6E-13	5E-09	1
2,3,7,8-TETRACHLORODIBENZOFURAN	B2	1.50E+04	1.50E+04	1.50E+04	5.20E-06	3.00E-02	1.00E+00	7.33E-14	1E-09	8.77E-15	1E-10	1.11E-17	2E-13	1E-09	0
2,3,7,8-TETRACHLORODIBENZO-p-DIOXIN	B2	1.50E+05	1.50E+05	1.50E+05	2.60E-07	3.00E-02	1.00E+00	3.66E-15	5E-10	4.39E-16	7E-11	5.55E-19	8E-14	6E-10	0
OCTACHLORODIBENZOFURAN	B2	1.50E+01	1.50E+01	1.50E+01	7.87E-04	3.00E-02	1.00E+00	1.11E-11	2E-10	1.33E-12	2E-11	1.68E-15	3E-14	2E-10	0
OCTACHLORODIBENZO-p-DIOXIN	B2	1.50E+01	1.50E+01	1.50E+01	4.49E-03	3.00E-02	1.00E+00	6.33E-11	9E-10	7.57E-12	1E-10	9.59E-15	1E-13	1E-09	0
Total TCDD-Mammal	--	1.50E+05	1.50E+05	1.50E+05	1.68E-05	3.00E-02	1.00E+00	2.37E-13	4E-08	2.84E-14	4E-09	3.59E-17	5E-12	4E-08	8
PCB-1260 (AROCHLOR 1260)	B2	2.00E+00	2.00E+00	2.00E+00	9.83E+00	1.40E-01	1.00E+00	1.38E-07	3E-07	7.73E-08	2E-07	2.10E-11	4E-11	4E-07	92
Total Risk									3.1E-07		1.6E-07		4.7E-11		100
												Total Risk =	4.7E-07		

Note:

Cancer WOE Classifications:

Group A: Human carcinogen
Group B (B1, B2): Probable human carcinogen
Group C: Possible human carcinogen
Group D: Not classifiable
Group E: No evidence of carcinogenicity

ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
ELCR = Excess Lifetime Cancer Risk
EPC = Exposure Point Concentration
mg/kg-day = milligrams per kilogram per day
SF_d = Dermal Slope Factor
SF_o = Oral Slope Factor
SF_i = Inhalation Slope Factor
WOE = Weight of Evidence

Table C-54
Onsite Trespasser Scenario - Potential Noncarcinogenic Risk
All Surface Soil-Transformer Mounting
Fort Richardson- Operable Unit E

Chemical	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC (mg/kg)	ABS_d	ABS_{gi}	Ingestion CDI (mg/kg-day)	Ingestion HQ	Dermal CDI (mg/kg-day)	Dermal HQ	Inhalation CDI (mg/kg-day)	Inhalation HQ	Total HI	% Contribution
1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN				1.66E-04	3.00E-02	1.00E+00	1.82E-11		2.18E-12		2.76E-15			#DIV/0!
1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN				5.18E-04	3.00E-02	1.00E+00	5.68E-11		6.80E-12		8.60E-15			#DIV/0!
1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN				1.96E-05	3.00E-02	1.00E+00	2.15E-12		2.57E-13		3.25E-16			#DIV/0!
1,2,3,4,7,8-HEXACHLORODIBENZOFURAN				3.72E-05	3.00E-02	1.00E+00	4.08E-12		4.88E-13		6.18E-16			#DIV/0!
1,2,3,4,7,8-HEXACHLORODIBENZO-p-DIOXIN				2.60E-06	3.00E-02	1.00E+00	2.85E-13		3.41E-14		4.32E-17			#DIV/0!
1,2,3,6,7,8-HEXACHLORODIBENZOFURAN				6.40E-06	3.00E-02	1.00E+00	7.01E-13		8.40E-14		1.06E-16			#DIV/0!
1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN				1.17E-05	3.00E-02	1.00E+00	1.28E-12		1.53E-13		1.94E-16			#DIV/0!
1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN				6.20E-06	3.00E-02	1.00E+00	6.79E-13		8.13E-14		1.03E-16			#DIV/0!
1,2,3,7,8-PENTACHLORODIBENZOFURAN				8.32E-05	3.00E-02	1.00E+00	9.12E-12		1.09E-12		1.38E-15			#DIV/0!
1,2,3,7,8-PENTACHLORODIBENZO-p-DIOXIN				6.40E-07	3.00E-02	1.00E+00	7.01E-14		8.40E-15		1.06E-17			#DIV/0!
2,3,4,6,7,8-HEXACHLORODIBENZOFURAN				4.70E-06	3.00E-02	1.00E+00	5.15E-13		6.17E-14		7.80E-17			#DIV/0!
2,3,4,7,8-PENTACHLORODIBENZOFURAN				3.90E-06	3.00E-02	1.00E+00	4.27E-13		5.12E-14		6.48E-17			#DIV/0!
2,3,7,8-TETRACHLORODIBENZOFURAN				5.20E-06	3.00E-02	1.00E+00	5.70E-13		6.82E-14		8.63E-17			#DIV/0!
2,3,7,8-TETRACHLORODIBENZO-p-DIOXIN				2.60E-07	3.00E-02	1.00E+00	2.85E-14		3.41E-15		4.32E-18			#DIV/0!
OCTACHLORODIBENZOFURAN				7.87E-04	3.00E-02	1.00E+00	8.62E-11		1.03E-11		1.31E-14			#DIV/0!
OCTACHLORODIBENZO-p-DIOXIN				4.49E-03	3.00E-02	1.00E+00	4.92E-10		5.89E-11		7.46E-14			#DIV/0!
Total TCDD-Mammal				1.68E-05	3.00E-02	1.00E+00	1.84E-12		2.21E-13		2.79E-16			#DIV/0!
PCB-1260 (AROCHLOR 1260)				9.83E+00	1.40E-01	1.00E+00	1.08E-06		6.01E-07		1.63E-10			#DIV/0!
													Total HI =	#DIV/0!

Note:
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
EPC = Exposure Point Concentration
HI = Hazard Index
HQ = Hazard Quotient;
mg/kg-day = milligrams per kilogram per day
RfC = Reference Concentration
RfD_d = Dermal Reference Dose;
RfD_o = Oral Reference Dose
RfD_i = Inhalation Reference Dose

Table C-55

Hypothetical Future Residential Scenario - Potential Excess Lifetime Cancer Risk

Surface Soil - All Building 35-752 Areas

Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation		Total Risk	%
Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC (mg/kg)	ABS_d	ABS_{gi}	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR		Contribution
1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	B2	1.50E+03	1.50E+03	1.50E+03	8.59E-05	3.00E-02	1	7.66E-11	1.1E-07	7.28E-12	1.1E-08	5.53E-15	8.3E-12	1.3E-07	1
1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN	B2	1.50E+03	1.50E+03	1.50E+03	3.11E-04	3.00E-02	1	2.77E-10	4.2E-07	2.63E-11	4.0E-08	2.00E-14	3.0E-11	4.6E-07	3
1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	B2	1.50E+03	1.50E+03	1.50E+03	1.28E-05	3.00E-02	1	1.14E-11	1.7E-08	1.09E-12	1.6E-09	8.26E-16	1.2E-12	1.9E-08	0
1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	B2	1.50E+04	1.50E+04	1.50E+04	2.76E-05	3.00E-02	1	2.46E-11	3.7E-07	2.33E-12	3.5E-08	1.77E-15	2.7E-11	4.0E-07	2
1,2,3,4,7,8-HEXACHLORODIBENZO-p-DIOXIN	B2	1.50E+04	1.50E+04	1.50E+04	2.10E-06	3.00E-02	1	1.88E-12	2.8E-08	1.78E-13	2.7E-09	1.36E-16	2.0E-12	3.1E-08	0
1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	B2	1.50E+04	1.50E+04	1.50E+04	3.86E-06	3.00E-02	1	3.44E-12	5.2E-08	3.27E-13	4.9E-09	2.49E-16	3.7E-12	5.7E-08	0
1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	B2	1.50E+04	1.50E+04	1.50E+04	7.05E-06	3.00E-02	1	6.29E-12	9.4E-08	5.97E-13	9.0E-09	4.54E-16	6.8E-12	1.0E-07	1
1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	B2	1.50E+04	1.50E+04	1.50E+04	3.63E-06	3.00E-02	1	3.24E-12	4.9E-08	3.07E-13	4.6E-09	2.34E-16	3.5E-12	5.3E-08	0
1,2,3,7,8-PENTACHLORODIBENZOFURAN	B2	7.50E+03	7.50E+03	7.50E+03	8.32E-05	3.00E-02	1	7.42E-11	5.6E-07	7.05E-12	5.3E-08	5.36E-15	4.0E-11	6.1E-07	4
1,2,3,7,8-PENTACHLORODIBENZO-p-DIOXIN	B2	1.50E+05	1.50E+05	1.50E+05	6.40E-07	3.00E-02	1	5.71E-13	8.6E-08	5.42E-14	8.1E-09	4.12E-17	6.2E-12	9.4E-08	1
2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	B2	1.50E+04	1.50E+04	1.50E+04	3.14E-06	3.00E-02	1	2.80E-12	4.2E-08	2.66E-13	4.0E-09	2.02E-16	3.0E-12	4.6E-08	0
2,3,4,7,8-PENTACHLORODIBENZOFURAN	B2	7.50E+04	7.50E+04	7.50E+04	2.77E-06	3.00E-02	1	2.48E-12	1.9E-07	2.35E-13	1.8E-08	1.79E-16	1.3E-11	2.0E-07	1
2,3,7,8-TETRACHLORODIBENZOFURAN	B2	1.50E+04	1.50E+04	1.50E+04	3.35E-06	3.00E-02	1	2.99E-12	4.5E-08	2.84E-13	4.3E-09	2.16E-16	3.2E-12	4.9E-08	0
2,3,7,8-TETRACHLORODIBENZO-p-DIOXIN	B2	1.50E+05	1.50E+05	1.50E+05	3.49E-07	3.00E-02	1	3.11E-13	4.7E-08	2.96E-14	4.4E-09	2.25E-17	3.4E-12	5.1E-08	0
OCTACHLORODIBENZOFURAN	B2	1.50E+01	1.50E+01	1.50E+01	4.74E-04	3.00E-02	1	4.23E-10	6.3E-09	4.01E-11	6.0E-10	3.05E-14	4.6E-13	6.9E-09	0
OCTACHLORODIBENZO-p-DIOXIN	B2	1.50E+01	1.50E+01	1.50E+01	3.39E-03	3.00E-02	1	3.03E-09	4.5E-08	2.87E-10	4.3E-09	2.19E-13	3.3E-12	5.0E-08	0
Total TCDD-Mammal	--	1.50E+05	1.50E+05	1.50E+05	9.32E-06	3.00E-02	1	8.32E-12	**1.2E-06**	7.90E-13	1.2E-07	6.00E-16	9.0E-11	**1.4E-06**	**8**
BARIUM	D				1.10E+02		0	9.79E-05				7.07E-09			
IRON	--				2.78E+04	0	1	2.48E-02				1.79E-06			
LEAD	--				7.58E+01	0	1	6.76E-05				4.88E-09			
ALDRIN	B2	1.70E+01	1.70E+01	1.72E+01	2.68E-03	1.00E-01	1	2.39E-09	4.1E-08	7.55E-10	1.3E-08	1.72E-13	3.0E-12	5.3E-08	0
BETA BHC	C	1.80E+00	1.80E+00	1.80E+00	7.78E-03	4.00E-02	1	6.94E-09	1.3E-08	8.79E-10	1.6E-09	5.01E-13	9.0E-13	1.4E-08	0
DIELDRIN	B2	1.60E+01	1.60E+01	1.61E+01	1.41E-02	1.00E-01	1	1.25E-08	2.0E-07	3.97E-09	6.3E-08	9.05E-13	1.5E-11	2.6E-07	2
ENDRIN	D				1.18E-02	1.00E-01	1	1.05E-08		3.34E-09		7.61E-13			
ENDRIN ALDEHYDE	D				6.17E-02	1.00E-01	1	5.50E-08		1.74E-08		3.97E-12			
p,p'-DDD	B2	2.40E-01	2.40E-01		1.87E-01	3.00E-02	1	1.67E-07	4.0E-08	1.58E-08	3.8E-09	1.20E-11		4.4E-08	0
p,p'-DDE	B2	3.40E-01	3.40E-01		1.47E-02	3.00E-02	1	1.31E-08	4.5E-09	1.25E-09	4.2E-10	9.47E-13		4.9E-09	0
p,p'-DDT	B2	3.40E-01	3.40E-01	3.40E-01	1.00E-01	3.00E-02	1	8.96E-08	3.0E-08	8.50E-09	2.9E-09	6.46E-12	2.2E-12	3.3E-08	0
PCB-1260 (Aroclor 1260)	B2	2.00E+00	2.00E+00	2.00E+00	4.50E+00	1.40E-01	1	4.02E-06	**8.0E-06**	1.78E-06	**3.6E-06**	2.90E-10	5.8E-10	**1.2E-05**	**70**
2-METHYLNAPHTHALENE	--				9.46E-02	1.30E-01	1	8.44E-08		3.47E-08		6.09E-12			
ACENAPHTHENE	D				9.46E-02	1.30E-01	1	8.44E-08		3.47E-08		6.09E-12			
ACENAPHTHYLENE	--				9.40E-02	1.30E-01	1	8.38E-08		3.45E-08		6.05E-12			
ANTHRACENE	D				2.78E-01	1.30E-01	1	2.48E-07		1.02E-07		1.79E-11			
BENZO(a)ANTHRACENE	B2	7.30E-01	7.30E-01		2.67E-01	1.30E-01	1	2.38E-07	1.7E-07	9.81E-08	7.2E-08	1.72E-11		2.5E-07	1
BENZO(a)PYRENE	B2	7.30E+00	7.30E+00		1.73E-01	1.30E-01	1	1.55E-07	**1.1E-06**	6.36E-08	4.6E-07	1.12E-11		**1.6E-06**	**10**
BENZO(b)FLUORANTHENE	B2	7.30E-01	7.30E-01		3.59E-01	1.30E-01	1	3.21E-07	2.3E-07	1.32E-07	9.6E-08	2.31E-11		3.3E-07	2
BENZO(g,h,i)PERYLENE	--			1.60E+01	1.10E-01	1.30E-01	1	9.77E-08		4.02E-08		7.05E-12	1.1E-10	1.1E-10	0
BENZO(k)FLUORANTHENE	B2	7.30E-02	7.30E-02		3.17E-01	1.30E-01	1	2.83E-07	2.1E-08	1.17E-07	8.5E-09	2.04E-11		2.9E-08	0
BENZYL BUTYL PHTHALATE	C				8.67E-02	1.00E-01	1	7.74E-08		2.45E-08		5.58E-12			
bis(2-ETHYLHEXYL) PHTHALATE	--	1.40E-02	1.40E-02		4.53E+00	1.00E-01	1	4.04E-06	5.7E-08	1.28E-06	1.8E-08	2.92E-10		7.4E-08	0
CHRYSENE	B2	7.30E-03	7.30E-03		5.63E-01	1.30E-01	1	5.02E-07	3.7E-09	2.07E-07	1.5E-09	3.62E-11		5.2E-09	0
DIBENZ(a,h)ANTHRACENE	B2	7.30E+00	7.30E+00		8.62E-02	1.30E-01	1	7.69E-08	5.6E-07	3.17E-08	2.3E-07	5.55E-12		7.9E-07	5
DIBENZOFURAN	D				9.59E-02		1	8.56E-08				6.18E-12			
DI-n-BUTYL PHTHALATE	D				1.99E-01	1.00E-01	1	1.77E-07		5.62E-08		1.28E-11			
FLUORANTHENE	D				1.67E+00	1.30E-01	1	1.49E-06		6.13E-07		1.08E-10			
FLUORENE	D				8.88E-02	1.30E-01	1	7.92E-08		3.26E-08		5.72E-12			
INDENO(1,2,3-c,d)PYRENE	B2	7.30E-01	7.30E-01		1.36E-01	1.30E-01	1	1.22E-07	8.9E-08	5.00E-08	3.7E-08	8.77E-12		1.3E-07	1
PHENANTHRENE	D				8.66E-01	1.30E-01	1	7.72E-07		3.18E-07		5.57E-11			
PYRENE	D				1.76E+00	1.30E-01	1	1.57E-06		6.47E-07		1.13E-10			
1,1,1-TRICHLOROETHANE	D				1.96E-03		1	1.75E-09				7.54E-08			
1,2,4-TRIMETHYLBENZENE	--				4.62E-03		1	4.12E-09				2.00E-08			

Table C-55

Hypothetical Future Residential Scenario - Potential Excess Lifetime Cancer Risk

Surface Soil - All Building 35-752 Areas

Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation		Total Risk	%
Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC (mg/kg)	ABS_d	ABS_{gi}	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR		Contribution
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	--				4.76E-03		1	4.25E-09				5.04E-08			
2-CHLOROTOLUENE	D				5.00E-03		1	4.47E-09				7.55E-08			
ACETONE	D				9.39E-02		1	8.38E-08				6.36E-07			
METHYL ETHYL KETONE (2-BUTANONE)	D				2.17E-02		1	1.94E-08				9.50E-08			
METHYLENE CHLORIDE	B2	7.50E-03	7.50E-03	1.65E-03	9.95E-03		1	8.88E-09	6.7E-11			3.39E-07	5.6E-10	6.2E-10	0
NAPHTHALENE	C				6.61E-03	1.30E-01	1	5.90E-09		2.43E-09		1.30E-08			
n-PROPYLBENZENE	--				6.15E-02		1	5.49E-08				4.61E-07			
P-CYMENE (p-ISOPROPYLTOLUENE)	D				3.72E-02		1	3.32E-08				8.81E-07			
TOLUENE	D				2.49E-03		1	2.22E-09				5.32E-08			
TRICHLOROETHYLENE (TCE)	B2	1.10E-02	1.10E-02	6.00E-03	9.78E-03		1	8.73E-09	9.6E-11			2.55E-07	1.5E-09	1.6E-09	0
XYLENES, m & p	D				1.75E-03	1.00E-01	1	1.56E-09		4.94E-10		2.44E-08			
XYLENES, TOTAL	D				3.03E-03	1.00E-01	1	2.70E-09		8.55E-10		4.22E-08			
	Total Risk								**1.2E-05**		**4.7E-06**		2.9E-09		100
													Total Risk =	**1.7E-05**	

Note:

Cancer WOE Classifications:

- Group A: Human carcinogen
- Group B (B1, B2): Probable human carcinogen
- Group C: Possible human carcinogen
- Group D: Not classifiable
- Group E: No evidence of carcinogenicity

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

ELCR = Excess Lifetime Cancer Risk

EPC = Exposure Point Concentration

mg/kg-day = milligrams per kilogram per day

SF_d = Dermal Slope Factor

SF_o = Oral Slope Factor

SF_i = Inhalation Slope Factor

WOE = Weight of Evidence

Table C-56
Hypothetical Future Residential Scenario - Potential Noncarcinogenic Risk
Surface Soil - All Building 35-752 Areas
Fort Richardson- Operable Unit E

Chemical	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC (mg/kg)	ABS_d	ABS_{gi}	Ingestion CDI (mg/kg-day)	Ingestion HQ	Dermal CDI (mg/kg-day)	Dermal HQ	Inhalation CDI (mg/kg-day)	Inhalation HQ	Total HI	% Contribution
1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN				8.59E-05	3.00E-02	1	1.79E-10		1.70E-11		1.29E-14			
1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN				3.11E-04	3.00E-02	1	6.47E-10		6.15E-11		4.67E-14			
1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN				1.28E-05	3.00E-02	1	2.67E-11		2.54E-12		1.93E-15			
1,2,3,4,7,8-HEXACHLORODIBENZOFURAN				2.76E-05	3.00E-02	1	5.74E-11		5.45E-12		4.14E-15			
1,2,3,4,7,8-HEXACHLORODIBENZO-p-DIOXIN				2.10E-06	3.00E-02	1	4.38E-12		4.16E-13		3.16E-16			
1,2,3,6,7,8-HEXACHLORODIBENZOFURAN				3.86E-06	3.00E-02	1	8.04E-12		7.63E-13		5.80E-16			
1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN				7.05E-06	3.00E-02	1	1.47E-11		1.39E-12		1.06E-15			
1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN				3.63E-06	3.00E-02	1	7.55E-12		7.17E-13		5.45E-16			
1,2,3,7,8-PENTACHLORODIBENZOFURAN				8.32E-05	3.00E-02	1	1.73E-10		1.64E-11		1.25E-14			
1,2,3,7,8-PENTACHLORODIBENZO-p-DIOXIN				6.40E-07	3.00E-02	1	1.33E-12		1.27E-13		9.62E-17			
2,3,4,6,7,8-HEXACHLORODIBENZOFURAN				3.14E-06	3.00E-02	1	6.53E-12		6.20E-13		4.71E-16			
2,3,4,7,8-PENTACHLORODIBENZOFURAN				2.77E-06	3.00E-02	1	5.78E-12		5.49E-13		4.17E-16			
2,3,7,8-TETRACHLORODIBENZOFURAN				3.35E-06	3.00E-02	1	6.98E-12		6.63E-13		5.04E-16			
2,3,7,8-TETRACHLORODIBENZO-p-DIOXIN				3.49E-07	3.00E-02	1	7.27E-13		6.90E-14		5.24E-17			
OCTACHLORODIBENZOFURAN				4.74E-04	3.00E-02	1	9.87E-10		9.37E-11		7.12E-14			
OCTACHLORODIBENZO-p-DIOXIN				3.39E-03	3.00E-02	1	7.07E-09		6.71E-10		5.10E-13			
Total TCDD-Mammal				9.32E-06	3.00E-02	1	1.94E-11		1.84E-12		1.40E-15			
BARIUM	7.00E-02	4.90E-03	1.43E-04	1.10E+02		0	2.28E-04	0.00			1.65E-08	0.000	0.00	2
IRON	3.00E-01	3.00E-01		2.78E+04	0	1	5.79E-02	0.19			4.18E-06		0.19	97
LEAD				7.58E+01	0	1	1.58E-04				1.14E-08			
ALDRIN	3.00E-05	3.00E-05		2.68E-03	1.00E-01	1	5.57E-09	0.00	1.76E-09	0.00	4.02E-13		0.00	0
BETA BHC	2.00E-04	2.00E-04		7.78E-03	4.00E-02	1	1.62E-08	0.00	2.05E-09	0.00	1.17E-12		0.00	0
DIELDRIN	5.00E-05	5.00E-05		1.41E-02	1.00E-01	1	2.93E-08	0.00	9.26E-09	0.00	2.11E-12		0.00	0
ENDRIN	3.00E-04	3.00E-04		1.18E-02	1.00E-01	1	2.46E-08	0.00	7.78E-09	0.00	1.77E-12		0.00	0
ENDRIN ALDEHYDE	3.00E-04	3.00E-04		6.17E-02	1.00E-01	1	1.28E-07	0.00	4.06E-08	0.00	9.27E-12		0.00	0
p,p'-DDD				1.87E-01	3.00E-02	1	3.89E-07		3.69E-08		2.80E-11			
p,p'-DDE				1.47E-02	3.00E-02	1	3.06E-08		2.91E-09		2.21E-12			
p,p'-DDT	5.00E-04	5.00E-04		1.00E-01	3.00E-02	1	2.09E-07	0.00	1.98E-08	0.00	1.51E-11		0.00	0
PCB-1260 (Aroclor 1260)				4.50E+00	1.40E-01	1	9.38E-06		4.16E-06		6.77E-10			
2-METHYLNAPHTHALENE	9.00E-03	9.00E-03		9.46E-02	1.30E-01	1	1.97E-07	0.00	8.10E-08	0.00	1.42E-11		0.00	0
ACENAPHTHENE	6.00E-02	6.00E-02		9.46E-02	1.30E-01	1	1.97E-07	0.00	8.10E-08	0.00	1.42E-11		0.00	0
ACENAPHTHYLENE	6.00E-02	6.00E-02		9.40E-02	1.30E-01	1	1.96E-07	0.00	8.05E-08	0.00	1.41E-11		0.00	0
ANTHRACENE	3.00E-01	3.00E-01		2.78E-01	1.30E-01	1	5.79E-07	0.00	2.38E-07	0.00	4.18E-11		0.00	0
BENZO(a)ANTHRACENE				2.67E-01	1.30E-01	1	5.56E-07		2.29E-07		4.01E-11			
BENZO(a)PYRENE				1.73E-01	1.30E-01	1	3.61E-07		1.48E-07		2.60E-11			
BENZO(b)FLUORANTHENE				3.59E-01	1.30E-01	1	7.48E-07		3.08E-07		5.40E-11			
BENZO(g,h,i)PERYLENE				1.10E-01	1.30E-01	1	2.28E-07		9.38E-08		1.65E-11			
BENZO(k)FLUORANTHENE				3.17E-01	1.30E-01	1	6.61E-07		2.72E-07		4.77E-11			
BENZYL BUTYL PHTHALATE	2.00E-01	2.00E-01		8.67E-02	1.00E-01	1	1.81E-07	0.00	5.71E-08	0.00	1.30E-11		0.00	0
bis(2-ETHYLHEXYL) PHTHALATE	2.00E-02	2.00E-02		4.53E+00	1.00E-01	1	9.43E-06	0.00	2.98E-06	0.00	6.80E-10		0.00	0
CHRYSENE				5.63E-01	1.30E-01	1	1.17E-06		4.82E-07		8.46E-11			
DIBENZ(a,h)ANTHRACENE				8.62E-02	1.30E-01	1	1.80E-07		7.39E-08		1.30E-11			
DIBENZOFURAN	4.00E-03	4.00E-03		9.59E-02		1	2.00E-07	0.00			1.44E-11		0.00	0
DI-n-BUTYL PHTHALATE	1.00E-01	1.00E-01		1.99E-01	1.00E-01	1	4.14E-07	0.00	1.31E-07	0.00	2.99E-11		0.00	0
FLUORANTHENE	4.00E-02	4.00E-02		1.67E+00	1.30E-01	1	3.48E-06	0.00	1.43E-06	0.00	2.51E-10		0.00	0
FLUORENE	4.00E-02	4.00E-02		8.88E-02	1.30E-01	1	1.85E-07	0.00	7.60E-08	0.00	1.33E-11		0.00	0
INDENO(1,2,3-c,d)PYRENE				1.36E-01	1.30E-01	1	2.84E-07		1.17E-07		2.05E-11			
PHENANTHRENE	3.00E-01	3.00E-01		8.66E-01	1.30E-01	1	1.80E-06	0.00	7.42E-07	0.00	1.30E-10		0.00	0
PYRENE	3.00E-02	3.00E-02		1.76E+00	1.30E-01	1	3.67E-06	0.00	1.51E-06	0.00	2.65E-10		0.00	0
1,1,1-TRICHLOROETHANE	2.80E-01	2.80E-01	6.30E-01	1.96E-03		1	4.09E-09	0.00			1.76E-07	0.000	0.00	0
1,2,4-TRIMETHYLBENZENE	5.00E-02	5.00E-02	1.70E-03	4.62E-03		1	9.62E-09	0.00			4.66E-08	0.000	0.00	0

Surface Soil - All Building 35-752 Areas
Fort Richardson- Operable Unit E

Chemical	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC (mg/kg)	ABS_d	ABS_{gi}	Ingestion CDI (mg/kg-day)	Ingestion HQ	Dermal CDI (mg/kg-day)	Dermal HQ	Inhalation CDI (mg/kg-day)	Inhalation HQ	Total HI	% Contribution
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	5.00E-02	5.00E-02	1.70E-03	4.76E-03		1	9.91E-09	0.00			1.17E-07	0.000	0.00	0
2-CHLOROTOLUENE	2.00E-02	2.00E-02	2.00E-02	5.00E-03		1	1.04E-08	0.00			1.76E-07	0.000	0.00	0
ACETONE	1.00E-01	1.00E-01	1.00E-01	9.39E-02		1	1.96E-07	0.00			1.48E-06	0.000	0.00	0
METHYL ETHYL KETONE (2-BUTANONE)	6.00E-01	6.00E-01	2.86E-01	2.17E-02		1	4.52E-08	0.00			2.22E-07	0.000	0.00	0
METHYLENE CHLORIDE	6.00E-02	6.00E-02	8.57E-01	9.95E-03		1	2.07E-08	0.00			7.92E-07	0.000	0.00	0
NAPHTHALENE	2.00E-02	2.00E-02	8.57E-04	6.61E-03	1.30E-01	1	1.38E-08	0.00	5.66E-09	0.00	3.03E-08	0.000	0.00	0
n-PROPYLBENZENE	4.00E-02	4.00E-02	4.00E-02	6.15E-02		1	1.28E-07	0.00			1.08E-06	0.000	0.00	0
P-CYMENE (p-ISOPROPYLTOLUENE)	1.00E-01	1.00E-01	1.10E-01	3.72E-02		1	7.74E-08	0.00			2.06E-06	0.000	0.00	0
TOLUENE	2.00E-01	2.00E-01	1.10E-01	2.49E-03		1	5.18E-09	0.00			1.24E-07	0.000	0.00	0
TRICHLOROETHYLENE (TCE)	6.00E-03	6.00E-03	6.00E-03	9.78E-03		1	2.04E-08	0.00			5.95E-07	0.000	0.00	0
XYLENES, m & p	2.00E-01	2.00E-01	2.90E-02	1.75E-03	1.00E-01	1	3.64E-09	0.00	1.15E-09	0.00	5.69E-08	0.000	0.00	0
XYLENES, TOTAL	2.00E-01	2.00E-01	2.90E-02	3.03E-03	1.00E-01	1	6.30E-09	0.00	2.00E-09	0.00	9.84E-08	0.000	0.00	0
								0.20		0.0007		0.000		100
											Total HI =	0.20		

Note:
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
EPC = Exposure Point Concentration
HI = Hazard Index
HQ = Hazard Quotient;
mg/kg-day = milligrams per kilogram per day
RfC = Reference Concentration
RfD_d = Dermal Reference Dose;
RfD_o = Oral Reference Dose
RfD_i = Inhalation Reference Dose

Table C-57

Hypothetical Future Residential Scenario - Potential Excess Lifetime Cancer Risk

Surface Soil - Building 35-752

Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation		Total Risk	%
Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC (mg/kg)	ABS_d	ABS_{gi}	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR		Contribution
DIELDRIN	B2	1.60E+01	1.60E+01	1.61E+01	8.48E-02	1.00E-01	1	7.57E-08	**1.2E-06**	2.39E-08	3.8E-07	5.46E-12	8.8E-11	**1.6E-06**	6
p,p'-DDE	B2	3.40E-01	3.40E-01		6.05E-02	3.00E-02	1	5.40E-08	1.8E-08	5.12E-09	1.7E-09	3.89E-12		2.0E-08	0
PCB-1260 (AROCHLOR 1260)	B2	2.00E+00	2.00E+00	2.00E+00	9.20E+00	1.40E-01	1	8.21E-06	**1.6E-05**	3.64E-06	**7.3E-06**	5.92E-10	1.2E-09	**2.4E-05**	94
CHRYSENE	B2	7.30E-03	7.30E-03		1.00E-01	1.30E-01	1	8.92E-08	6.5E-10	3.67E-08	2.7E-10	6.44E-12		9.2E-10	0
FLUORANTHENE	D				1.00E-01	1.30E-01	1	8.92E-08		3.67E-08		6.44E-12			
PYRENE	D				1.00E-01	1.30E-01	1	8.92E-08		3.67E-08		6.44E-12			
1,1,1-TRICHLOROETHANE	D				2.62E-03		1	2.34E-09				1.01E-07			
	Total Risk								**1.8E-05**		**7.7E-06**		1.3E-09		100
													Total Risk = 2.5E-05		

Note:

Cancer WOE Classifications:

Group A: Human carcinogen

Group B (B1, B2): Probable human carcinogen

Group C: Possible human carcinogen

Group D: Not classifiable

Group E: No evidence of carcinogenicity

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

ELCR = Excess Lifetime Cancer Risk

EPC = Exposure Point Concentration

mg/kg-day = milligrams per kilogram per day

SF_d = Dermal Slope Factor

SF_o = Oral Slope Factor

SF_i = Inhalation Slope Factor

WOE = Weight of Evidence

Table C-58
Hypothetical Future Residential Scenario - Potential Noncarcinogenic Risk
Surface Soil - Building 35-752
Fort Richardson- Operable Unit E

Chemical	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC (mg/kg)	ABS_d	ABS_{gi}	Ingestion CDI (mg/kg-day)	Ingestion HQ	Dermal CDI (mg/kg-day)	Dermal HQ	Inhalation CDI (mg/kg-day)	Inhalation HQ	Total HI	% Contribution
DIELDRIN	5.00E-05	5.00E-05		8.48E-02	1.00E-01	1	1.77E-07	0.00	5.59E-08	0.00	1.27E-11		0.00	100
p,p'-DDE				6.05E-02	3.00E-02	1	1.26E-07		1.20E-08		9.09E-12			
PCB-1260 (AROCHLOR 1260)				9.20E+00	1.40E-01	1	1.92E-05		8.49E-06		1.38E-09			
CHRYSENE				1.00E-01	1.30E-01	1	2.08E-07		8.57E-08		1.50E-11			
FLUORANTHENE	4.00E-02	4.00E-02		1.00E-01	1.30E-01	1	2.08E-07	0.00	8.57E-08	0.00	1.50E-11		0.00	0
PYRENE	3.00E-02	3.00E-02		1.00E-01	1.30E-01	1	2.08E-07	0.00	8.57E-08	0.00	1.50E-11		0.00	0
1,1,1-TRICHLOROETHANE	2.80E-01	2.80E-01	6.30E-01	2.62E-03		1	5.46E-09	0.00			2.35E-07	0.000	0.00	0
								0.0035		0.0011		0.00000037		100
											Total HI =	0.0047		

Note:
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
EPC = Exposure Point Concentration
HI = Hazard Index
HQ = Hazard Quotient;
mg/kg-day = milligrams per kilogram per day
RfC = Reference Concentration
RfD_d = Dermal Reference Dose;
RfD_o = Oral Reference Dose
RfD_i = Inhalation Reference Dose

Table C-59
Hypothetical Future Residential Scenario - Potential Excess Lifetime Cancer Risk
Surface Soil - Burn Pit Area
Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation		Total Risk	%
Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC (mg/kg)	ABS_d	ABS_{gi}	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR		Contribution
TOTAL TCDD-MAMMAL	--	1.50E+05	1.50E+05	1.50E+05	1.89E-07	3.00E-02	1	1.69E-13	2.5E-08	1.60E-14	2.4E-09	1.22E-17	1.8E-12	2.8E-08	7
PCB-1260 (AROCHLOR 1260)	B2	2.00E+00	2.00E+00	2.00E+00	8.10E-02	1.40E-01	1	7.23E-08	1.4E-07	3.20E-08	6.4E-08	5.22E-12	1.0E-11	2.1E-07	51
BENZO(a)PYRENE	B2	7.30E+00	7.30E+00		1.50E-02	1.30E-01	1	1.34E-08	9.8E-08	5.51E-09	4.0E-08	9.66E-13		1.4E-07	34
BENZO(b)FLUORANTHENE	B2	7.30E-01	7.30E-01		1.30E-02	1.30E-01	1	1.16E-08	8.5E-09	4.77E-09	3.5E-09	8.37E-13		1.2E-08	3
BENZO(k)FLUORANTHENE	B2	7.30E-02	7.30E-02		1.75E-02	1.30E-01	1	1.56E-08	1.1E-09	6.43E-09	4.7E-10	1.13E-12		1.6E-09	0
BENZYL BUTYL PHTHALATE	C				2.00E-02	1.00E-01	1	1.78E-08		5.65E-09		1.29E-12			
bis(2-ETHYLHEXYL) PHTHALATE	--	1.40E-02	1.40E-02		7.60E-02	1.00E-01	1	6.78E-08	9.5E-10	2.15E-08	3.0E-10	4.89E-12		1.2E-09	0
CHRYSENE	B2	7.30E-03	7.30E-03		1.85E-02	1.30E-01	1	1.65E-08	1.2E-10	6.79E-09	5.0E-11	1.19E-12		1.7E-10	0
DI-n-BUTYL PHTHALATE	D				8.00E-01	1.00E-01	1	7.14E-07		2.26E-07		5.15E-11			
FLUORANTHENE	D				2.05E-02	1.30E-01	1	1.83E-08		7.53E-09		1.32E-12			
INDENO(1,2,3-c,d)PYRENE	B2	7.30E-01	7.30E-01		1.65E-02	1.30E-01	1	1.47E-08	1.1E-08	6.06E-09	4.4E-09	1.06E-12		1.5E-08	4
PHENANTHRENE	D				1.85E-02	1.30E-01	1	1.65E-08		6.79E-09		1.19E-12			
PYRENE	D				1.75E-02	1.30E-01	1	1.56E-08		6.43E-09		1.13E-12			
1,1,1-TRICHLOROETHANE	D				1.15E-03		1	1.03E-09				4.42E-08			
ACETONE	D				6.50E-03		1	5.80E-09				4.40E-08			
METHYL ETHYL KETONE (2-BUTANONI	D				4.60E-02		1	4.10E-08				2.01E-07			
METHYLENE CHLORIDE	B2	7.50E-03	7.50E-03	1.65E-03	3.30E-02		1	2.94E-08	2.2E-10			**1.12E-06**	1.9E-09	2.1E-09	1
P-CYMENE (p-ISOPROPYLTOLUENE)	D				4.70E-03		1	4.19E-09				1.11E-07			
TOLUENE	D				1.35E-03		1	1.20E-09				2.88E-08			
TRICHLOROETHYLENE (TCE)	B2	1.10E-02	1.10E-02	6.00E-03	3.00E-02		1	2.68E-08	2.9E-10			7.82E-07	4.7E-09	5.0E-09	1
XYLENES, m & p	D				4.80E-03	1.00E-01	1	4.28E-09		1.36E-09		6.69E-08			
	Total Risk								2.9E-07		1.2E-07		6.6E-09		100
													Total Risk = 4.1E-07		

Note:
Cancer WOE Classifications:
Group A: Human carcinogen
Group B (B1, B2): Probable human carcinogen
Group C: Possible human carcinogen
Group D: Not classifiable
Group E: No evidence of carcinogenicity
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
ELCR = Excess Lifetime Cancer Risk
EPC = Exposure Point Concentration
mg/kg-day = milligrams per kilogram per day
SF_d = Dermal Slope Factor
SF_o = Oral Slope Factor
SF_i = Inhalation Slope Factor
WOE = Weight of Evidence

Table C-60
Hypothetical Future Residential Scenario - Potential Noncarcinogenic Risk
Surface Soil - Burn Pit Area
Fort Richardson- Operable Unit E

Chemical	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC (mg/kg)	ABS_d	ABS_{gi}	Ingestion CDI (mg/kg-day)	Ingestion HQ	Dermal CDI (mg/kg-day)	Dermal HQ	Inhalation CDI (mg/kg-day)	Inhalation HQ	Total HI	% Contribution
TOTAL TCDD-MAMMAL				1.89E-07	3.00E-02	1	3.94E-13		3.74E-14		2.84E-17			
PCB-1260 (AROCHLOR 1260)				8.10E-02	1.40E-01	1	1.69E-07		7.47E-08		1.22E-11			
BENZO(a)PYRENE				1.50E-02	1.30E-01	1	3.12E-08		1.29E-08		2.25E-12			
BENZO(b)FLUORANTHENE				1.30E-02	1.30E-01	1	2.71E-08		1.11E-08		1.95E-12			
BENZO(k)FLUORANTHENE				1.75E-02	1.30E-01	1	3.64E-08		1.50E-08		2.63E-12			
BENZYL BUTYL PHTHALATE	2.00E-01	2.00E-01		2.00E-02	1.00E-01	1	4.16E-08	0.00	1.32E-08	0.00	3.01E-12		0.00	0
bis(2-ETHYLHEXYL) PHTHALATE	2.00E-02	2.00E-02		7.60E-02	1.00E-01	1	1.58E-07	0.00	5.01E-08	0.00	1.14E-11		0.00	3
CHRYSENE				1.85E-02	1.30E-01	1	3.85E-08		1.58E-08		2.78E-12			
DI-n-BUTYL PHTHALATE	1.00E-01	1.00E-01		8.00E-01	1.00E-01	1	1.67E-06	0.00	5.27E-07	0.00	1.20E-10		0.00	6
FLUORANTHENE	4.00E-02	4.00E-02		2.05E-02	1.30E-01	1	4.27E-08	0.00	1.76E-08	0.00	3.08E-12		0.00	0
INDENO(1,2,3-c,d)PYRENE				1.65E-02	1.30E-01	1	3.44E-08		1.41E-08		2.48E-12			
PHENANTHRENE	3.00E-01	3.00E-01		1.85E-02	1.30E-01	1	3.85E-08	0.00	1.58E-08	0.00	2.78E-12		0.00	0
PYRENE	3.00E-02	3.00E-02		1.75E-02	1.30E-01	1	3.64E-08	0.00	1.50E-08	0.00	2.63E-12		0.00	0
1,1,1-TRICHLOROETHANE	2.80E-01	2.80E-01	6.30E-01	1.15E-03		1	2.39E-09	0.00			1.03E-07	0.000	0.00	0
ACETONE	1.00E-01	1.00E-01	1.00E-01	6.50E-03		1	1.35E-08	0.00			1.03E-07	0.000	0.00	0
METHYL ETHYL KETONE (2-BUTANONE)	6.00E-01	6.00E-01	2.86E-01	4.60E-02		1	9.58E-08	0.00			4.70E-07	0.000	0.00	0
METHYLENE CHLORIDE	6.00E-02	6.00E-02	8.57E-01	3.30E-02		1	6.87E-08	0.00			2.62E-06	0.000	0.00	1
P-CYMENE (p-ISOPROPYLTOLUENE)	1.00E-01	1.00E-01	1.10E-01	4.70E-03		1	9.79E-09	0.00			2.60E-07	0.000	0.00	1
TOLUENE	2.00E-01	2.00E-01	1.10E-01	1.35E-03		1	2.81E-09	0.00			6.73E-08	0.000	0.00	0
TRICHLOROETHYLENE (TCE)	6.00E-03	6.00E-03	6.00E-03	3.00E-02		1	6.25E-08	0.00			1.83E-06	0.000	0.00	86
XYLENES, m & p	2.00E-01	2.00E-01	2.90E-02	4.80E-03	1.00E-01	1	9.99E-09	0.00	3.16E-09	0.00	1.56E-07	0.000	0.00	1
								0.000039		0.0000088		0.00032		100
											Total HI =	0.00037		

Note:
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
EPC = Exposure Point Concentration
HI = Hazard Index
HQ = Hazard Quotient;
mg/kg-day = milligrams per kilogram per day
RfC = Reference Concentration
RfD_d = Dermal Reference Dose;
RfD_o = Oral Reference Dose
RfD_i = Inhalation Reference Dose

Table C-61
Hypothetical Future Residential Scenario - Potential Excess Lifetime Cancer Risk
Surface Soil - Cooling Pond
Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation		Total Risk	%
Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC (mg/kg)	ABS_d	ABS_{gi}	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR		Contribution
BARIUM	D				9.38E+01		0	8.37E-05				6.04E-09			
LEAD	--				1.17E+02	0	1	1.05E-04				7.56E-09			
ALDRIN	B2	1.70E+01	1.70E+01	1.72E+01	1.83E-03	1.00E-01	1	1.63E-09	2.8E-08	5.16E-10	8.8E-09	1.18E-13	2.0E-12	3.6E-08	0
BETA BHC	C	1.80E+00	1.80E+00	1.80E+00	3.19E-03	4.00E-02	1	2.85E-09	5.1E-09	3.61E-10	6.5E-10	2.06E-13	3.7E-13	5.8E-09	0
DIELDRIN	B2	1.60E+01	1.60E+01	1.61E+01	5.63E-03	1.00E-01	1	5.02E-09	8.0E-08	1.59E-09	2.5E-08	3.62E-13	5.8E-12	1.1E-07	1
ENDRIN	D				3.40E-02	1.00E-01	1	3.03E-08		9.60E-09		2.19E-12			
ENDRIN ALDEHYDE	D				1.92E-03	1.00E-01	1	1.72E-09		5.43E-10		1.24E-13			
p,p'-DDD	B2	2.40E-01	2.40E-01		3.59E-01	3.00E-02	1	3.20E-07	7.7E-08	3.04E-08	7.3E-09	2.31E-11		8.4E-08	1
p,p'-DDE	B2	3.40E-01	3.40E-01		1.69E-02	3.00E-02	1	1.51E-08	5.1E-09	1.43E-09	4.9E-10	1.09E-12		5.6E-09	0
p,p'-DDT	B2	3.40E-01	3.40E-01	3.40E-01	1.80E-01	3.00E-02	1	1.61E-07	5.5E-08	1.52E-08	5.2E-09	1.16E-11	3.9E-12	6.0E-08	1
PCB-1260 (AROCHLOR 1260)	B2	2.00E+00	2.00E+00	2.00E+00	2.09E+00	1.40E-01	1	1.86E-06	**3.7E-06**	8.25E-07	**1.6E-06**	1.34E-10	2.7E-10	**5.4E-06**	46
2-METHYLNAPHTHALENE	--				1.17E-01	1.30E-01	1	1.04E-07		4.29E-08		7.52E-12			
ACENAPHTHENE	D				1.17E-01	1.30E-01	1	1.04E-07		4.29E-08		7.52E-12			
ACENAPHTHYLENE	--				1.19E-01	1.30E-01	1	1.06E-07		4.38E-08		7.68E-12			
ANTHRACENE	D				8.69E-01	1.30E-01	1	7.76E-07		3.19E-07		5.60E-11			
BENZO(a)ANTHRACENE	B2	7.30E-01	7.30E-01		6.25E-01	1.30E-01	1	5.58E-07	4.1E-07	2.30E-07	1.7E-07	4.03E-11		5.7E-07	5
BENZO(a)PYRENE	B2	7.30E+00	7.30E+00		3.49E-01	1.30E-01	1	3.11E-07	**2.3E-06**	1.28E-07	9.3E-07	2.25E-11		**3.2E-06**	28
BENZO(b)FLUORANTHENE	B2	7.30E-01	7.30E-01		7.35E-01	1.30E-01	1	6.56E-07	4.8E-07	2.70E-07	2.0E-07	4.73E-11		6.8E-07	6
BENZO(g,h,i)PERYLENE	--			1.60E+01	1.63E-01	1.30E-01	1	1.46E-07		5.99E-08		1.05E-11	1.7E-10	1.7E-10	0
BENZO(k)FLUORANTHENE	B2	7.30E-02	7.30E-02		7.26E-01	1.30E-01	1	6.48E-07	4.7E-08	2.67E-07	1.9E-08	4.68E-11		6.7E-08	1
bis(2-ETHYLHEXYL) PHTHALATE	--	1.40E-02	1.40E-02		7.00E+00	1.00E-01	1	6.25E-06	8.7E-08	1.98E-06	2.8E-08	4.51E-10		1.2E-07	1
CHRYSENE	B2	7.30E-03	7.30E-03		1.43E+00	1.30E-01	1	1.28E-06	9.3E-09	5.26E-07	3.8E-09	9.22E-11		1.3E-08	0
DIBENZ(a,h)ANTHRACENE	B2	7.30E+00	7.30E+00		1.08E-01	1.30E-01	1	9.68E-08	7.1E-07	3.98E-08	2.9E-07	6.99E-12		**1.0E-06**	**9**
DIBENZOFURAN	D				1.21E-01		1	1.08E-07				7.79E-12			
FLUORANTHENE	D				3.66E+00	1.30E-01	1	3.27E-06		1.34E-06		2.36E-10			
FLUORENE	D				1.05E-01	1.30E-01	1	9.38E-08		3.86E-08		6.77E-12			
INDENO(1,2,3-c,d)PYRENE	B2	7.30E-01	7.30E-01		2.63E-01	1.30E-01	1	2.34E-07	1.7E-07	9.64E-08	7.0E-08	1.69E-11		2.4E-07	2
PHENANTHRENE	D				1.98E+00	1.30E-01	1	1.76E-06		7.26E-07		1.27E-10			
PYRENE	D				4.49E+00	1.30E-01	1	4.01E-06		1.65E-06		2.89E-10			
1,2,4-TRIMETHYLBENZENE	--				9.70E-04		1	8.66E-10				4.20E-09			
1,3,5-TRIMETHYLBENZENE (MESITYLENE	--				2.13E-03		1	1.90E-09				2.26E-08			
2-CHLOROTOLUENE	D				1.00E-02		1	8.92E-09				1.51E-07			
ACETONE	D				1.67E-01		1	1.49E-07				1.13E-06			
METHYL ETHYL KETONE (2-BUTANONE)	D				4.14E-02		1	3.69E-08				1.81E-07			
NAPHTHALENE	C				3.05E-02	1.30E-01	1	2.72E-08		1.12E-08		5.99E-08			
n-PROPYLBENZENE	--				1.80E-01		1	1.61E-07				1.35E-06			
P-CYMENE (p-ISOPROPYLTOLUENE)	D				1.30E-01		1	1.16E-07				3.08E-06			
	Total Risk								**8.2E-06**		**3.4E-06**		4.5E-10		100
													Total Risk =	**1.2E-05**	

Note:
Cancer WOE Classifications:
Group A: Human carcinogen
Group B (B1, B2): Probable human carcinogen
Group C: Possible human carcinogen
Group D: Not classifiable
Group E: No evidence of carcinogenicity
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
ELCR = Excess Lifetime Cancer Risk
EPC = Exposure Point Concentration
mg/kg-day = milligrams per kilogram per day
SF_d = Dermal Slope Factor
SF_o = Oral Slope Factor
SF_i = Inhalation Slope Factor
WOE = Weight of Evidence

Table C-62
Hypothetical Future Residential Scenario - Potential Noncarcinogenic Risk
Surface Soil - Cooling Pond
Fort Richardson- Operable Unit E

Chemical	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC (mg/kg)	ABS_d	ABS_{gi}	Ingestion CDI (mg/kg-day)	Ingestion HQ	Dermal CDI (mg/kg-day)	Dermal HQ	Inhalation CDI (mg/kg-day)	Inhalation HQ	Total HI	% Contribution
BARIUM	7.00E-02	4.90E-03	1.43E-04	9.38E+01		0	1.95E-04	0.00			1.41E-08	0.000	0.00	43
LEAD				1.17E+02	0	1	2.44E-04				1.76E-08			
ALDRIN	3.00E-05	3.00E-05		1.83E-03	1.00E-01	1	3.80E-09	0.00	1.20E-09	0.00	2.74E-13		0.00	2
BETA BHC	2.00E-04	2.00E-04		3.19E-03	4.00E-02	1	6.65E-09	0.00	8.42E-10	0.00	4.80E-13		0.00	1
DIELDRIN	5.00E-05	5.00E-05		5.63E-03	1.00E-01	1	1.17E-08	0.00	3.71E-09	0.00	8.46E-13		0.00	5
ENDRIN	3.00E-04	3.00E-04		3.40E-02	1.00E-01	1	7.08E-08	0.00	2.24E-08	0.00	5.11E-12		0.00	5
ENDRIN ALDEHYDE	3.00E-04	3.00E-04		1.92E-03	1.00E-01	1	4.01E-09	0.00	1.27E-09	0.00	2.89E-13		0.00	0
p,p'-DDD				3.59E-01	3.00E-02	1	7.47E-07		7.09E-08		5.39E-11			
p,p'-DDE				1.69E-02	3.00E-02	1	3.53E-08		3.35E-09		2.54E-12			
p,p'-DDT	5.00E-04	5.00E-04		1.80E-01	3.00E-02	1	3.75E-07	0.00	3.56E-08	0.00	2.70E-11		0.00	12
PCB-1260 (AROCHLOR 1260)				2.09E+00	1.40E-01	1	4.34E-06		1.92E-06		3.14E-10			
2-METHYLNAPHTHALENE	9.00E-03	9.00E-03		1.17E-01	1.30E-01	1	2.43E-07	0.00	1.00E-07	0.00	1.76E-11		0.00	1
ACENAPHTHENE	6.00E-02	6.00E-02		1.17E-01	1.30E-01	1	2.43E-07	0.00	1.00E-07	0.00	1.75E-11		0.00	0
ACENAPHTHYLENE	6.00E-02	6.00E-02		1.19E-01	1.30E-01	1	2.48E-07	0.00	1.02E-07	0.00	1.79E-11		0.00	0
ANTHRACENE	3.00E-01	3.00E-01		8.69E-01	1.30E-01	1	1.81E-06	0.00	7.45E-07	0.00	1.31E-10		0.00	0
BENZO(a)ANTHRACENE				6.25E-01	1.30E-01	1	1.30E-06		5.36E-07		9.40E-11			
BENZO(a)PYRENE				3.49E-01	1.30E-01	1	7.26E-07		2.99E-07		5.24E-11			
BENZO(b)FLUORANTHENE				7.35E-01	1.30E-01	1	1.53E-06		6.29E-07		1.10E-10			
BENZO(g,h,i)PERYLENE				1.63E-01	1.30E-01	1	3.40E-07		1.40E-07		2.45E-11			
BENZO(k)FLUORANTHENE				7.26E-01	1.30E-01	1	1.51E-06		6.22E-07		1.09E-10			
bis(2-ETHYLHEXYL) PHTHALATE	2.00E-02	2.00E-02		7.00E+00	1.00E-01	1	1.46E-05	0.00	4.61E-06	0.00	1.05E-09		0.00	14
CHRYSENE				1.43E+00	1.30E-01	1	2.98E-06		1.23E-06		2.15E-10			
DIBENZ(a,h)ANTHRACENE				1.08E-01	1.30E-01	1	2.26E-07		9.29E-08		1.63E-11			
DIBENZOFURAN	4.00E-03	4.00E-03		1.21E-01		1	2.52E-07	0.00			1.82E-11		0.00	1
FLUORANTHENE	4.00E-02	4.00E-02		3.66E+00	1.30E-01	1	7.63E-06	0.00	3.14E-06	0.00	5.50E-10		0.00	4
FLUORENE	4.00E-02	4.00E-02		1.05E-01	1.30E-01	1	2.19E-07	0.00	9.01E-08	0.00	1.58E-11		0.00	0
INDENO(1,2,3-c,d)PYRENE				2.63E-01	1.30E-01	1	5.47E-07		2.25E-07		3.95E-11			
PHENANTHRENE	3.00E-01	3.00E-01		1.98E+00	1.30E-01	1	4.12E-06	0.00	1.69E-06	0.00	2.97E-10		0.00	0
PYRENE	3.00E-02	3.00E-02		4.49E+00	1.30E-01	1	9.35E-06	0.00	3.85E-06	0.00	6.75E-10		0.00	6
1,2,4-TRIMETHYLBENZENE	5.00E-02	5.00E-02	1.70E-03	9.70E-04		1	2.02E-09	0.00			9.79E-09	0.000	0.00	0
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	5.00E-02	5.00E-02	1.70E-03	2.13E-03		1	4.44E-09	0.00			5.27E-08	0.000	0.00	0
2-CHLOROTOLUENE	2.00E-02	2.00E-02	2.00E-02	1.00E-02		1	2.08E-08	0.00			3.52E-07	0.000	0.00	0
ACETONE	1.00E-01	1.00E-01	1.00E-01	1.67E-01		1	3.47E-07	0.00			2.63E-06	0.000	0.00	0
METHYL ETHYL KETONE (2-BUTANONE)	6.00E-01	6.00E-01	2.86E-01	4.14E-02		1	8.61E-08	0.00			4.23E-07	0.000	0.00	0
NAPHTHALENE	2.00E-02	2.00E-02	8.57E-04	3.05E-02	1.30E-01	1	6.35E-08	0.00	2.61E-08	0.00	1.40E-07	0.000	0.00	2
n-PROPYLBENZENE	4.00E-02	4.00E-02	4.00E-02	1.80E-01		1	3.75E-07	0.00			3.15E-06	0.000	0.00	1
P-CYMENE (p-ISOPROPYLTOLUENE)	1.00E-01	1.00E-01	1.10E-01	1.30E-01		1	2.71E-07	0.00			7.19E-06	0.000	0.00	1
								0.006		0.0007		0.0005		100
											Total HI =	0.007		

Note:
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
EPC = Exposure Point Concentration
HI = Hazard Index
HQ = Hazard Quotient;
mg/kg-day = milligrams per kilogram per day
RfC = Reference Concentration
RfD_d = Dermal Reference Dose;
RfD_o = Oral Reference Dose
RfD_i = Inhalation Reference Dose

Table C-63

Hypothetical Future Residential Scenario - Potential Excess Lifetime Cancer Risk

Surface Soil - Former Drum

Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation		Total Risk	%
Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC (mg/kg)	ABS_d	ABS_{gi}	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR		Contribution
BARIUM	D				1.90E+02		0	1.70E-04				1.23E-08			
IRON	--				2.78E+04	0	1	2.48E-02				1.79E-06			
LEAD	--				3.27E+01	0	1	2.92E-05				2.10E-09			
p,p'-DDT	B2	3.40E-01	3.40E-01	3.40E-01	5.88E-01	3.00E-02	1	5.25E-07	1.8E-07	4.98E-08	1.7E-08	3.79E-11	1.3E-11	2.0E-07	0
PCB-1260 (AROCHLOR 1260)	B2	2.00E+00	2.00E+00	2.00E+00	1.56E+01	1.40E-01	1	1.39E-05	**2.8E-05**	6.17E-06	**1.2E-05**	1.00E-09	2.0E-09	**4.0E-05**	**94**
BENZO(a)PYRENE	B2	7.30E+00	7.30E+00		1.97E-01	1.30E-01	1	1.76E-07	**1.3E-06**	7.24E-08	5.3E-07	1.27E-11		**1.8E-06**	**4**
BENZO(b)FLUORANTHENE	B2	7.30E-01	7.30E-01		3.59E-01	1.30E-01	1	3.20E-07	2.3E-07	1.32E-07	9.6E-08	2.31E-11		3.3E-07	1
BENZO(k)FLUORANTHENE	B2	7.30E-02	7.30E-02		3.24E-01	1.30E-01	1	2.89E-07	2.1E-08	1.19E-07	8.7E-09	2.09E-11		3.0E-08	0
CHRYSENE	B2	7.30E-03	7.30E-03		3.74E-01	1.30E-01	1	3.34E-07	2.4E-09	1.37E-07	1.0E-09	2.41E-11		3.4E-09	0
FLUORANTHENE	D				4.59E-01	1.30E-01	1	4.09E-07		1.68E-07		2.95E-11			
INDENO(1,2,3-c,d)PYRENE	B2	7.30E-01	7.30E-01		1.97E-01	1.30E-01	1	1.76E-07	1.3E-07	7.25E-08	5.3E-08	1.27E-11		1.8E-07	0
PYRENE	D				3.25E-01	1.30E-01	1	2.90E-07		1.19E-07		2.09E-11			
TOLUENE	D				6.00E-03		1	5.35E-09				1.28E-07			
	Total Risk								**3.0E-05**		**1.3E-05**		2.0E-09		100
													Total Risk =	**4.3E-05**	

Note:

Cancer WOE Classifications:

Group A: Human carcinogen

Group B (B1, B2): Probable human carcinogen

Group C: Possible human carcinogen

Group D: Not classifiable

Group E: No evidence of carcinogenicity

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

ELCR = Excess Lifetime Cancer Risk

EPC = Exposure Point Concentration

mg/kg-day = milligrams per kilogram per day

SF_d = Dermal Slope Factor

SF_o = Oral Slope Factor

SF_i = Inhalation Slope Factor

WOE = Weight of Evidence

Table C-64
Hypothetical Future Residential Scenario - Potential Noncarcinogenic Risk
Surface Soil - Former Drum
Fort Richardson- Operable Unit E

							Ingestion		Dermal		Inhalation			%
Chemical	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC (mg/kg)	ABS_d	ABS_{gi}	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ	Total HI	Contribution
BARIUM	7.00E-02	4.90E-03	1.43E-04	1.90E+02		0	3.97E-04	0.01			2.86E-08	0.000	0.01	3
IRON	3.00E-01	3.00E-01		2.78E+04	0	1	5.79E-02	0.19			4.18E-06		0.19	96
LEAD				3.27E+01	0	1	6.80E-05				4.91E-09			
p,p'-DDT	5.00E-04	5.00E-04		5.88E-01	3.00E-02	1	1.23E-06	0.00	1.16E-07	0.00	8.84E-11		0.00	1
PCB-1260 (AROCHLOR 1260)				1.56E+01	1.40E-01	1	3.25E-05		1.44E-05		2.34E-09			
BENZO(a)PYRENE				1.97E-01	1.30E-01	1	4.11E-07		1.69E-07		2.96E-11			
BENZO(b)FLUORANTHENE				3.59E-01	1.30E-01	1	7.47E-07		3.07E-07		5.39E-11			
BENZO(k)FLUORANTHENE				3.24E-01	1.30E-01	1	6.75E-07		2.78E-07		4.87E-11			
CHRYSENE				3.74E-01	1.30E-01	1	7.79E-07		3.20E-07		5.62E-11			
FLUORANTHENE	4.00E-02	4.00E-02		4.59E-01	1.30E-01	1	9.55E-07	0.00	3.93E-07	0.00	6.89E-11		0.00	0
INDENO(1,2,3-c,d)PYRENE				1.97E-01	1.30E-01	1	4.11E-07		1.69E-07		2.97E-11			
PYRENE	3.00E-02	3.00E-02		3.25E-01	1.30E-01	1	6.77E-07	0.00	2.78E-07	0.00	4.88E-11		0.00	0
TOLUENE	2.00E-01	2.00E-01	1.10E-01	6.00E-03		1	1.25E-08	0.00			2.99E-07	0.000	0.00	0
								0.20		0.0003		0.000		100
											Total HI =	0.20		

Note:
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
EPC = Exposure Point Concentration
HI = Hazard Index
HQ = Hazard Quotient;
mg/kg-day = milligrams per kilogram per day
RfC = Reference Concentration
RfD_d = Dermal Reference Dose;
RfD_o = Oral Reference Dose
RfD_i = Inhalation Reference Dose

Table C-65

Hypothetical Future Residential Scenario - Potential Excess Lifetime Cancer Risk

Surface Soil - Former Tank

Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation		Total Risk	%
Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC (mg/kg)	ABS_d	ABS_{gi}	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR		Contribution
DIELDRIN	B2	1.60E+01	1.60E+01	1.61E+01	6.00E-04	1.00E-01	1	5.35E-10	8.6E-09	1.69E-10	2.7E-09	3.86E-14	6.2E-13	1.1E-08	12
p,p'-DDE	B2	3.40E-01	3.40E-01		4.00E-04	3.00E-02	1	3.57E-10	1.2E-10	3.39E-11	1.2E-11	2.58E-14		1.3E-10	0
p,p'-DDT	B2	3.40E-01	3.40E-01	3.40E-01	7.00E-03	3.00E-02	1	6.25E-09	2.1E-09	5.93E-10	2.0E-10	4.51E-13	1.5E-13	2.3E-09	3
PCB-1260 (AROCHLOR 1260)	B2	2.00E+00	2.00E+00	2.00E+00	3.00E-02	1.40E-01	1	2.68E-08	5.4E-08	1.19E-08	2.4E-08	1.93E-12	3.9E-12	7.7E-08	83
bis(2-ETHYLHEXYL) PHTHALATE	--	1.40E-02	1.40E-02		1.00E-01	1.00E-01	1	8.92E-08	1.2E-09	2.82E-08	4.0E-10	6.44E-12		1.6E-09	2
CHRYSENE	B2	7.30E-03	7.30E-03		2.00E-02	1.30E-01	1	1.78E-08	1.3E-10	7.34E-09	5.4E-11	1.29E-12		1.8E-10	0
	Total Risk								6.6E-08		2.7E-08		4.6E-12		100
													Total Risk =	9.3E-08	

Note:

Cancer WOE Classifications:

Group A: Human carcinogen

Group B (B1, B2): Probable human carcinogen

Group C: Possible human carcinogen

Group D: Not classifiable

Group E: No evidence of carcinogenicity

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

ELCR = Excess Lifetime Cancer Risk

EPC = Exposure Point Concentration

mg/kg-day = milligrams per kilogram per day

SF_d = Dermal Slope Factor

SF_o = Oral Slope Factor

SF_i = Inhalation Slope Factor

WOE = Weight of Evidence

Table C-66

Hypothetical Future Residential Scenario - Potential Noncarcinogenic Risk

Surface Soil - Former Tank

Fort Richardson- Operable Unit E

Chemical	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC (mg/kg)	ABS_d	ABS_{gi}	Ingestion CDI (mg/kg-day)	Ingestion HQ	Dermal CDI (mg/kg-day)	Dermal HQ	Inhalation CDI (mg/kg-day)	Inhalation HQ	Total HI	% Contribution
DIELDRIN	5.00E-05	5.00E-05		6.00E-04	1.00E-01	1	1.25E-09	0.00	3.95E-10	0.00	9.02E-14		0.00	42
p,p'-DDE				4.00E-04	3.00E-02	1	8.33E-10		7.91E-11		6.01E-14			
p,p'-DDT	5.00E-04	5.00E-04		7.00E-03	3.00E-02	1	1.46E-08	0.00	1.38E-09	0.00	1.05E-12		0.00	41
PCB-1260 (AROCHLOR 1260)				3.00E-02	1.40E-01	1	6.25E-08		2.77E-08		4.51E-12			
bis(2-ETHYLHEXYL) PHTHALATE	2.00E-02	2.00E-02		1.00E-01	1.00E-01	1	2.08E-07	0.00	6.59E-08	0.00	1.50E-11		0.00	17
CHRYSENE				2.00E-02	1.30E-01	1	4.16E-08		1.71E-08		3.01E-12			
								0.000065		0.000014				100

Total HI = 0.000079

Note:

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

EPC = Exposure Point Concentration

HI = Hazard Index

HQ = Hazard Quotient;

mg/kg-day = milligrams per kilogram per day

RfC = Reference Concentration

RfD_d = Dermal Reference Dose;

RfD_o = Oral Reference Dose

RfD_i = Inhalation Reference Dose

Table C-67

Hypothetical Future Residential Scenario - Potential Excess Lifetime Cancer Risk

Surface Soil - Periphery Road

Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation		Total Risk	%
Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC (mg/kg)	ABS_d	ABS_{gi}	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR		Contribution
Total TCDD-Mammal	--	1.50E+05	1.50E+05	1.50E+05	1.15E-05	3.00E-02	1	1.02E-11	**1.5E-06**	9.73E-13	1.5E-07	7.40E-16	1.1E-10	**1.7E-06**	27
PCB-1260 (AROCHLOR 1260)	B2	2.00E+00	2.00E+00	2.00E+00	1.74E+00	1.40E-01	1	1.55E-06	**3.1E-06**	6.87E-07	**1.4E-06**	1.12E-10	2.2E-10	**4.5E-06**	73
	Total Risk								**4.6E-06**		**1.5E-06**		3.3E-10		100
													Total Risk =		**6.2E-06**

Note:

Cancer WOE Classifications:

- Group A: Human carcinogen
- Group B (B1, B2): Probable human carcinogen
- Group C: Possible human carcinogen
- Group D: Not classifiable
- Group E: No evidence of carcinogenicity

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

ELCR = Excess Lifetime Cancer Risk

EPC = Exposure Point Concentration

mg/kg-day = milligrams per kilogram per day

SF_d = Dermal Slope Factor

SF_o = Oral Slope Factor

SF_i = Inhalation Slope Factor

WOE = Weight of Evidence

Table C-68
Hypothetical Future Residential Scenario - Potential Noncarcinogenic Risk
Surface Soil - Periphery Road
Fort Richardson- Operable Unit E

Chemical	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC (mg/kg)	ABS_d	ABS_{gi}	Ingestion CDI (mg/kg-day)	Ingestion HQ	Dermal CDI (mg/kg-day)	Dermal HQ	Inhalation CDI (mg/kg-day)	Inhalation HQ	Total HI	% Contribution
Total TCDD-Mammal				1.15E-05	3.00E-02	1	2.39E-11		2.27E-12		1.73E-15			#DIV/0!
PCB-1260 (AROCHLOR 1260)				1.74E+00	1.40E-01	1	3.62E-06		1.60E-06		2.61E-10			#DIV/0!
														#DIV/0!
											Total HI =			

Note:
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
EPC = Exposure Point Concentration
HI = Hazard Index
HQ = Hazard Quotient;
mg/kg-day = milligrams per kilogram per day
RfC = Reference Concentration
RfD_d = Dermal Reference Dose;
RfD_o = Oral Reference Dose
RfD_i = Inhalation Reference Dose

Table C-69

Hypothetical Future Residential Scenario - Potential Excess Lifetime Cancer Risk

Surface Soil - Soil Stockpile

Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation		Total Risk	%
Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC (mg/kg)	ABS_d	ABS_{gi}	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR		Contribution
Total TCDD-Mammal	--	1.50E+05	1.50E+05	1.50E+05	1.74E-06	3.00E-02	1	1.55E-12	2.3E-07	1.47E-13	2.2E-08	1.12E-16	1.7E-11	2.6E-07	21
PCB-1260 (AROCHLOR 1260)	B2	2.00E+00	2.00E+00	2.00E+00	3.71E-01	1.40E-01	1	3.31E-07	6.6E-07	1.47E-07	2.9E-07	2.39E-11	4.8E-11	9.5E-07	79
	Total Risk								8.9E-07		3.2E-07		6.5E-11		100
													Total Risk =		**1.2E-06**

Note:

Cancer WOE Classifications:

Group A: Human carcinogen

Group B (B1, B2): Probable human carcinogen

Group C: Possible human carcinogen

Group D: Not classifiable

Group E: No evidence of carcinogenicity

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

ELCR = Excess Lifetime Cancer Risk

EPC = Exposure Point Concentration

mg/kg-day = milligrams per kilogram per day

SF_d = Dermal Slope Factor

SF_o = Oral Slope Factor

SF_i = Inhalation Slope Factor

WOE = Weight of Evidence

Table C-70
Hypothetical Future Residential Scenario - Potential Noncarcinogenic Risk
Surface Soil - Soil Stockpile
Fort Richardson- Operable Unit E

Chemical	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC (mg/kg)	ABS_d	ABS_{gi}	Ingestion CDI (mg/kg-day)	Ingestion HQ	Dermal CDI (mg/kg-day)	Dermal HQ	Inhalation CDI (mg/kg-day)	Inhalation HQ	Total HI	% Contribution
Total TCDD-Mammal				1.74E-06	3.00E-02	1	3.62E-12		3.44E-13		2.61E-16			#DIV/0!
PCB-1260 (AROCHLOR 1260)				3.71E-01	1.40E-01	1	7.72E-07		3.42E-07		5.57E-11			#DIV/0!
														#DIV/0!

Total HI =

Note:
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
EPC = Exposure Point Concentration
HI = Hazard Index
HQ = Hazard Quotient;
mg/kg-day = milligrams per kilogram per day
RfC = Reference Concentration
RfD_d = Dermal Reference Dose;
RfD_o = Oral Reference Dose
RfD_i = Inhalation Reference Dose

Table C-71

Hypothetical Future Residential Scenario - Potential Excess Lifetime Cancer Risk

Surface Soil - Transformer Mounting

Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation		Total Risk	%
Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC (mg/kg)	ABS_d	ABS_{gi}	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR		Contribution
Total TCDD-Mammal	--	1.50E+05	1.50E+05	1.50E+05	1.68E-05	3.00E-02	1	1.50E-11	**2.3E-06**	1.43E-12	2.1E-07	1.08E-15	1.6E-10	**2.5E-06**	9
PCB-1260 (AROCHLOR 1260)	B2	2.00E+00	2.00E+00	2.00E+00	9.83E+00	1.40E-01	1	8.77E-06	**1.8E-05**	3.88E-06	**7.8E-06**	6.33E-10	1.3E-09	**2.5E-05**	91
	Total Risk								**2.0E-05**		**8.0E-06**		1.4E-09		100
													Total Risk =	**2.8E-05**	

Note:

Cancer WOE Classifications:

Group A: Human carcinogen

Group B (B1, B2): Probable human carcinogen

Group C: Possible human carcinogen

Group D: Not classifiable

Group E: No evidence of carcinogenicity

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

ELCR = Excess Lifetime Cancer Risk

EPC = Exposure Point Concentration

mg/kg-day = milligrams per kilogram per day

SF_d = Dermal Slope Factor

SF_o = Oral Slope Factor

SF_i = Inhalation Slope Factor

WOE = Weight of Evidence

Table C-72

Hypothetical Future Residential Scenario - Potential Noncarcinogenic Risk

Surface Soil - Transformer Mounting

Fort Richardson- Operable Unit E

Chemical	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC (mg/kg)	ABS_d	ABS_{gi}	Ingestion CDI (mg/kg-day)	Ingestion HQ	Dermal CDI (mg/kg-day)	Dermal HQ	Inhalation CDI (mg/kg-day)	Inhalation HQ	Total HI	% Contribution
Total TCDD-Mammal				1.68E-05	3.00E-02	1	3.50E-11		3.33E-12		2.53E-15			#DIV/0!
PCB-1260 (AROCHLOR 1260)				9.83E+00	1.40E-01	1	2.05E-05		9.06E-06		1.48E-09			#DIV/0!
														#DIV/0!
												Total HI =		

Note:
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
EPC = Exposure Point Concentration
HI = Hazard Index
HQ = Hazard Quotient;
mg/kg-day = milligrams per kilogram per day
RfC = Reference Concentration
RfD_d = Dermal Reference Dose;
RfD_o = Oral Reference Dose
RfD_i = Inhalation Reference Dose

Table C-73
Onsite Excavation Worker Scenario - Potential Excess Lifetime Cancer Risk
Subsurface Soil - All Building 35-752 Areas
Fort Richardson - Operable Unit E

Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC (mg/kg)	ABS_d	ABS_{gi}	Ingestion CDI (mg/kg-day)	Ingestion ELCR	Dermal CDI (mg/kg-day)	Dermal ELCR	Inhalation CDI (mg/kg-day)	Inhalation ELCR	Total ELCR	% Contribution
1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	B2	1.50E+03	1.50E+03	1.50E+03	3.98E-05	3.00E-02	1.00E+00	9.70E-13	1.5E-09	5.82E-14	8.7E-11	4.52E-17	6.8E-14	1.5E-09	0
1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN	B2	1.50E+03	1.50E+03	1.50E+03	2.39E-04	3.00E-02	1.00E+00	5.81E-12	8.7E-09	3.49E-13	5.2E-10	2.71E-16	4.1E-13	9.2E-09	2
1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	B2	1.50E+03	1.50E+03	1.50E+03	8.91E-06	3.00E-02	1.00E+00	2.17E-13	3.3E-10	1.30E-14	2.0E-11	1.01E-17	1.5E-14	3.4E-10	0
1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	B2	1.50E+04	1.50E+04	1.50E+04	1.99E-05	3.00E-02	1.00E+00	4.84E-13	7.3E-09	2.90E-14	4.4E-10	2.26E-17	3.4E-13	7.7E-09	2
1,2,3,4,7,8-HEXACHLORODIBENZO-p-DIOXIN	B2	1.50E+04	1.50E+04	1.50E+04	1.62E-06	3.00E-02	1.00E+00	3.93E-14	5.9E-10	2.36E-15	3.5E-11	1.83E-18	2.8E-14	6.3E-10	0
1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	B2	1.50E+04	1.50E+04	1.50E+04	2.99E-06	3.00E-02	1.00E+00	7.29E-14	1.1E-09	4.38E-15	6.6E-11	3.40E-18	5.1E-14	1.2E-09	0
1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	B2	1.50E+04	1.50E+04	1.50E+04	3.49E-06	3.00E-02	1.00E+00	8.50E-14	1.3E-09	5.10E-15	7.7E-11	3.96E-18	5.9E-14	1.4E-09	0
1,2,3,7,8,9-HEXACHLORODIBENZOFURAN	B2	1.50E+04	1.50E+04	1.50E+04	5.00E-06	3.00E-02	1.00E+00	1.22E-13	1.8E-09	7.31E-15	1.1E-10	5.68E-18	8.5E-14	1.9E-09	0
1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	B2	1.50E+04	1.50E+04	1.50E+04	2.09E-06	3.00E-02	1.00E+00	5.08E-14	7.6E-10	3.05E-15	4.6E-11	2.37E-18	3.6E-14	8.1E-10	0
1,2,3,7,8-PENTACHLORODIBENZOFURAN	B2	7.50E+03	7.50E+03	7.50E+03	7.52E-05	3.00E-02	1.00E+00	1.83E-12	1.4E-08	1.10E-13	8.2E-10	8.54E-17	6.4E-13	1.5E-08	4
1,2,3,7,8-PENTACHLORODIBENZO-p-DIOXIN	B2	1.50E+05	1.50E+05	1.50E+05	1.00E-05	3.00E-02	1.00E+00	2.44E-13	3.7E-08	1.46E-14	2.2E-09	1.14E-17	1.7E-12	3.9E-08	9
2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	B2	1.50E+04	1.50E+04	1.50E+04	2.58E-06	3.00E-02	1.00E+00	6.28E-14	9.4E-10	3.77E-15	5.7E-11	2.93E-18	4.4E-14	1.0E-09	0
2,3,4,7,8-PENTACHLORODIBENZOFURAN	B2	7.50E+04	7.50E+04	7.50E+04	2.94E-06	3.00E-02	1.00E+00	7.15E-14	5.4E-09	4.29E-15	3.2E-10	3.33E-18	2.5E-13	5.7E-09	1
2,3,7,8-TETRACHLORODIBENZOFURAN	B2	1.50E+04	1.50E+04	1.50E+04	1.93E-06	3.00E-02	1.00E+00	4.70E-14	7.0E-10	2.82E-15	4.2E-11	2.19E-18	3.3E-14	7.5E-10	0
2,3,7,8-TETRACHLORODIBENZO-p-DIOXIN	B2	1.50E+05	1.50E+05	1.50E+05	5.00E-06	3.00E-02	1.00E+00	1.22E-13	1.8E-08	7.31E-15	1.1E-09	5.68E-18	8.5E-13	1.9E-08	5
OCTACHLORODIBENZOFURAN	B2	1.50E+01	1.50E+01	1.50E+01	1.76E-04	3.00E-02	1.00E+00	4.29E-12	6.4E-11	2.58E-13	3.9E-12	2.00E-16	3.0E-15	6.8E-11	0
OCTACHLORODIBENZO-p-DIOXIN	B2	1.50E+01	1.50E+01	1.50E+01	2.77E-03	3.00E-02	1.00E+00	6.75E-11	1.0E-09	4.05E-12	6.1E-11	3.15E-15	4.7E-14	1.1E-09	0
Total TCDD-Mammal	--	1.50E+05	1.50E+05	1.50E+05	5.73E-06	3.00E-02	1.00E+00	1.40E-13	2.1E-08	8.38E-15	1.3E-09	6.51E-18	9.8E-13	2.2E-08	5
IRON	--				2.80E+04	0	1.00E+00	6.81E-04				3.18E-08			
LEAD	--				3.35E+01	0	1.00E+00	8.15E-07				3.80E-11			
ALDRIN	B2	1.70E+01	1.70E+01	1.72E+01	3.35E-03	1.00E-01	1.00E+00	8.15E-11	1.4E-09	1.63E-11	2.8E-10	3.80E-15	6.5E-14	1.7E-09	0
BETA BHC	C	1.80E+00	1.80E+00	1.80E+00	9.98E-03	4.00E-02	1.00E+00	2.43E-10	4.4E-10	1.94E-11	3.5E-11	1.13E-14	2.0E-14	4.7E-10	0
DIELDRIN	B2	1.60E+01	1.60E+01	1.61E+01	9.74E-03	1.00E-01	1.00E+00	2.37E-10	3.8E-09	4.74E-11	7.6E-10	1.11E-14	1.8E-13	4.6E-09	1
ENDRIN	D				2.10E-02	1.00E-01	1.00E+00	5.11E-10		1.02E-10		2.38E-14			
ENDRIN ALDEHYDE	D				5.16E-02	1.00E-01	1.00E+00	1.26E-09		2.51E-10		5.86E-14			
p,p'-DDD	B2	2.40E-01	2.40E-01		7.95E-02	3.00E-02	1.00E+00	1.94E-09	4.6E-10	1.16E-10	2.8E-11	9.02E-14		4.9E-10	0
p,p'-DDE	B2	3.40E-01	3.40E-01		1.42E-02	3.00E-02	1.00E+00	3.46E-10	1.2E-10	2.07E-11	7.1E-12	1.61E-14		1.2E-10	0
p,p'-DDT	B2	3.40E-01	3.40E-01	3.40E-01	5.21E-02	3.00E-02	1.00E+00	1.27E-09	4.3E-10	7.61E-11	2.6E-11	5.91E-14	2.0E-14	4.6E-10	0
PCB-1260 (Aroclor 1260)	B2	2.00E+00	2.00E+00	2.00E+00	5.06E+00	1.40E-01	1.00E+00	1.23E-07	2.5E-07	3.45E-08	6.9E-08	5.74E-12	1.1E-11	3.2E-07	77
2-METHYLNAPHTHALENE	--				1.08E-01	1.30E-01	1.00E+00	2.64E-09		6.85E-10		1.23E-13			
ACENAPHTHENE	D				1.08E-01	1.30E-01	1.00E+00	2.62E-09		6.82E-10		1.22E-13			
ACENAPHTHYLENE	--				1.07E-01	1.30E-01	1.00E+00	2.61E-09		6.78E-10		1.22E-13			
ANTHRACENE	D				1.47E-01	1.30E-01	1.00E+00	3.59E-09		9.33E-10		1.67E-13			
BENZO(a)ANTHRACENE	B2	7.30E-01	7.30E-01		1.50E-01	1.30E-01	1.00E+00	3.66E-09	2.7E-09	9.53E-10	7.0E-10	1.71E-13		3.4E-09	1
BENZO(a)PYRENE	B2	7.30E+00	7.30E+00		1.29E-01	1.30E-01	1.00E+00	3.14E-09	2.3E-08	8.17E-10	6.0E-09	1.46E-13		2.9E-08	7
BENZO(b)FLUORANTHENE	B2	7.30E-01	7.30E-01		1.98E-01	1.30E-01	1.00E+00	4.83E-09	3.5E-09	1.26E-09	9.2E-10	2.25E-13		4.4E-09	1
BENZO(g,h,i)PERYLENE	--			1.60E+01	1.12E-01	1.30E-01	1.00E+00	2.73E-09		7.11E-10		1.27E-13	2.0E-12	2.0E-12	0
BENZO(k)FLUORANTHENE	B2	7.30E-02	7.30E-02		1.78E-01	1.30E-01	1.00E+00	4.34E-09	3.2E-10	1.13E-09	8.2E-11	2.02E-13		4.0E-10	0
BENZYL BUTYL PHTHALATE	C				1.04E-01	1.00E-01	1.00E+00	2.53E-09		5.07E-10		1.18E-13			
bis(2-ETHYLHEXYL) PHTHALATE	--	1.40E-02	1.40E-02		8.60E-01	1.00E-01	1.00E+00	2.09E-08	2.9E-10	4.19E-09	5.9E-11	9.76E-13		3.5E-10	0
CHRYSENE	B2	7.30E-03	7.30E-03		2.67E-01	1.30E-01	1.00E+00	6.51E-09	4.7E-11	1.69E-09	1.2E-11	3.03E-13		6.0E-11	0
DIBENZ(a,h)ANTHRACENE	B2	7.30E+00	7.30E+00		1.04E-01	1.30E-01	1.00E+00	2.53E-09	1.8E-08	6.59E-10	4.8E-09	1.18E-13		2.3E-08	6
DIBENZOFURAN	D				1.08E-01		1.00E+00	2.62E-09				1.22E-13			
DI-n-BUTYL PHTHALATE	D				1.53E-01	1.00E-01	1.00E+00	3.73E-09		7.46E-10		1.74E-13			
DI-n-OCTYLPHTHALATE	D				1.83E-01	1.00E-01	1.00E+00	4.45E-09		8.89E-10		2.07E-13			
FLUORANTHENE	D				6.88E-01	1.30E-01	1.00E+00	1.68E-08		4.36E-09		7.81E-13			
FLUORENE	D				1.05E-01	1.30E-01	1.00E+00	2.55E-09		6.63E-10		1.19E-13			
INDENO(1,2,3-c,d)PYRENE	B2	7.30E-01	7.30E-01		1.17E-01	1.30E-01	1.00E+00	2.86E-09	2.1E-09	7.43E-10	5.4E-10	1.33E-13		2.6E-09	1
PHENANTHRENE	D				3.55E-01	1.30E-01	1.00E+00	8.64E-09		2.25E-09		4.03E-13			
PYRENE	D				6.88E-01	1.30E-01	1.00E+00	1.67E-08		4.35E-09		7.81E-13			
1,1,1-TRICHLOROETHANE	D				2.43E-03		1.00E+00	5.93E-11				1.62E-09			

Table C-73
Onsite Excavation Worker Scenario - Potential Excess Lifetime Cancer Risk
Subsurface Soil - All Building 35-752 Areas
Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation			%
Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC (mg/kg)	ABS_d	ABS_{gi}	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	Total ELCR	Contribution
1,2,4-TRICHLOROBENZENE	D				2.50E-02		1.00E+00	6.09E-10				8.56E-10			
1,2,4-TRIMETHYLBENZENE	--				6.72E-03		1.00E+00	1.64E-10				5.04E-10			
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	--				6.05E-03		1.00E+00	1.47E-10				1.11E-09			
1,4-DICHLOROBENZENE	--	2.40E-02	2.40E-02	2.20E-02	2.96E-03		1.00E+00	7.20E-11	1.7E-12			3.37E-10	7.4E-12	9.1E-12	0
2-CHLOROTOLUENE	D				6.12E-03		1.00E+00	1.49E-10				1.60E-09			
ACETONE	D				6.77E-02		1.00E+00	1.65E-09				7.97E-09			
cis-1,2-DICHLOROETHYLENE	D				6.84E-01		1.00E+00	1.67E-08				3.48E-07			
ETHYLBENZENE	D				2.35E-03		1.00E+00	5.72E-11				6.42E-10			
METHYL ETHYL KETONE (2-BUTANONE)	D				1.80E-02		1.00E+00	4.37E-10				1.36E-09			
METHYLENE CHLORIDE	B2	7.50E-03	7.50E-03	1.65E-03	1.25E-02		1.00E+00	3.05E-10	2.3E-12			7.42E-09	1.2E-11	1.4E-11	0
NAPHTHALENE	C				6.84E-03	1.30E-01	1.00E+00	1.67E-10		4.33E-11		2.33E-10			
n-PROPYLBENZENE	--				1.81E-02		1.00E+00	4.41E-10				2.36E-09			
P-CYMENE (p-ISOPROPYLTOLUENE)	D				1.26E-02		1.00E+00	3.08E-10				5.20E-09			
TETRACHLOROETHYLENE (PCE)	C-B2	5.20E-02	5.20E-02	1.00E-02	1.76E-03		1.00E+00	4.28E-11	2.2E-12			1.02E-09	1.0E-11	1.2E-11	0
TOLUENE	D				4.10E-03		1.00E+00	9.99E-11				1.52E-09			
trans-1,2-DICHLOROETHENE	--				1.61E-02		1.00E+00	3.92E-10				1.02E-08			
TRICHLOROETHYLENE (TCE)	B2	1.10E-02	1.10E-02	6.00E-03	1.39E-01		1.00E+00	3.39E-09	3.7E-11			6.30E-08	3.8E-10	4.2E-10	0
XYLENES, m & p	D				7.50E-03	1.00E-01	1.00E+00	1.83E-10		3.65E-11		1.81E-09			
XYLENES, TOTAL	D				5.43E-03	1.00E-01	1.00E+00	1.32E-10		2.65E-11		1.31E-09			
Total Risk									3.2E-07		8.4E-08		4.2E-10		100
												Total Risk =	4.1E-07		

Note:
Cancer WOE Classifications:
Group A: Human carcinogen
Group B (B1, B2): Probable human carcinogen
Group C: Possible human carcinogen
Group D: Not classifiable
Group E: No evidence of carcinogenicity
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
ELCR = Excess Lifetime Cancer Risk
EPC = Exposure Point Concentration
mg/kg-day = milligrams per kilogram per day
SF_d = Dermal Slope Factor
SF_o = Oral Slope Factor
SF_i = Inhalation Slope Factor
WOE = Weight of Evidence

Table C-74
Onsite Excavation Worker Scenario - Potential Noncarcinogenic Risk
Subsurface Soil - All Building 35-752 Areas
Fort Richardson - Operable Unit E

Chemical	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC (mg/kg)	ABS_d	ABS_{gi}	Ingestion CDI (mg/kg-day)	Ingestion HQ	Dermal CDI (mg/kg-day)	Dermal HQ	Inhalation CDI (mg/kg-day)	Inhalation HQ	Total HI	% Contribution
1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN				3.98E-05	3.00E-02	1.00E+00	1.03E-11		6.17E-13		4.80E-16			
1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN				2.39E-04	3.00E-02	1.00E+00	6.16E-11		3.70E-12		2.87E-15			
1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN				8.91E-06	3.00E-02	1.00E+00	2.30E-12		1.38E-13		1.07E-16			
1,2,3,4,7,8-HEXACHLORODIBENZOFURAN				1.99E-05	3.00E-02	1.00E+00	5.13E-12		3.08E-13		2.39E-16			
1,2,3,4,7,8-HEXACHLORODIBENZO-p-DIOXIN				1.62E-06	3.00E-02	1.00E+00	4.17E-13		2.50E-14		1.95E-17			
1,2,3,6,7,8-HEXACHLORODIBENZOFURAN				2.99E-06	3.00E-02	1.00E+00	7.73E-13		4.64E-14		3.61E-17			
1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN				3.49E-06	3.00E-02	1.00E+00	9.02E-13		5.41E-14		4.20E-17			
1,2,3,7,8,9-HEXACHLORODIBENZOFURAN				5.00E-06	3.00E-02	1.00E+00	1.29E-12		7.75E-14		6.02E-17			
1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN				2.09E-06	3.00E-02	1.00E+00	5.39E-13		3.23E-14		2.51E-17			
1,2,3,7,8-PENTACHLORODIBENZOFURAN				7.52E-05	3.00E-02	1.00E+00	1.94E-11		1.17E-12		9.06E-16			
1,2,3,7,8-PENTACHLORODIBENZO-p-DIOXIN				1.00E-05	3.00E-02	1.00E+00	2.58E-12		1.55E-13		1.20E-16			
2,3,4,6,7,8-HEXACHLORODIBENZOFURAN				2.58E-06	3.00E-02	1.00E+00	6.67E-13		4.00E-14		3.11E-17			
2,3,4,7,8-PENTACHLORODIBENZOFURAN				2.94E-06	3.00E-02	1.00E+00	7.58E-13		4.55E-14		3.54E-17			
2,3,7,8-TETRACHLORODIBENZOFURAN				1.93E-06	3.00E-02	1.00E+00	4.98E-13		2.99E-14		2.32E-17			
2,3,7,8-TETRACHLORODIBENZO-p-DIOXIN				5.00E-06	3.00E-02	1.00E+00	1.29E-12		7.75E-14		6.02E-17			
OCTACHLORODIBENZOFURAN				1.76E-04	3.00E-02	1.00E+00	4.55E-11		2.73E-12		2.12E-15			
OCTACHLORODIBENZO-p-DIOXIN				2.77E-03	3.00E-02	1.00E+00	7.16E-10		4.30E-11		3.34E-14			
Total TCDD-Mammal				5.73E-06	3.00E-02	1.00E+00	1.48E-12		8.89E-14		6.90E-17			
IRON	3.00E-01	3.00E-01		2.80E+04	0	1.00E+00	7.22E-03	0.02			3.37E-07		0.02	97
LEAD				3.35E+01	0	1.00E+00	8.64E-06				4.03E-10			
ALDRIN	3.00E-05	3.00E-05		3.35E-03	1.00E-01	1.00E+00	8.64E-10	0.00	1.73E-10	0.0000	4.03E-14		0.00	0
BETA BHC	2.00E-04	2.00E-04		9.98E-03	4.00E-02	1.00E+00	2.58E-09	0.00	2.06E-10	0.0000	1.20E-13		0.00	0
DIELDRIN	5.00E-05	5.00E-05		9.74E-03	1.00E-01	1.00E+00	2.52E-09	0.00	5.03E-10	0.0000	1.17E-13		0.00	0
ENDRIN	3.00E-04	3.00E-04		2.10E-02	1.00E-01	1.00E+00	5.42E-09	0.00	1.08E-09	0.0000	2.53E-13		0.00	0
ENDRIN ALDEHYDE	3.00E-04	3.00E-04		5.16E-02	1.00E-01	1.00E+00	1.33E-08	0.00	2.67E-09	0.0000	6.21E-13		0.00	0
p,p'-DDD				7.95E-02	3.00E-02	1.00E+00	2.05E-08		1.23E-09		9.57E-13			
p,p'-DDE				1.42E-02	3.00E-02	1.00E+00	3.67E-09		2.20E-10		1.71E-13			
p,p'-DDT	5.00E-04	5.00E-04		5.21E-02	3.00E-02	1.00E+00	1.35E-08	0.00	8.07E-10	0.0000	6.27E-13		0.00	0
PCB-1260 (Aroclor 1260)				5.06E+00	1.40E-01	1.00E+00	1.31E-06		3.66E-07		6.09E-11			
2-METHYLNAPHTHALENE	9.00E-03	9.00E-03		1.08E-01	1.30E-01	1.00E+00	2.80E-08	0.00	7.27E-09	0.0000	1.30E-12		0.00	0
ACENAPHTHENE	6.00E-02	6.00E-02		1.08E-01	1.30E-01	1.00E+00	2.78E-08	0.00	7.23E-09	0.0000	1.30E-12		0.00	0
ACENAPHTHYLENE	6.00E-02	6.00E-02		1.07E-01	1.30E-01	1.00E+00	2.77E-08	0.00	7.20E-09	0.0000	1.29E-12		0.00	0
ANTHRACENE	3.00E-01	3.00E-01		1.47E-01	1.30E-01	1.00E+00	3.81E-08	0.00	9.90E-09	0.0000	1.77E-12		0.00	0
BENZO(a)ANTHRACENE				1.50E-01	1.30E-01	1.00E+00	3.89E-08		1.01E-08		1.81E-12			
BENZO(a)PYRENE				1.29E-01	1.30E-01	1.00E+00	3.33E-08		8.66E-09		1.55E-12			
BENZO(b)FLUORANTHENE				1.98E-01	1.30E-01	1.00E+00	5.13E-08		1.33E-08		2.39E-12			
BENZO(g,h,i)PERYLENE				1.12E-01	1.30E-01	1.00E+00	2.90E-08		7.54E-09		1.35E-12			
BENZO(k)FLUORANTHENE				1.78E-01	1.30E-01	1.00E+00	4.60E-08		1.20E-08		2.15E-12			
BENZYL BUTYL PHTHALATE	2.00E-01	2.00E-01		1.04E-01	1.00E-01	1.00E+00	2.69E-08	0.00	5.37E-09	0.0000	1.25E-12		0.00	0
bis(2-ETHYLHEXYL) PHTHALATE	2.00E-02	2.00E-02		8.60E-01	1.00E-01	1.00E+00	2.22E-07	0.00	4.44E-08	0.0000	1.04E-11		0.00	0
CHRYSENE				2.67E-01	1.30E-01	1.00E+00	6.90E-08		1.79E-08		3.22E-12			
DIBENZ(a,h)ANTHRACENE				1.04E-01	1.30E-01	1.00E+00	2.69E-08		6.99E-09		1.25E-12			
DIBENZOFURAN	4.00E-03	4.00E-03		1.08E-01		1.00E+00	2.78E-08	0.00			1.30E-12		0.00	0
DI-n-BUTYL PHTHALATE	1.00E-01	1.00E-01		1.53E-01	1.00E-01	1.00E+00	3.95E-08	0.00	7.91E-09	0.0000	1.84E-12		0.00	0
DI-n-OCTYLPHTHALATE	4.00E-02	4.00E-02		1.83E-01	1.00E-01	1.00E+00	4.72E-08	0.00	9.43E-09	0.0000	2.20E-12		0.00	0
FLUORANTHENE	4.00E-02	4.00E-02		6.88E-01	1.30E-01	1.00E+00	1.78E-07	0.00	4.62E-08	0.0000	8.28E-12		0.00	0
FLUORENE	4.00E-02	4.00E-02		1.05E-01	1.30E-01	1.00E+00	2.71E-08	0.00	7.03E-09	0.0000	1.26E-12		0.00	0
INDENO(1,2,3-c,d)PYRENE				1.17E-01	1.30E-01	1.00E+00	3.03E-08		7.88E-09		1.41E-12			
PHENANTHRENE	3.00E-01	3.00E-01		3.55E-01	1.30E-01	1.00E+00	9.16E-08	0.00	2.38E-08	0.0000	4.27E-12		0.00	0
PYRENE	3.00E-02	3.00E-02		6.88E-01	1.30E-01	1.00E+00	1.78E-07	0.00	4.62E-08	0.0000	8.28E-12		0.00	0
1,1,1-TRICHLOROETHANE	2.80E-01	2.80E-01	6.30E-01	2.43E-03		1.00E+00	6.29E-10	0.00			1.72E-08	0.00	0.00	0

Table C-74
Onsite Excavation Worker Scenario - Potential Noncarcinogenic Risk
Subsurface Soil - All Building 35-752 Areas
Fort Richardson - Operable Unit E

Chemical	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC (mg/kg)	ABS_d	ABS_{gi}	Ingestion CDI (mg/kg-day)	Ingestion HQ	Dermal CDI (mg/kg-day)	Dermal HQ	Inhalation CDI (mg/kg-day)	Inhalation HQ	Total HI	% Contribution
1,2,4-TRICHLOROBENZENE	1.00E-02	1.00E-02	5.70E-02	2.50E-02		1.00E+00	6.46E-09	0.00			9.07E-09	0.00	0.00	0
1,2,4-TRIMETHYLBENZENE	5.00E-02	5.00E-02	1.70E-03	6.72E-03		1.00E+00	1.74E-09	0.00			5.35E-09	0.00	0.00	0
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	5.00E-02	5.00E-02	1.70E-03	6.05E-03		1.00E+00	1.56E-09	0.00			1.18E-08	0.00	0.00	0
1,4-DICHLOROBENZENE	3.00E-02	3.00E-02	2.29E-01	2.96E-03		1.00E+00	7.64E-10	0.00			3.57E-09	0.00	0.00	0
2-CHLOROTOLUENE	2.00E-02	2.00E-02	2.00E-02	6.12E-03		1.00E+00	1.58E-09	0.00			1.70E-08	0.00	0.00	0
ACETONE	1.00E-01	1.00E-01	1.00E-01	6.77E-02		1.00E+00	1.75E-08	0.00			8.45E-08	0.00	0.00	0
cis-1,2-DICHLOROETHYLENE	1.00E-02	1.00E-02	1.00E-02	6.84E-01		1.00E+00	1.77E-07	0.00			3.69E-06	0.00	0.00	2
ETHYLBENZENE	1.00E-01	1.00E-01	2.90E-01	2.35E-03		1.00E+00	6.07E-10	0.00			6.81E-09	0.00	0.00	0
METHYL ETHYL KETONE (2-BUTANONE)	6.00E-01	6.00E-01	2.86E-01	1.80E-02		1.00E+00	4.64E-09	0.00			1.45E-08	0.00	0.00	0
METHYLENE CHLORIDE	6.00E-02	6.00E-02	8.57E-01	1.25E-02		1.00E+00	3.24E-09	0.00			7.87E-08	0.00	0.00	0
NAPHTHALENE	2.00E-02	2.00E-02	8.57E-04	6.84E-03	1.30E-01	1.00E+00	1.77E-09	0.00	4.59E-10	0.0000	2.48E-09	0.00	0.00	0
n-PROPYLBENZENE	4.00E-02	4.00E-02	4.00E-02	1.81E-02		1.00E+00	4.68E-09	0.00			2.50E-08	0.00	0.00	0
P-CYMENE (p-ISOPROPYLTOLUENE)	1.00E-01	1.00E-01	1.10E-01	1.26E-02		1.00E+00	3.26E-09	0.00			5.51E-08	0.00	0.00	0
TETRACHLOROETHYLENE (PCE)	1.00E-02	1.00E-02	1.70E-01	1.76E-03		1.00E+00	4.54E-10	0.00			1.08E-08	0.00	0.00	0
TOLUENE	2.00E-01	2.00E-01	1.10E-01	4.10E-03		1.00E+00	1.06E-09	0.00			1.61E-08	0.00	0.00	0
trans-1,2-DICHLOROETHENE	2.00E-02	2.00E-02	2.00E-02	1.61E-02		1.00E+00	4.16E-09	0.00			1.08E-07	0.00	0.00	0
TRICHLOROETHYLENE (TCE)	6.00E-03	6.00E-03	6.00E-03	1.39E-01		1.00E+00	3.59E-08	0.00			6.68E-07	0.00	0.00	0
XYLENES, m & p	2.00E-01	2.00E-01	2.90E-02	7.50E-03	1.00E-01	1.00E+00	1.94E-09	0.00	3.87E-10	0.0000	1.92E-08	0.00	0.00	0
XYLENES, TOTAL	2.00E-01	2.00E-01	2.90E-02	5.43E-03	1.00E-01	1.00E+00	1.40E-09	0.00	2.81E-10	0.0000	1.39E-08	0.00	0.00	0
								0.024		0.00004		0.0005		100
											Total HI =	0.025		

Note:
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
EPC = Exposure Point Concentration
HI = Hazard Index
HQ = Hazard Quotient;
mg/kg-day = milligrams per kilogram per day
RfC = Reference Concentration
RfD_d = Dermal Reference Dose;
RfD_o = Oral Reference Dose
RfD_i = Inhalation Reference Dose

Table C-75
Onsite Excavation Worker Scenario - Potential Excess Lifetime Cancer Risk
Subsurface Soil - Building 35-752
Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation			%
Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC (mg/kg)	ABS_d	ABS_{gi}	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	Total ELCR	Contribution
LEAD	--				9.89E+00	0	1.00E+00	2E-07				1.12E-11			
DIELDRIN	B2	1.60E+01	1.60E+01	1.61E+01	3.91E-02	1.00E-01	1.00E+00	1E-09	1.5E-08	2E-10	3.0E-09	4.44E-14	7.1E-13	1.8E-08	2
p,p'-DDD	B2	2.40E-01	2.40E-01		1.91E-02	3.00E-02	1.00E+00	5E-10	1.1E-10	3E-11	6.7E-12	2.16E-14		1.2E-10	0
p,p'-DDE	B2	3.40E-01	3.40E-01		3.77E-02	3.00E-02	1.00E+00	9E-10	3.1E-10	6E-11	1.9E-11	4.28E-14		3.3E-10	0
p,p'-DDT	B2	3.40E-01	3.40E-01	3.40E-01	1.00E-01	3.00E-02	1.00E+00	2E-09	8.3E-10	1E-10	5.0E-11	1.14E-13	3.9E-14	8.8E-10	0
PCB-1260 (AROCHLOR 1260)	B2	2.00E+00	2.00E+00	2.00E+00	1.28E+01	1.40E-01	1.00E+00	3E-07	6.3E-07	9E-08	1.8E-07	1.46E-11	2.9E-11	8.0E-07	98
CHRYSENE	B2	7.30E-03	7.30E-03		9.42E-02	1.30E-01	1.00E+00	2E-09	1.7E-11	6E-10	4.4E-12	1.07E-13		2.1E-11	0
FLUORANTHENE	D				9.42E-02	1.30E-01	1.00E+00	2E-09		6E-10		1.07E-13			
PYRENE	D				9.42E-02	1.30E-01	1.00E+00	2E-09		6E-10		1.07E-13			
1,1,1-TRICHLOROETHANE	D				2.43E-03		1.00E+00	6E-11				1.62E-09			
1,2,4-TRIMETHYLBENZENE	--				1.15E-02		1.00E+00	3E-10				8.62E-10			
ACETONE	D				5.65E-01		1.00E+00	1E-08				6.64E-08			
METHYL ETHYL KETONE (2-BUTANONE	D				5.91E-02		1.00E+00	1E-09				4.50E-09			
METHYLENE CHLORIDE	B2	7.50E-03	7.50E-03	1.65E-03	1.56E-02		1.00E+00	4E-10	2.8E-12			9.22E-09	1.5E-11	1.8E-11	0
TETRACHLOROETHYLENE(PCE)	C-B2	5.20E-02	5.20E-02	1.00E-02	2.12E-03		1.00E+00	5E-11	2.7E-12			1.22E-09	1.2E-11	1.5E-11	0
TOLUENE	D				7.84E-03		1.00E+00	2E-10				2.91E-09			
TRICHLOROETHYLENE (TCE)	B2	1.10E-02	1.10E-02	6.00E-03	3.79E-02		1.00E+00	9E-10	1.0E-11			1.72E-08	1.0E-10	1.1E-10	0
XYLENES, TOTAL	D				8.92E-03	1.00E-01	1.00E+00	2E-10		4E-11		2.16E-09			
Total Risk									6.4E-07		1.8E-07		1.6E-10		100
												Total Risk =	8.2E-07		

Note:
Cancer WOE Classifications:
Group A: Human carcinogen
Group B (B1, B2): Probable human carcinogen
Group C: Possible human carcinogen
Group D: Not classifiable
Group E: No evidence of carcinogenicity
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
ELCR = Excess Lifetime Cancer Risk
EPC = Exposure Point Concentration
mg/kg-day = milligrams per kilogram per day
SF_d = Dermal Slope Factor
SF_o = Oral Slope Factor
SF_i = Inhalation Slope Factor
WOE = Weight of Evidence

Table C-76
Onsite Excavation Worker Scenario - Potential Noncarcinogenic Risk
Subsurface Soil - Building 35-752
Fort Richardson - Operable Unit E

							Ingestion		Dermal		Inhalation			
Chemical	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC (mg/kg)	ABS_d	ABS_{gi}	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ	Total HI	% Contribution
LEAD				9.89E+00	0	1.00E+00	3E-06				1.19E-10			
DIELDRIN	5.00E-05	5.00E-05		3.91E-02	1.00E-01	1.00E+00	1E-08	0.0002	2E-09	0.0000	4.71E-13		0.0002	70
p,p'-DDD				1.91E-02	3.00E-02	1.00E+00	5E-09		3E-10		2.30E-13			
p,p'-DDE				3.77E-02	3.00E-02	1.00E+00	1E-08		6E-10		4.54E-13			
p,p'-DDT	5.00E-04	5.00E-04		1.00E-01	3.00E-02	1.00E+00	3E-08	0.0000517	2E-09	0.0000	1.20E-12		0.0000548	16
PCB-1260 (AROCHLOR 1260)				1.28E+01	1.40E-01	1.00E+00	3E-06		9E-07		1.55E-10			
CHRYSENE				9.42E-02	1.30E-01	1.00E+00	2E-08		6E-09		1.13E-12			
FLUORANTHENE	4.00E-02	4.00E-02		9.42E-02	1.30E-01	1.00E+00	2E-08	0.0000	6E-09	0.0000	1.13E-12		0.000	0
PYRENE	3.00E-02	3.00E-02		9.42E-02	1.30E-01	1.00E+00	2E-08	0.000001	6E-09	0.0000	1.13E-12		0.000001	0
1,1,1-TRICHLOROETHANE	2.80E-01	2.80E-01	6.30E-01	2.43E-03		1.00E+00	6E-10	0.0000			1.72E-08	0.00	0.000	0
1,2,4-TRIMETHYLBENZENE	5.00E-02	5.00E-02	1.70E-03	1.15E-02		1.00E+00	3E-09	0.00000			9.14E-09	0.00	0.00001	2
ACETONE	1.00E-01	1.00E-01	1.00E-01	5.65E-01		1.00E+00	1E-07	0.0000015			7.05E-07	0.00	0.0000085	2
METHYL ETHYL KETONE (2-BUTANONE)	6.00E-01	6.00E-01	2.86E-01	5.91E-02		1.00E+00	2E-08	0.0000			4.77E-08	0.00	0.000	0
METHYLENE CHLORIDE	6.00E-02	6.00E-02	8.57E-01	1.56E-02		1.00E+00	4E-09	0.000000			9.78E-08	0.00	0.000000	0
TETRACHLOROETHYLENE(PCE)	1.00E-02	1.00E-02	1.70E-01	2.12E-03		1.00E+00	5E-10	0.00000			1.30E-08	0.00	0.00000	0
TOLUENE	2.00E-01	2.00E-01	1.10E-01	7.84E-03		1.00E+00	2E-09	0.0000			3.08E-08	0.00	0.000	0
TRICHLOROETHYLENE (TCE)	6.00E-03	6.00E-03	6.00E-03	3.79E-02		1.00E+00	1E-08	0.0000			1.82E-07	0.00	0.000	9
XYLENES, TOTAL	2.00E-01	2.00E-01	2.90E-02	8.92E-03	1.00E-01	1.00E+00	2E-09	0.0000	5E-10	0.00000	2.29E-08	0.00	0.000	0
								0.0003		0.00004		0.00004		100
											Total HI =	0.0003		

Note:
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
EPC = Exposure Point Concentration
HI = Hazard Index
HQ = Hazard Quotient;
mg/kg-day = milligrams per kilogram per day
RfC = Reference Concentration
RfD_d = Dermal Reference Dose;
RfD_o = Oral Reference Dose
RfD_i = Inhalation Reference Dose

Table C-77
Onsite Excavation Worker Scenario - Potential Excess Lifetime Cancer Risk
Subsurface Soil - Burn Pit Area
Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation			
Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC (mg/kg)	ABS_d	ABS_{gi}	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	Total ELCR	% Contribution
1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	B2	1.50E+03	1.50E+03	1.50E+03	4.19E-06	3.00E-02	1.00E+00	1.02E-13	1.5E-10	6.12E-15	9.2E-12	4.76E-18	7.1E-15	1.6E-10	0
1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN	B2	1.50E+03	1.50E+03	1.50E+03	3.22E-06	3.00E-02	1.00E+00	7.85E-14	1.2E-10	4.71E-15	7.1E-12	3.66E-18	5.5E-15	1.2E-10	0
1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	B2	1.50E+03	1.50E+03	1.50E+03	5.00E-06	3.00E-02	1.00E+00	1.22E-13	1.8E-10	7.31E-15	1.1E-11	5.68E-18	8.5E-15	1.9E-10	0
1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	B2	1.50E+04	1.50E+04	1.50E+04	4.77E-06	3.00E-02	1.00E+00	1E-13	1.7E-09	7E-15	1.0E-10	5.41E-18	8.1E-14	1.8E-09	3
1,2,3,4,7,8-HEXACHLORODIBENZO-p-DIOXIN	B2	1.50E+04	1.50E+04	1.50E+04	5.25E-07	3.00E-02	1.00E+00	1E-14	1.9E-10	8E-16	1.2E-11	5.96E-19	8.9E-15	2.0E-10	0
1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	B2	1.50E+04	1.50E+04	1.50E+04	7.67E-07	3.00E-02	1.00E+00	2E-14	2.8E-10	1E-15	1.7E-11	8.71E-19	1.3E-14	3.0E-10	0
1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	B2	1.50E+04	1.50E+04	1.50E+04	7.62E-07	3.00E-02	1.00E+00	2E-14	2.8E-10	1E-15	1.7E-11	8.65E-19	1.3E-14	2.9E-10	0
1,2,3,7,8,9-HEXACHLORODIBENZOFURAN	B2	1.50E+04	1.50E+04	1.50E+04	6.20E-07	3.00E-02	1.00E+00	2E-14	2.3E-10	9E-16	1.4E-11	7.04E-19	1.1E-14	2.4E-10	0
1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	B2	1.50E+04	1.50E+04	1.50E+04	7.01E-07	3.00E-02	1.00E+00	2E-14	2.6E-10	1E-15	1.5E-11	7.96E-19	1.2E-14	2.7E-10	0
1,2,3,7,8-PENTACHLORODIBENZOFURAN	B2	7.50E+03	7.50E+03	7.50E+03	1.90E-06	3.00E-02	1.00E+00	5E-14	3.5E-10	3E-15	2.1E-11	2.16E-18	1.6E-14	3.7E-10	1
1,2,3,7,8-PENTACHLORODIBENZO-p-DIOXIN	B2	1.50E+05	1.50E+05	1.50E+05	6.30E-07	3.00E-02	1.00E+00	2E-14	2.3E-09	9E-16	1.4E-10	7.15E-19	1.1E-13	2.4E-09	4
2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	B2	1.50E+04	1.50E+04	1.50E+04	1.85E-06	3.00E-02	1.00E+00	5E-14	6.8E-10	3E-15	4.1E-11	2.10E-18	3.2E-14	7.2E-10	1
2,3,4,7,8-PENTACHLORODIBENZOFURAN	B2	7.50E+04	7.50E+04	7.50E+04	6.90E-06	3.00E-02	1.00E+00	2E-13	1.3E-08	1E-14	7.6E-10	7.83E-18	5.9E-13	1.3E-08	21
2,3,7,8-TETRACHLORODIBENZOFURAN	B2	1.50E+04	1.50E+04	1.50E+04	4.00E-06	3.00E-02	1.00E+00	1E-13	1.5E-09	6E-15	8.8E-11	4.54E-18	6.8E-14	1.5E-09	2
OCTACHLORODIBENZOFURAN	B2	1.50E+01	1.50E+01	1.50E+01	1.93E-05	3.00E-02	1.00E+00	5E-13	7.0E-12	3E-14	4.2E-13	2.19E-17	3.3E-16	7.5E-12	0
OCTACHLORODIBENZO-p-DIOXIN	B2	1.50E+01	1.50E+01	1.50E+01	2.44E-05	3.00E-02	1.00E+00	6E-13	8.9E-12	4E-14	5.4E-13	2.78E-17	4.2E-16	9.5E-12	0
Total TCDD-Mammal	--	1.50E+05	1.50E+05	1.50E+05	2.84E-06	3.00E-02	1.00E+00	7E-14	1.0E-08	4E-15	6.2E-10	3.23E-18	4.8E-13	1.1E-08	17
PCB-1260 (AROCHLOR 1260)	B2	2.00E+00	2.00E+00	2.00E+00	8.50E-01	1.40E-01	1.00E+00	2E-08	4.1E-08	6E-09	1.2E-08	9.65E-13	1.9E-12	5.3E-08	82
BENZYL BUTYL PHTHALATE	C				6.00E-02	1.00E-01	1.00E+00	1E-09		3E-10		6.81E-14			
bis(2-ETHYLHEXYL) PHTHALATE	--	1.40E-02	1.40E-02		1.10E+00	1.00E-01	1.00E+00	3E-08	3.8E-10	5E-09	7.5E-11	1.25E-12		4.5E-10	1
DI-n-BUTYL PHTHALATE	D				4.39E-01	1.00E-01	1.00E+00	1E-08		2E-09		4.99E-13			
DI-n-OCTYLPHTHALATE	D				6.50E-02	1.00E-01	1.00E+00	2E-09		3E-10		7.38E-14			
PYRENE	D				7.00E-02	1.30E-01	1.00E+00	2E-09		4E-10		7.95E-14			
1,1,1-TRICHLOROETHANE	D				7.76E-03		1.00E+00	2E-10				5.18E-09			
1,2,4-TRICHLOROBENZENE	D				2.40E-01		1.00E+00	6E-09				8.21E-09			
ACETONE	D				1.82E-02		1.00E+00	4E-10				2.14E-09			
cis-1,2-DICHLOROETHYLENE	D				8.70E-01		1.00E+00	2E-08				4.42E-07			
Total Risk									5.2E-08		1.2E-08		2.4E-12		100
												Total Risk =	6.4E-08		

Note:
Cancer WOE Classifications:
Group A: Human carcinogen
Group B (B1, B2): Probable human carcinogen
Group C: Possible human carcinogen
Group D: Not classifiable
Group E: No evidence of carcinogenicity
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
ELCR = Excess Lifetime Cancer Risk
EPC = Exposure Point Concentration
mg/kg-day = milligrams per kilogram per day
SF_d = Dermal Slope Factor
SF_o = Oral Slope Factor
SF_i = Inhalation Slope Factor
WOE = Weight of Evidence

Table C-78

Onsite Excavation Worker Scenario - Potential Noncarcinogenic Risk

Subsurface Soil - Burn Pit Area

Fort Richardson - Operable Unit E

							Ingestion		Dermal		Inhalation			
Chemical	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC (mg/kg)	ABS_d	ABS_{gi}	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ	Total HI	% Contribution
1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN				4.19E-06	3.00E-02	1.00E+00	1.08E-12		6.49E-14		5.04E-17			
1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN				3.22E-06	3.00E-02	1.00E+00	8.32E-13		4.99E-14		3.88E-17			
1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN				5.00E-06	3.00E-02	1.00E+00	1.29E-12		7.75E-14		6.02E-17			
1,2,3,4,7,8-HEXACHLORODIBENZOFURAN				4.77E-06	3.00E-02	1.00E+00	1E-12		7E-14		5.74E-17			
1,2,3,4,7,8-HEXACHLORODIBENZO-p-DIOXIN				5.25E-07	3.00E-02	1.00E+00	1E-13		8E-15		6.32E-18			
1,2,3,6,7,8-HEXACHLORODIBENZOFURAN				7.67E-07	3.00E-02	1.00E+00	2E-13		1E-14		9.24E-18			
1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN				7.62E-07	3.00E-02	1.00E+00	2E-13		1E-14		9.17E-18			
1,2,3,7,8,9-HEXACHLORODIBENZOFURAN				6.20E-07	3.00E-02	1.00E+00	2E-13		1E-14		7.47E-18			
1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN				7.01E-07	3.00E-02	1.00E+00	2E-13		1E-14		8.45E-18			
1,2,3,7,8-PENTACHLORODIBENZOFURAN				1.90E-06	3.00E-02	1.00E+00	5E-13		3E-14		2.29E-17			
1,2,3,7,8-PENTACHLORODIBENZO-p-DIOXIN				6.30E-07	3.00E-02	1.00E+00	2E-13		1E-14		7.59E-18			
2,3,4,6,7,8-HEXACHLORODIBENZOFURAN				1.85E-06	3.00E-02	1.00E+00	5E-13		3E-14		2.23E-17			
2,3,4,7,8-PENTACHLORODIBENZOFURAN				6.90E-06	3.00E-02	1.00E+00	2E-12		1E-13		8.31E-17			
2,3,7,8-TETRACHLORODIBENZOFURAN				4.00E-06	3.00E-02	1.00E+00	1E-12		6E-14		4.82E-17			
OCTACHLORODIBENZOFURAN				1.93E-05	3.00E-02	1.00E+00	5E-12		3E-13		2.32E-16			
OCTACHLORODIBENZO-p-DIOXIN				2.44E-05	3.00E-02	1.00E+00	6E-12		4E-13		2.94E-16			
Total TCDD-Mammal				2.84E-06	3.00E-02	1.00E+00	7E-13		4E-14		3.42E-17			
PCB-1260 (AROCHLOR 1260)				8.50E-01	1.40E-01	1.00E+00	2E-07		6E-08		1.02E-11			
BENZYL BUTYL PHTHALATE	2.00E-01	2.00E-01		6.00E-02	1.00E-01	1.00E+00	2E-08	0.0000	3E-09	0.0000	7.23E-13		0.000	0
bis(2-ETHYLHEXYL) PHTHALATE	2.00E-02	2.00E-02		1.10E+00	1.00E-01	1.00E+00	3E-07	0.000014	6E-08	0.0000	1.32E-11		0.000017	3
DI-n-BUTYL PHTHALATE	1.00E-01	1.00E-01		4.39E-01	1.00E-01	1.00E+00	1E-07	0.00000	2E-08	0.0000	5.29E-12		0.00000	0
DI-n-OCTYLPHTHALATE	4.00E-02	4.00E-02		6.50E-02	1.00E-01	1.00E+00	2E-08	0.0000	3E-09	0.0000	7.83E-13		0.000	0
PYRENE	3.00E-02	3.00E-02		7.00E-02	1.30E-01	1.00E+00	2E-08	0.0000	5E-09	0.0000	8.43E-13		0.000	0
1,1,1-TRICHLOROETHANE	2.80E-01	2.80E-01	6.30E-01	7.76E-03		1.00E+00	2E-09	0.0000			5.50E-08	0.00	0.000	0
1,2,4-TRICHLOROBENZENE	1.00E-02	1.00E-02	5.70E-02	2.40E-01		1.00E+00	6E-08	0.0000			8.70E-08	0.00	0.000	1
ACETONE	1.00E-01	1.00E-01	1.00E-01	1.82E-02		1.00E+00	5E-09	0.0000			2.27E-08	0.00	0.000	0
cis-1,2-DICHLOROETHYLENE	1.00E-02	1.00E-02	1.00E-02	8.70E-01		1.00E+00	2E-07	0.0000			4.69E-06	0.00	0.000	95
								0.000045		0.0000033		0.00047		100
											Total HI =	0.00052		

Note:

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

EPC = Exposure Point Concentration

HI = Hazard Index

HQ = Hazard Quotient;

mg/kg-day = milligrams per kilogram per day

RfC = Reference Concentration

RfD_d = Dermal Reference Dose;

RfD_o = Oral Reference Dose

RfD_i = Inhalation Reference Dose

Table C-79
Onsite Excavation Worker Scenario - Potential Excess Lifetime Cancer Risk
Subsurface Soil - Cooling Pond Area
Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation			%
Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_I (mg/kg-day)$^{-1}$	EPC (mg/kg)	ABS_d	ABS_{gi}	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	Total ELCR	Contribution
LEAD	--				7.41E+01	0	1.00E+00	1.81E-06				8.42E-11			
ALDRIN	B2	1.70E+01	1.70E+01	1.72E+01	2.30E-03	1.00E-01	1.00E+00	5.60E-11	9.5E-10	1.12E-11	1.9E-10	2.61E-15	4.5E-14	1.1E-09	0
BETA BHC	C	1.80E+00	1.80E+00	1.80E+00	6.77E-03	4.00E-02	1.00E+00	1.65E-10	3.0E-10	1.32E-11	2.4E-11	7.69E-15	1.4E-14	3.2E-10	0
DIELDRIN	B2	1.60E+01	1.60E+01	1.61E+01	5.26E-03	1.00E-01	1.00E+00	1.28E-10	2.1E-09	2.56E-11	4.1E-10	5.98E-15	9.6E-14	2.5E-09	0
ENDRIN	D				1.34E-02	1.00E-01	1.00E+00	3.27E-10		6.54E-11		1.53E-14			
ENDRIN ALDEHYDE	D				1.50E-01	1.00E-01	1.00E+00	3.65E-09		7.31E-10		1.70E-13			
p,p'-DDD	B2	2.40E-01	2.40E-01		2.27E-01	3.00E-02	1.00E+00	5.54E-09	1.3E-09	3.32E-10	8.0E-11	2.58E-13		1.4E-09	0
p,p'-DDE	B2	3.40E-01	3.40E-01		1.62E-02	3.00E-02	1.00E+00	3.94E-10	1.3E-10	2.36E-11	8.0E-12	1.84E-14		1.4E-10	0
p,p'-DDT	B2	3.40E-01	3.40E-01	3.40E-01	1.20E-01	3.00E-02	1.00E+00	2.92E-09	9.9E-10	1.75E-10	6.0E-11	1.36E-13	4.6E-14	1.1E-09	0
PCB-1260 (AROCHLOR 1260)	B2	2.00E+00	2.00E+00	2.00E+00	7.17E+00	1.40E-01	1.00E+00	1.75E-07	3.5E-07	4.89E-08	9.8E-08	8.14E-12	1.6E-11	4.5E-07	82
2-METHYLNAPHTHALENE	--				1.00E-01	1.30E-01	1.00E+00	2.44E-09		6.34E-10		1.14E-13			
ACENAPHTHENE	D				9.93E-02	1.30E-01	1.00E+00	2.42E-09		6.29E-10		1.13E-13			
ACENAPHTHYLENE	--				9.92E-02	1.30E-01	1.00E+00	2.42E-09		6.28E-10		1.13E-13			
ANTHRACENE	D				3.95E-01	1.30E-01	1.00E+00	9.62E-09		2.50E-09		4.48E-13			
BENZO(a)ANTHRACENE	B2	7.30E-01	7.30E-01		3.57E-01	1.30E-01	1.00E+00	8.70E-09	6.3E-09	2.26E-09	1.7E-09	4.05E-13		8.0E-09	1
BENZO(a)PYRENE	B2	7.30E+00	7.30E+00		2.13E-01	1.30E-01	1.00E+00	5.19E-09	3.8E-08	1.35E-09	9.8E-09	2.42E-13		4.8E-08	9
BENZO(b)FLUORANTHENE	B2	7.30E-01	7.30E-01		4.43E-01	1.30E-01	1.00E+00	1.08E-08	7.9E-09	2.81E-09	2.0E-09	5.03E-13		9.9E-09	2
BENZO(g,h,i)PERYLENE	--			1.60E+01	1.23E-01	1.30E-01	1.00E+00	2.99E-09		7.77E-10		1.39E-13	2.2E-12	2.2E-12	0
BENZO(k)FLUORANTHENE	B2	7.30E-02	7.30E-02		3.87E-01	1.30E-01	1.00E+00	9.44E-09	6.9E-10	2.45E-09	1.8E-10	4.40E-13		8.7E-10	0
bis(2-ETHYLHEXYL) PHTHALATE	--	1.40E-02	1.40E-02		6.60E+00	1.00E-01	1.00E+00	1.61E-07	2.2E-09	3.21E-08	4.5E-10	7.49E-12		2.7E-09	0
CHRYSENE	B2	7.30E-03	7.30E-03		8.27E-01	1.30E-01	1.00E+00	2.01E-08	1.5E-10	5.24E-09	3.8E-11	9.39E-13		1.9E-10	0
DIBENZ(a,h)ANTHRACENE	B2	7.30E+00	7.30E+00		8.81E-02	1.30E-01	1.00E+00	2.15E-09	1.6E-08	5.58E-10	4.1E-09	1.00E-13		2.0E-08	4
DIBENZOFURAN	D				1.01E-01		1.00E+00	2.47E-09				1.15E-13			
FLUORANTHENE	D				2.20E+00	1.30E-01	1.00E+00	5.36E-08		1.39E-08		2.50E-12			
FLUORENE	D				9.11E-02	1.30E-01	1.00E+00	2.22E-09		5.77E-10		1.03E-13			
INDENO(1,2,3-c,d)PYRENE	B2	7.30E-01	7.30E-01		1.58E-01	1.30E-01	1.00E+00	3.86E-09	2.8E-09	1.00E-09	7.3E-10	1.80E-13		3.6E-09	1
PHENANTHRENE	D				1.18E+00	1.30E-01	1.00E+00	2.86E-08		7.45E-09		1.34E-12			
PYRENE	D				2.52E+00	1.30E-01	1.00E+00	6.14E-08		1.60E-08		2.86E-12			
1,2,4-TRIMETHYLBENZENE	--				4.82E-03		1.00E+00	1.17E-10				3.62E-10			
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	--				4.73E-03		1.00E+00	1.15E-10				8.68E-10			
1,4-DICHLOROBENZENE	--	2.40E-02	2.40E-02	2.20E-02	1.22E-02		1.00E+00	2.96E-10	7.1E-12			1.39E-09	3.1E-11	3.8E-11	0
2-CHLOROTOLUENE	D				5.08E-03		1.00E+00	1.24E-10				1.33E-09			
ACETONE	D				1.27E-01		1.00E+00	3.10E-09				1.50E-08			
METHYL ETHYL KETONE (2-BUTANONE)	D				2.70E-02		1.00E+00	6.58E-10				2.05E-09			
NAPHTHALENE	C				1.11E-02	1.30E-01	1.00E+00	2.71E-10		7.05E-11		3.80E-10			
n-PROPYLBENZENE	--				1.14E-01		1.00E+00	2.78E-09				1.49E-08			
P-CYMENE (p-ISOPROPYLTOLUENE)	D				7.79E-02		1.00E+00	1.90E-09				3.20E-08			
TRICHLOROETHYLENE (TCE)	B2	1.10E-02	1.10E-02	6.00E-03	1.45E-03		1.00E+00	3.53E-11	3.9E-13			6.55E-10	3.9E-12	4.3E-12	0
Total Risk									4.3E-07		1.2E-07		5.3E-11		100
												Total Risk =	5.5E-07		

Note:
Cancer WOE Classifications:
Group A: Human carcinogen
Group B (B1, B2): Probable human carcinogen
Group C: Possible human carcinogen
Group D: Not classifiable
Group E: No evidence of carcinogenicity
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
ELCR = Excess Lifetime Cancer Risk
EPC = Exposure Point Concentration
mg/kg-day = milligrams per kilogram per day
SF_d = Dermal Slope Factor
SF_o = Oral Slope Factor
SF_I = Inhalation Slope Factor
WOE = Weight of Evidence

Table C-80
Onsite Excavation Worker Scenario - Potential Noncarcinogenic Risk
Subsurface Soil - Cooling Pond Area
Fort Richardson - Operable Unit E

							Ingestion		Dermal		Inhalation			%
Chemical	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC (mg/kg)	ABS_d	ABS_{gi}	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ	Total HI	Contribution
LEAD				7.41E+01	0	1.00E+00	1.92E-05				8.93E-10			
ALDRIN	3.00E-05	3.00E-05		2.30E-03	1.00E-01	1.00E+00	5.94E-10	0.00	1.19E-10	0.0000	2.77E-14		0.00	5
BETA BHC	2.00E-04	2.00E-04		6.77E-03	4.00E-02	1.00E+00	1.75E-09	0.00	1.40E-10	0.0000	8.16E-14		0.00	2
DIELDRIN	5.00E-05	5.00E-05		5.26E-03	1.00E-01	1.00E+00	1.36E-09	0.00	2.72E-10	0.0000	6.34E-14		0.00	7
ENDRIN	3.00E-04	3.00E-04		1.34E-02	1.00E-01	1.00E+00	3.47E-09	0.00	6.94E-10	0.0000	1.62E-13		0.00	3
ENDRIN ALDEHYDE	3.00E-04	3.00E-04		1.50E-01	1.00E-01	1.00E+00	3.87E-08	0.00	7.75E-09	0.0000	1.81E-12		0.00	32
p,p'-DDD				2.27E-01	3.00E-02	1.00E+00	5.87E-08		3.52E-09		2.74E-12			
p,p'-DDE				1.62E-02	3.00E-02	1.00E+00	4.18E-09		2.51E-10		1.95E-13			
p,p'-DDT	5.00E-04	5.00E-04		1.20E-01	3.00E-02	1.00E+00	3.10E-08	0.00	1.86E-09	0.0000	1.44E-12		0.00	13
PCB-1260 (AROCHLOR 1260)				7.17E+00	1.40E-01	1.00E+00	1.85E-06		5.18E-07		8.63E-11			
2-METHYLNAPHTHALENE	9.00E-03	9.00E-03		1.00E-01	1.30E-01	1.00E+00	2.59E-08	0.00	6.73E-09	0.0000	1.21E-12		0.00	1
ACENAPHTHENE	6.00E-02	6.00E-02		9.93E-02	1.30E-01	1.00E+00	2.57E-08	0.00	6.67E-09	0.0000	1.20E-12		0.00	0
ACENAPHTHYLENE	6.00E-02	6.00E-02		9.92E-02	1.30E-01	1.00E+00	2.56E-08	0.00	6.66E-09	0.0000	1.19E-12		0.00	0
ANTHRACENE	3.00E-01	3.00E-01		3.95E-01	1.30E-01	1.00E+00	1.02E-07	0.00	2.65E-08	0.0000	4.76E-12		0.00	0
BENZO(a)ANTHRACENE				3.57E-01	1.30E-01	1.00E+00	9.22E-08		2.40E-08		4.30E-12			
BENZO(a)PYRENE				2.13E-01	1.30E-01	1.00E+00	5.50E-08		1.43E-08		2.57E-12			
BENZO(b)FLUORANTHENE				4.43E-01	1.30E-01	1.00E+00	1.15E-07		2.98E-08		5.34E-12			
BENZO(g,h,i)PERYLENE				1.23E-01	1.30E-01	1.00E+00	3.17E-08		8.24E-09		1.48E-12			
BENZO(k)FLUORANTHENE				3.87E-01	1.30E-01	1.00E+00	1.00E-07		2.60E-08		4.67E-12			
bis(2-ETHYLHEXYL) PHTHALATE	2.00E-02	2.00E-02		6.60E+00	1.00E-01	1.00E+00	1.70E-06	0.00	3.41E-07	0.0000	7.94E-11		0.00	21
CHRYSENE				8.27E-01	1.30E-01	1.00E+00	2.14E-07		5.56E-08		9.96E-12			
DIBENZ(a,h)ANTHRACENE				8.81E-02	1.30E-01	1.00E+00	2.28E-08		5.92E-09		1.06E-12			
DIBENZOFURAN	4.00E-03	4.00E-03		1.01E-01		1.00E+00	2.62E-08	0.00			1.22E-12		0.00	1
FLUORANTHENE	4.00E-02	4.00E-02		2.20E+00	1.30E-01	1.00E+00	5.68E-07	0.00	1.48E-07	0.0000	2.65E-11		0.00	4
FLUORENE	4.00E-02	4.00E-02		9.11E-02	1.30E-01	1.00E+00	2.35E-08	0.00	6.12E-09	0.0000	1.10E-12		0.00	0
INDENO(1,2,3-c,d)PYRENE				1.58E-01	1.30E-01	1.00E+00	4.09E-08		1.06E-08		1.91E-12			
PHENANTHRENE	3.00E-01	3.00E-01		1.18E+00	1.30E-01	1.00E+00	3.04E-07	0.00	7.90E-08	0.0000	1.42E-11		0.00	0
PYRENE	3.00E-02	3.00E-02		2.52E+00	1.30E-01	1.00E+00	6.51E-07	0.00	1.69E-07	0.0000	3.04E-11		0.00	6
1,2,4-TRIMETHYLBENZENE	5.00E-02	5.00E-02	1.70E-03	4.82E-03		1.00E+00	1.25E-09	0.00			3.84E-09	0.00	0.00	0
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	5.00E-02	5.00E-02	1.70E-03	4.73E-03		1.00E+00	1.22E-09	0.00			9.21E-09	0.00	0.00	1
1,4-DICHLOROBENZENE	3.00E-02	3.00E-02	2.29E-01	1.22E-02		1.00E+00	3.14E-09	0.00			1.47E-08	0.00	0.00	0
2-CHLOROTOLUENE	2.00E-02	2.00E-02	2.00E-02	5.08E-03		1.00E+00	1.31E-09	0.00			1.41E-08	0.00	0.00	0
ACETONE	1.00E-01	1.00E-01	1.00E-01	1.27E-01		1.00E+00	3.29E-08	0.00			1.59E-07	0.00	0.00	0
METHYL ETHYL KETONE (2-BUTANONE)	6.00E-01	6.00E-01	2.86E-01	2.70E-02		1.00E+00	6.98E-09	0.00			2.18E-08	0.00	0.00	0
NAPHTHALENE	2.00E-02	2.00E-02	8.57E-04	1.11E-02	1.30E-01	1.00E+00	2.88E-09	0.00	7.48E-10	0.0000	4.03E-09	0.00	0.00	1
n-PROPYLBENZENE	4.00E-02	4.00E-02	4.00E-02	1.14E-01		1.00E+00	2.95E-08	0.00			1.58E-07	0.00	0.00	1
P-CYMENE (p-ISOPROPYLTOLUENE)	1.00E-01	1.00E-01	1.10E-01	7.79E-02		1.00E+00	2.01E-08	0.00			3.40E-07	0.00	0.00	1
TRICHLOROETHYLENE (TCE)	6.00E-03	6.00E-03	6.00E-03	1.45E-03		1.00E+00	3.74E-10	0.00			6.95E-09	0.00	0.00	0
								0.0004		0.00007		0.00002		100
											Total HI =	0.0005		

Note:
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
EPC = Exposure Point Concentration
HI = Hazard Index
HQ = Hazard Quotient;
mg/kg-day = milligrams per kilogram per day
RfC = Reference Concentration
RfD_d = Dermal Reference Dose;
RfD_o = Oral Reference Dose
RfD_i = Inhalation Reference Dose

Table C-81
Onsite Excavation Worker Scenario - Potential Excess Lifetime Cancer Risk
Subsurface Soil - Former Drum
Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation			
Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC (mg/kg)	ABS_d	ABS_{gi}	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	Total ELCR	% Contribution
IRON	--				2.80E+04	0	1.00E+00	7E-04				3.18E-08			
LEAD	--				1.52E+01	0	1.00E+00	4E-07				1.72E-11			
DIELDRIN	B2	1.60E+01	1.60E+01	1.61E+01		1.00E-01	1.00E+00								
p,p'-DDD	B2	2.40E-01	2.40E-01			3.00E-02	1.00E+00								
p,p'-DDE	B2	3.40E-01	3.40E-01			3.00E-02	1.00E+00								
p,p'-DDT	B2	3.40E-01	3.40E-01	3.40E-01	9.05E-02	3.00E-02	1.00E+00	2E-09	7.5E-10	1E-10	4.5E-11	1.03E-13	3.5E-14	7.9E-10	0
PCB-1260 (AROCHLOR 1260)	B2	2.00E+00	2.00E+00	2.00E+00	5.50E+00	1.40E-01	1.00E+00	1E-07	2.7E-07	4E-08	7.5E-08	6.25E-12	1.3E-11	3.4E-07	86
BENZO(a)PYRENE	B2	7.30E+00	7.30E+00		1.98E-01	1.30E-01	1.00E+00	5E-09	3.5E-08	1E-09	9.2E-09	2.25E-13		4.4E-08	11
BENZO(b)FLUORANTHENE	B2	7.30E-01	7.30E-01		3.58E-01	1.30E-01	1.00E+00	9E-09	6.4E-09	2E-09	1.7E-09	4.06E-13		8.0E-09	2
BENZO(k)FLUORANTHENE	B2	7.30E-02	7.30E-02		3.07E-01	1.30E-01	1.00E+00	7E-09	5.5E-10	2E-09	1.4E-10	3.49E-13		6.9E-10	0
bis(2-ETHYLHEXYL) PHTHALATE	--	1.40E-02	1.40E-02		3.41E-01	1.00E-01	1.00E+00	8E-09	1.2E-10	2E-09	2.3E-11	3.87E-13		1.4E-10	0
CHRYSENE	B2	7.30E-03	7.30E-03		3.87E-01	1.30E-01	1.00E+00	9E-09	6.9E-11	2E-09	1.8E-11	4.39E-13		8.7E-11	0
DI-n-OCTYLPHTHALATE	D				5.56E-01	1.00E-01	1.00E+00	1E-08		3E-09		6.31E-13			
FLUORANTHENE	D				3.78E-01	1.30E-01	1.00E+00	9E-09		2E-09		4.29E-13			
INDENO(1,2,3-c,d)PYRENE	B2	7.30E-01	7.30E-01			1.30E-01	1.00E+00								
PYRENE	D				3.28E-01	1.30E-01	1.00E+00	8E-09		2E-09		3.72E-13			
1,2,4-TRIMETHYLBENZENE	--						1.00E+00								
Total Risk									3.1E-07		8.6E-08		1.3E-11		100
												Total Risk =	4.0E-07		

Note:
Cancer WOE Classifications:
Group A: Human carcinogen
Group B (B1, B2): Probable human carcinogen
Group C: Possible human carcinogen
Group D: Not classifiable
Group E: No evidence of carcinogenicity
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
ELCR = Excess Lifetime Cancer Risk
EPC = Exposure Point Concentration
mg/kg-day = milligrams per kilogram per day
SF_d = Dermal Slope Factor
SF_o = Oral Slope Factor
SF_i = Inhalation Slope Factor
WOE = Weight of Evidence

Table C-82

Onsite Excavation Worker Scenario - Potential Noncarcinogenic Risk

Subsurface Soil - Former Drum

Fort Richardson - Operable Unit E

							Ingestion		Dermal		Inhalation			%
Chemical	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC (mg/kg)	ABS_d	ABS_{gi}	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ	Total HI	Contribution
IRON	3.00E-01	3.00E-01		2.80E+04	0	1.00E+00	7E-03	0.0241			3.37E-07		0.0241	100
LEAD				1.52E+01	0	1.00E+00	4E-06				1.83E-10			
DIELDRIN	5.00E-05	5.00E-05			1.00E-01	1.00E+00								
p,p'-DDD					3.00E-02	1.00E+00								
p,p'-DDE					3.00E-02	1.00E+00								
p,p'-DDT	5.00E-04	5.00E-04		9.05E-02	3.00E-02	1.00E+00	2E-08	0.0000	1E-09	0.0000	1.09E-12		0.000	0
PCB-1260 (AROCHLOR 1260)				5.50E+00	1.40E-01	1.00E+00	1E-06		4E-07		6.63E-11			
BENZO(a)PYRENE				1.98E-01	1.30E-01	1.00E+00	5E-08		1E-08		2.38E-12			
BENZO(b)FLUORANTHENE				3.58E-01	1.30E-01	1.00E+00	9E-08		2E-08		4.31E-12			
BENZO(k)FLUORANTHENE				3.07E-01	1.30E-01	1.00E+00	8E-08		2E-08		3.70E-12			
bis(2-ETHYLHEXYL) PHTHALATE	2.00E-02	2.00E-02		3.41E-01	1.00E-01	1.00E+00	9E-08	0.00000	2E-08	0.0000	4.10E-12		0.00001	0
CHRYSENE				3.87E-01	1.30E-01	1.00E+00	1E-07		3E-08		4.65E-12			
DI-n-OCTYLPHTHALATE	4.00E-02	4.00E-02		5.56E-01	1.00E-01	1.00E+00	1E-07	0.0000	3E-08	0.0000	6.70E-12		0.000	0
FLUORANTHENE	4.00E-02	4.00E-02		3.78E-01	1.30E-01	1.00E+00	1E-07	0.0000	3E-08	0.00000	4.55E-12		0.000	0
INDENO(1,2,3-c,d)PYRENE					1.30E-01	1.00E+00								
PYRENE	3.00E-02	3.00E-02		3.28E-01	1.30E-01	1.00E+00	8E-08	0.0000	2E-08	0.00000	3.95E-12		0.000	0
1,2,4-TRIMETHYLBENZENE	5.00E-02	5.00E-02	1.70E-03			1.00E+00								
								0.024		0.00001				100
											Total HI =	0.024		

Note:

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

EPC = Exposure Point Concentration

HI = Hazard Index

HQ = Hazard Quotient;

mg/kg-day = milligrams per kilogram per day

RfC = Reference Concentration

RfD_d = Dermal Reference Dose;

RfD_o = Oral Reference Dose

RfD_i = Inhalation Reference Dose

Table C-83

Onsite Excavation Worker Scenario - Potential Excess Lifetime Cancer Risk

Subsurface Soil - Former Tank Location

Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation			
Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC (mg/kg)	ABS_d	ABS_{gi}	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	Total ELCR	% Contribution
LEAD	--				9.40E+01	0	1.00E+00	2E-06				1.07E-10			
DIELDRIN	B2	1.60E+01	1.60E+01	1.61E+01	4.85E-03	1.00E-01	1.00E+00	1E-10	1.9E-09	2E-11	3.8E-10	5.51E-15	8.9E-14	2.3E-09	1
p,p'-DDE	B2	3.40E-01	3.40E-01		8.45E-03	3.00E-02	1.00E+00	2E-10	7.0E-11	1E-11	4.2E-12	9.60E-15		7.4E-11	0
p,p'-DDT	B2	3.40E-01	3.40E-01	3.40E-01	2.85E-02	3.00E-02	1.00E+00	7E-10	2.4E-10	4E-11	1.4E-11	3.24E-14	1.1E-14	2.5E-10	0
PCB-1260 (AROCHLOR 1260)	B2	2.00E+00	2.00E+00	2.00E+00	2.70E+00	1.40E-01	1.00E+00	7E-08	1.3E-07	2E-08	3.7E-08	3.06E-12	6.1E-12	1.7E-07	98
bis(2-ETHYLHEXYL) PHTHALATE	--	1.40E-02	1.40E-02		1.48E-01	1.00E-01	1.00E+00	4E-09	5.1E-11	7E-10	1.0E-11	1.68E-13		6.1E-11	0
DI-n-OCTYLPHTHALATE	D				4.32E-01	1.00E-01	1.00E+00	1E-08		2E-09		4.90E-13			
ACETONE	D				4.65E-02		1.00E+00	1E-09				5.47E-09			
TRICHLOROETHYLENE (TCE)	B2	1.10E-02	1.10E-02	6.00E-03	3.40E-02		1.00E+00	8E-10	9.1E-12			1.54E-08	9.2E-11	1.0E-10	0
XYLENES, TOTAL	D				3.75E-03	1.00E-01	1.00E+00	9E-11		2E-11		9.06E-10			
Total Risk									1.3E-07		3.7E-08		9.9E-11		100
												Total Risk =	1.7E-07		

Note:

Cancer WOE Classifications:

Group A: Human carcinogen

Group B (B1, B2): Probable human carcinogen

Group C: Possible human carcinogen

Group D: Not classifiable

Group E: No evidence of carcinogenicity

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

ELCR = Excess Lifetime Cancer Risk

EPC = Exposure Point Concentration

mg/kg-day = milligrams per kilogram per day

SF_d = Dermal Slope Factor

SF_o = Oral Slope Factor

SF_i = Inhalation Slope Factor

WOE = Weight of Evidence

Table C-84
Onsite Excavation Worker Scenario - Potential Noncarcinogenic Risk
Subsurface Soil - Former Tank Location
Fort Richardson - Operable Unit E

							Ingestion		Dermal		Inhalation			%
Chemical	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC (mg/kg)	ABS_d	ABS_{gi}	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ	Total HI	Contribution
LEAD				9.40E+01	0	1.00E+00	2E-05				1.13E-09			
DIELDRIN	5.00E-05	5.00E-05		4.85E-03	1.00E-01	1.00E+00	1E-09	0.0000	3E-10	0.0000	5.84E-14		0.0000	37
p,p'-DDE				8.45E-03	3.00E-02	1.00E+00	2E-09		1E-10		1.02E-13			
p,p'-DDT	5.00E-04	5.00E-04		2.85E-02	3.00E-02	1.00E+00	7E-09	0.0000	4E-10	0.0000	3.43E-13		0.000	19
PCB-1260 (AROCHLOR 1260)				2.70E+00	1.40E-01	1.00E+00	7E-07		2E-07		3.25E-11			
bis(2-ETHYLHEXYL) PHTHALATE	2.00E-02	2.00E-02		1.48E-01	1.00E-01	1.00E+00	4E-08	0.0000	8E-09	0.0000	1.79E-12		0.000	3
DI-n-OCTYLPHTHALATE	4.00E-02	4.00E-02		4.32E-01	1.00E-01	1.00E+00	1E-07	0.0000	2E-08	0.0000	5.20E-12		0.000	4
ACETONE	1.00E-01	1.00E-01	1.00E-01	4.65E-02		1.00E+00	1E-08	0.0000			5.80E-08	0.00	0.000	1
TRICHLOROETHYLENE (TCE)	6.00E-03	6.00E-03	6.00E-03	3.40E-02		1.00E+00	9E-09	0.000001			1.63E-07	0.00	0.000029	35
XYLENES, TOTAL	2.00E-01	2.00E-01	2.90E-02	3.75E-03	1.00E-01	1.00E+00	1E-09	0.0000	2E-10	0.0000	9.61E-09	0.00	0.000	0
								0.00005		0.00001		0.00003		100
											Total HI =	0.00008		

Note:
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
EPC = Exposure Point Concentration
HI = Hazard Index
HQ = Hazard Quotient;
mg/kg-day = milligrams per kilogram per day
RfC = Reference Concentration
RfD_d = Dermal Reference Dose;
RfD_o = Oral Reference Dose
RfD_i = Inhalation Reference Dose

Table C-85
Onsite Excavation Worker Scenario - Potential Excess Lifetime Cancer Risk
Subsurface Soil - Periphery Road
Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation			
Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC (mg/kg)	ABS_d	ABS_{gi}	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	Total ELCR	% Contribution
1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	B2	1.50E+03	1.50E+03	1.50E+03	4.99E-05	3.00E-02	1.00E+00	1.22E-12	1.8E-09	7.30E-14	1.1E-10	5.67E-17	8.5E-14	1.9E-09	2
1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN	B2	1.50E+03	1.50E+03	1.50E+03	7.34E-05	3.00E-02	1.00E+00	1.79E-12	2.7E-09	1.07E-13	1.6E-10	8.34E-17	1.3E-13	2.8E-09	3
1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	B2	1.50E+03	1.50E+03	1.50E+03	1.99E-05	3.00E-02	1.00E+00	4.85E-13	7.3E-10	2.91E-14	4.4E-11	2.26E-17	3.4E-14	7.7E-10	1
1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	B2	1.50E+04	1.50E+04	1.50E+04	5.26E-05	3.00E-02	1.00E+00	1E-12	1.9E-08	8E-14	1.2E-09	5.97E-17	9.0E-13	2.0E-08	24
1,2,3,4,7,8-HEXACHLORODIBENZO-p-DIOXIN	B2	1.50E+04	1.50E+04	1.50E+04	4.74E-06	3.00E-02	1.00E+00	1E-13	1.7E-09	7E-15	1.0E-10	5.38E-18	8.1E-14	1.8E-09	2
1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	B2	1.50E+04	1.50E+04	1.50E+04	5.24E-06	3.00E-02	1.00E+00	1E-13	1.9E-09	8E-15	1.1E-10	5.95E-18	8.9E-14	2.0E-09	2
1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	B2	1.50E+04	1.50E+04	1.50E+04	8.61E-06	3.00E-02	1.00E+00	2E-13	3.1E-09	1E-14	1.9E-10	9.78E-18	1.5E-13	3.3E-09	4
1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	B2	1.50E+04	1.50E+04	1.50E+04	3.38E-06	3.00E-02	1.00E+00	8E-14	1.2E-09	5E-15	7.4E-11	3.84E-18	5.8E-14	1.3E-09	2
2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	B2	1.50E+04	1.50E+04	1.50E+04	3.92E-06	3.00E-02	1.00E+00	1E-13	1.4E-09	6E-15	8.6E-11	4.46E-18	6.7E-14	1.5E-09	2
2,3,4,7,8-PENTACHLORODIBENZOFURAN	B2	7.50E+04	7.50E+04	7.50E+04	5.51E-06	3.00E-02	1.00E+00	1E-13	1.0E-08	8E-15	6.0E-10	6.26E-18	4.7E-13	1.1E-08	12
2,3,7,8-TETRACHLORODIBENZOFURAN	B2	1.50E+04	1.50E+04	1.50E+04	3.57E-06	3.00E-02	1.00E+00	9E-14	1.3E-09	5E-15	7.8E-11	4.05E-18	6.1E-14	1.4E-09	2
2,3,7,8-TETRACHLORODIBENZO-p-DIOXIN	B2	1.50E+05	1.50E+05	1.50E+05	5.00E-06	3.00E-02	1.00E+00	1E-13	1.8E-08	7E-15	1.1E-09	5.68E-18	8.5E-13	1.9E-08	22
OCTACHLORODIBENZOFURAN	B2	1.50E+01	1.50E+01	1.50E+01	1.20E-04	3.00E-02	1.00E+00	3E-12	4.4E-11	2E-13	2.6E-12	1.36E-16	2.0E-15	4.7E-11	0
OCTACHLORODIBENZO-p-DIOXIN	B2	1.50E+01	1.50E+01	1.50E+01	5.20E-04	3.00E-02	1.00E+00	1E-11	1.9E-10	8E-13	1.1E-11	5.91E-16	8.9E-15	2.0E-10	0
Total TCDD-Mammal	--	1.50E+05	1.50E+05	1.50E+05	1.12E-05	3.00E-02	1.00E+00	3E-13	4.1E-08	2E-14	2.5E-09	1.27E-17	1.9E-12	4.3E-08	50
PCB-1260 (AROCHLOR 1260)	B2	2.00E+00	2.00E+00	2.00E+00	6.85E-01	1.40E-01	1.00E+00	2E-08	3.3E-08	5E-09	9.3E-09	7.78E-13	1.6E-12	4.3E-08	50
Total Risk									7.4E-08		1.2E-08		3.5E-12		100
													Total Risk =	8.6E-08	

Note:
Cancer WOE Classifications:
Group A: Human carcinogen
Group B (B1, B2): Probable human carcinogen
Group C: Possible human carcinogen
Group D: Not classifiable
Group E: No evidence of carcinogenicity
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
ELCR = Excess Lifetime Cancer Risk
EPC = Exposure Point Concentration
mg/kg-day = milligrams per kilogram per day
SF_d = Dermal Slope Factor
SF_o = Oral Slope Factor
SF_i = Inhalation Slope Factor
WOE = Weight of Evidence

Table C-86
Onsite Excavation Worker Scenario - Potential Noncarcinogenic Risk
Subsurface Soil - Periphery Road
Fort Richardson - Operable Unit E

Chemical	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC (mg/kg)	ABS_d	ABS_{gi}	Ingestion CDI (mg/kg-day)	Ingestion HQ	Dermal CDI (mg/kg-day)	Dermal HQ	Inhalation CDI (mg/kg-day)	Inhalation HQ	Total HI	% Contribution
1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN				4.99E-05	3.00E-02	1.00E+00	1.29E-11		7.74E-13		6.01E-16			#DIV/0!
1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN				7.34E-05	3.00E-02	1.00E+00	1.90E-11		1.14E-12		8.84E-16			#DIV/0!
1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN				1.99E-05	3.00E-02	1.00E+00	5.14E-12		3.09E-13		2.40E-16			#DIV/0!
1,2,3,4,7,8-HEXACHLORODIBENZOFURAN				5.26E-05	3.00E-02	1.00E+00	1E-11		8E-13		6.33E-16			#DIV/0!
1,2,3,4,7,8-HEXACHLORODIBENZO-p-DIOXIN				4.74E-06	3.00E-02	1.00E+00	1E-12		7E-14		5.71E-17			#DIV/0!
1,2,3,6,7,8-HEXACHLORODIBENZOFURAN				5.24E-06	3.00E-02	1.00E+00	1E-12		8E-14		6.31E-17			#DIV/0!
1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN				8.61E-06	3.00E-02	1.00E+00	2E-12		1E-13		1.04E-16			#DIV/0!
1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN				3.38E-06	3.00E-02	1.00E+00	9E-13		5E-14		4.07E-17			#DIV/0!
2,3,4,6,7,8-HEXACHLORODIBENZOFURAN				3.92E-06	3.00E-02	1.00E+00	1E-12		6E-14		4.73E-17			#DIV/0!
2,3,4,7,8-PENTACHLORODIBENZOFURAN				5.51E-06	3.00E-02	1.00E+00	1E-12		9E-14		6.64E-17			#DIV/0!
2,3,7,8-TETRACHLORODIBENZOFURAN				3.57E-06	3.00E-02	1.00E+00	9E-13		6E-14		4.30E-17			#DIV/0!
2,3,7,8-TETRACHLORODIBENZO-p-DIOXIN				5.00E-06	3.00E-02	1.00E+00	1E-12		8E-14		6.02E-17			#DIV/0!
OCTACHLORODIBENZOFURAN				1.20E-04	3.00E-02	1.00E+00	3E-11		2E-12		1.45E-15			#DIV/0!
OCTACHLORODIBENZO-p-DIOXIN				5.20E-04	3.00E-02	1.00E+00	1E-10		8E-12		6.26E-15			#DIV/0!
Total TCDD-Mammal				1.12E-05	3.00E-02	1.00E+00	3E-12		2E-13		1.35E-16			#DIV/0!
PCB-1260 (AROCHLOR 1260)				6.85E-01	1.40E-01	1.00E+00	2E-07		5E-08		8.25E-12			#DIV/0!
											Total HI =			#DIV/0!

Note:
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
EPC = Exposure Point Concentration
HI = Hazard Index
HQ = Hazard Quotient;
mg/kg-day = milligrams per kilogram per day
RfC = Reference Concentration
RfD_d = Dermal Reference Dose;
RfD_o = Oral Reference Dose
RfD_i = Inhalation Reference Dose

Table C-87
Onsite Excavation Worker Scenario - Potential Excess Lifetime Cancer Risk
Subsurface Soil - Soil Stockpile
Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation			%
Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC (mg/kg)	ABS_d	ABS_{gi}	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	Total ELCR	Contribution
1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	B2	1.50E+03	1.50E+03	1.50E+03	1.27E-05	3.00E-02	1.00E+00	3.10E-13	4.6E-10	1.86E-14	2.8E-11	1.44E-17	2.2E-14	4.9E-10	2
1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN	B2	1.50E+03	1.50E+03	1.50E+03	1.53E-05	3.00E-02	1.00E+00	3.73E-13	5.6E-10	2.24E-14	3.4E-11	1.74E-17	2.6E-14	5.9E-10	2
1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	B2	1.50E+03	1.50E+03	1.50E+03	5.64E-06	3.00E-02	1.00E+00	1.37E-13	2.1E-10	8.25E-15	1.2E-11	6.41E-18	9.6E-15	2.2E-10	1
1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	B2	1.50E+04	1.50E+04	1.50E+04	1.01E-05	3.00E-02	1.00E+00	2E-13	3.7E-09	1E-14	2.2E-10	1.15E-17	1.7E-13	3.9E-09	13
1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	B2	1.50E+04	1.50E+04	1.50E+04	1.33E-06	3.00E-02	1.00E+00	3E-14	4.9E-10	2E-15	2.9E-11	1.51E-18	2.3E-14	5.1E-10	2
1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	B2	1.50E+04	1.50E+04	1.50E+04	7.05E-07	3.00E-02	1.00E+00	2E-14	2.6E-10	1E-15	1.5E-11	8.01E-19	1.2E-14	2.7E-10	1
2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	B2	1.50E+04	1.50E+04	1.50E+04	1.45E-06	3.00E-02	1.00E+00	4E-14	5.3E-10	2E-15	3.2E-11	1.64E-18	2.5E-14	5.6E-10	2
2,3,4,7,8-PENTACHLORODIBENZOFURAN	B2	7.50E+04	7.50E+04	7.50E+04	5.00E-07	3.00E-02	1.00E+00	1E-14	9.1E-10	7E-16	5.5E-11	5.68E-19	4.3E-14	9.7E-10	3
2,3,7,8-TETRACHLORODIBENZOFURAN	B2	1.50E+04	1.50E+04	1.50E+04	8.19E-07	3.00E-02	1.00E+00	2E-14	3.0E-10	1E-15	1.8E-11	9.30E-19	1.4E-14	3.2E-10	1
OCTACHLORODIBENZOFURAN	B2	1.50E+01	1.50E+01	1.50E+01	3.33E-05	3.00E-02	1.00E+00	8E-13	1.2E-11	5E-14	7.3E-13	3.78E-17	5.7E-16	1.3E-11	0
OCTACHLORODIBENZO-p-DIOXIN	B2	1.50E+01	1.50E+01	1.50E+01	8.54E-05	3.00E-02	1.00E+00	2E-12	3.1E-11	1E-13	1.9E-12	9.70E-17	1.5E-15	3.3E-11	0
Total TCDD-Mammal	--	1.50E+05	1.50E+05	1.50E+05	1.56E-06	3.00E-02	1.00E+00	4E-14	5.7E-09	2E-15	3.4E-10	1.77E-18	2.7E-13	6.0E-09	20
PCB-1260 (AROCHLOR 1260)	B2	2.00E+00	2.00E+00	2.00E+00	3.93E-01	1.40E-01	1.00E+00	1E-08	1.9E-08	3E-09	5.4E-09	4.46E-13	8.9E-13	2.4E-08	80
Total Risk									2.5E-08		5.7E-09		1.2E-12		100
												Total Risk =	3.1E-08		

Note:
Cancer WOE Classifications:
Group A: Human carcinogen
Group B (B1, B2): Probable human carcinogen
Group C: Possible human carcinogen
Group D: Not classifiable
Group E: No evidence of carcinogenicity
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
ELCR = Excess Lifetime Cancer Risk
EPC = Exposure Point Concentration
mg/kg-day = milligrams per kilogram per day
SF_d = Dermal Slope Factor
SF_o = Oral Slope Factor
SF_i = Inhalation Slope Factor
WOE = Weight of Evidence

Table C-88
Onsite Excavation Worker Scenario - Potential Noncarcinogenic Risk
Subsurface Soil - Soil Stockpile
Fort Richardson - Operable Unit E

Chemical	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC (mg/kg)	ABS_d	ABS_{gi}	Ingestion CDI (mg/kg-day)	Ingestion HQ	Dermal CDI (mg/kg-day)	Dermal HQ	Inhalation CDI (mg/kg-day)	Inhalation HQ	Total HI	% Contribution
1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN				1.27E-05	3.00E-02	1.00E+00	3.29E-12		1.97E-13		1.53E-16			#DIV/0!
1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN				1.53E-05	3.00E-02	1.00E+00	3.95E-12		2.37E-13		1.84E-16			#DIV/0!
1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN				5.64E-06	3.00E-02	1.00E+00	1.46E-12		8.75E-14		6.80E-17			#DIV/0!
1,2,3,4,7,8-HEXACHLORODIBENZOFURAN				1.01E-05	3.00E-02	1.00E+00	3E-12		2E-13		1.22E-16			#DIV/0!
1,2,3,6,7,8-HEXACHLORODIBENZOFURAN				1.33E-06	3.00E-02	1.00E+00	3E-13		2E-14		1.60E-17			#DIV/0!
1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN				7.05E-07	3.00E-02	1.00E+00	2E-13		1E-14		8.49E-18			#DIV/0!
2,3,4,6,7,8-HEXACHLORODIBENZOFURAN				1.45E-06	3.00E-02	1.00E+00	4E-13		2E-14		1.74E-17			#DIV/0!
2,3,4,7,8-PENTACHLORODIBENZOFURAN				5.00E-07	3.00E-02	1.00E+00	1E-13		8E-15		6.02E-18			#DIV/0!
2,3,7,8-TETRACHLORODIBENZOFURAN				8.19E-07	3.00E-02	1.00E+00	2E-13		1E-14		9.86E-18			#DIV/0!
OCTACHLORODIBENZOFURAN				3.33E-05	3.00E-02	1.00E+00	9E-12		5E-13		4.01E-16			#DIV/0!
OCTACHLORODIBENZO-p-DIOXIN				8.54E-05	3.00E-02	1.00E+00	2E-11		1E-12		1.03E-15			#DIV/0!
Total TCDD-Mammal				1.56E-06	3.00E-02	1.00E+00	4E-13		2E-14		1.88E-17			#DIV/0!
PCB-1260 (AROCHLOR 1260)				3.93E-01	1.40E-01	1.00E+00	1E-07		3E-08		4.73E-12			#DIV/0!
												Total HI =		#DIV/0!

Note:
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
EPC = Exposure Point Concentration
HI = Hazard Index
HQ = Hazard Quotient;
mg/kg-day = milligrams per kilogram per day
RfC = Reference Concentration
RfD_d = Dermal Reference Dose;
RfD_o = Oral Reference Dose
RfD_i = Inhalation Reference Dose

Table C-89

Onsite Excavation Worker Scenario - Potential Excess Lifetime Cancer Risk

Subsurface Soil - Transformer Mounting

Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation			
Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC (mg/kg)	ABS_d	ABS_{gi}	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	Total ELCR	% Contribution
1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	B2	1.50E+03	1.50E+03	1.50E+03	1.37E-04	3.00E-02	1.00E+00	3.34E-12	5.0E-09	2.01E-13	3.0E-10	1.56E-16	2.3E-13	5.3E-09	0
1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN	B2	1.50E+03	1.50E+03	1.50E+03	3.96E-04	3.00E-02	1.00E+00	9.63E-12	1.4E-08	5.78E-13	8.7E-10	4.49E-16	6.7E-13	1.5E-08	0
1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	B2	1.50E+03	1.50E+03	1.50E+03	1.66E-05	3.00E-02	1.00E+00	4.04E-13	6.1E-10	2.42E-14	3.6E-11	1.88E-17	2.8E-14	6.4E-10	0
1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	B2	1.50E+04	1.50E+04	1.50E+04	2.64E-05	3.00E-02	1.00E+00	6E-13	9.6E-09	4E-14	5.8E-10	3.00E-17	4.5E-13	1.0E-08	0
1,2,3,4,7,8-HEXACHLORODIBENZO-p-DIOXIN	B2	1.50E+04	1.50E+04	1.50E+04	2.31E-06	3.00E-02	1.00E+00	6E-14	8.4E-10	3E-15	5.1E-11	2.62E-18	3.9E-14	8.9E-10	0
1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	B2	1.50E+04	1.50E+04	1.50E+04	4.75E-06	3.00E-02	1.00E+00	1E-13	1.7E-09	7E-15	1.0E-10	5.39E-18	8.1E-14	1.8E-09	0
1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	B2	1.50E+04	1.50E+04	1.50E+04	9.22E-06	3.00E-02	1.00E+00	2E-13	3.4E-09	1E-14	2.0E-10	1.05E-17	1.6E-13	3.6E-09	0
1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	B2	1.50E+04	1.50E+04	1.50E+04	5.21E-06	3.00E-02	1.00E+00	1E-13	1.9E-09	8E-15	1.1E-10	5.92E-18	8.9E-14	2.0E-09	0
1,2,3,7,8-PENTACHLORODIBENZOFURAN	B2	7.50E+03	7.50E+03	7.50E+03	8.32E-05	3.00E-02	1.00E+00	2E-12	1.5E-08	1E-13	9.1E-10	9.45E-17	7.1E-13	1.6E-08	0
1,2,3,7,8-PENTACHLORODIBENZO-p-DIOXIN	B2	1.50E+05	1.50E+05	1.50E+05	4.40E-07	3.00E-02	1.00E+00	1E-14	1.6E-09	6E-16	9.6E-11	4.99E-19	7.5E-14	1.7E-09	0
2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	B2	1.50E+04	1.50E+04	1.50E+04	4.39E-06	3.00E-02	1.00E+00	1E-13	1.6E-09	6E-15	9.6E-11	4.99E-18	7.5E-14	1.7E-09	0
2,3,4,7,8-PENTACHLORODIBENZOFURAN	B2	7.50E+04	7.50E+04	7.50E+04	3.00E-06	3.00E-02	1.00E+00	7E-14	5.5E-09	4E-15	3.3E-10	3.41E-18	2.6E-13	5.8E-09	0
2,3,7,8-TETRACHLORODIBENZOFURAN	B2	1.50E+04	1.50E+04	1.50E+04	3.83E-06	3.00E-02	1.00E+00	9E-14	1.4E-09	6E-15	8.4E-11	4.35E-18	6.5E-14	1.5E-09	0
2,3,7,8-TETRACHLORODIBENZO-p-DIOXIN	B2	1.50E+05	1.50E+05	1.50E+05	3.50E-07	3.00E-02	1.00E+00	9E-15	1.3E-09	5E-16	7.7E-11	3.97E-19	6.0E-14	1.4E-09	0
OCTACHLORODIBENZOFURAN	B2	1.50E+01	1.50E+01	1.50E+01	6.01E-04	3.00E-02	1.00E+00	1E-11	2.2E-10	9E-13	1.3E-11	6.82E-16	1.0E-14	2.3E-10	0
OCTACHLORODIBENZO-p-DIOXIN	B2	1.50E+01	1.50E+01	1.50E+01	3.46E-03	3.00E-02	1.00E+00	8E-11	1.3E-09	5E-12	7.6E-11	3.93E-15	5.9E-14	1.3E-09	0
Total TCDD-Mammal	--	1.50E+05	1.50E+05	1.50E+05	1.45E-05	3.00E-02	1.00E+00	4E-13	5.3E-08	2E-14	3.2E-09	1.64E-17	2.5E-12	5.6E-08	1
PCB-1260 (AROCHLOR 1260)	B2	2.00E+00	2.00E+00	2.00E+00	6.11E+01	1.40E-01	1.00E+00	1E-06	**3.0E-06**	4E-07	8.3E-07	6.94E-11	1.4E-10	**3.8E-06**	99
Total Risk									**3.0E-06**		8.4E-07		1.4E-10		100
													Total Risk =	**3.9E-06**	

Note:

Cancer WOE Classifications:

- Group A: Human carcinogen
- Group B (B1, B2): Probable human carcinogen
- Group C: Possible human carcinogen
- Group D: Not classifiable
- Group E: No evidence of carcinogenicity

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

ELCR = Excess Lifetime Cancer Risk

EPC = Exposure Point Concentration

mg/kg-day = milligrams per kilogram per day

SF_d = Dermal Slope Factor

SF_o = Oral Slope Factor

SF_i = Inhalation Slope Factor

WOE = Weight of Evidence

Table C-90
Onsite Excavation Worker Scenario - Potential Noncarcinogenic Risk
Subsurface Soil - Transformer Mounting
Fort Richardson - Operable Unit E

Chemical	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC (mg/kg)	ABS_d	ABS_{gi}	Ingestion CDI (mg/kg-day)	Ingestion HQ	Dermal CDI (mg/kg-day)	Dermal HQ	Inhalation CDI (mg/kg-day)	Inhalation HQ	Total HI	% Contribution
1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN				1.37E-04	3.00E-02	1.00E+00	3.55E-11		2.13E-12		1.65E-15			#DIV/0!
1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN				3.96E-04	3.00E-02	1.00E+00	1.02E-10		6.13E-12		4.76E-15			#DIV/0!
1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN				1.66E-05	3.00E-02	1.00E+00	4.28E-12		2.57E-13		2.00E-16			#DIV/0!
1,2,3,4,7,8-HEXACHLORODIBENZOFURAN				2.64E-05	3.00E-02	1.00E+00	7E-12		4E-13		3.18E-16			#DIV/0!
1,2,3,4,7,8-HEXACHLORODIBENZO-p-DIOXIN				2.31E-06	3.00E-02	1.00E+00	6E-13		4E-14		2.78E-17			#DIV/0!
1,2,3,6,7,8-HEXACHLORODIBENZOFURAN				4.75E-06	3.00E-02	1.00E+00	1E-12		7E-14		5.72E-17			#DIV/0!
1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN				9.22E-06	3.00E-02	1.00E+00	2E-12		1E-13		1.11E-16			#DIV/0!
1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN				5.21E-06	3.00E-02	1.00E+00	1E-12		8E-14		6.28E-17			#DIV/0!
1,2,3,7,8-PENTACHLORODIBENZOFURAN				8.32E-05	3.00E-02	1.00E+00	2E-11		1E-12		1.00E-15			#DIV/0!
1,2,3,7,8-PENTACHLORODIBENZO-p-DIOXIN				4.40E-07	3.00E-02	1.00E+00	1E-13		7E-15		5.29E-18			#DIV/0!
2,3,4,6,7,8-HEXACHLORODIBENZOFURAN				4.39E-06	3.00E-02	1.00E+00	1E-12		7E-14		5.29E-17			#DIV/0!
2,3,4,7,8-PENTACHLORODIBENZOFURAN				3.00E-06	3.00E-02	1.00E+00	8E-13		5E-14		3.61E-17			#DIV/0!
2,3,7,8-TETRACHLORODIBENZOFURAN				3.83E-06	3.00E-02	1.00E+00	1E-12		6E-14		4.61E-17			#DIV/0!
2,3,7,8-TETRACHLORODIBENZO-p-DIOXIN				3.50E-07	3.00E-02	1.00E+00	9E-14		5E-15		4.21E-18			#DIV/0!
OCTACHLORODIBENZOFURAN				6.01E-04	3.00E-02	1.00E+00	2E-10		9E-12		7.23E-15			#DIV/0!
OCTACHLORODIBENZO-p-DIOXIN				3.46E-03	3.00E-02	1.00E+00	9E-10		5E-11		4.17E-14			#DIV/0!
Total TCDD-Mammal				1.45E-05	3.00E-02	1.00E+00	4E-12		2E-13		1.74E-16			#DIV/0!
PCB-1260 (AROCHLOR 1260)				6.11E+01	1.40E-01	1.00E+00	2E-05		4E-06		7.36E-10			#DIV/0!
											Total HI =			#DIV/0!

Note:
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
EPC = Exposure Point Concentration
HI = Hazard Index
HQ = Hazard Quotient;
mg/kg-day = milligrams per kilogram per day
RfC = Reference Concentration
RfD_d = Dermal Reference Dose;
RfD_o = Oral Reference Dose
RfD_i = Inhalation Reference Dose

Table C-91
Hypothetical Future Residential Scenario - Potential Excess Lifetime Cancer Risk
Building 35-752 Groundwater
Fort Richardson - Operable Unit E

									Ingestion		Dermal		Inhalation		Total ELCR	%
Chemical	WOE	SF_o $(mg/kg\text{-}day)^{-1}$	SF_d $(mg/kg\text{-}day)^{-1}$	SF_i $(mg/kg\text{-}day)^{-1}$	EPC	ABS_{gi}	Kp	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR		Contribution
PCB-1260 (AROCHLOR 1260)	B2	2.00E+00	2.00E+00	2.00E+00	4.01E-05	1	5.48E+00	5.98E-07	**1.2E-06**	6.63E-06	**1.3E-05**	3.02E-06		**1.4E-05**	30
2-METHYLNAPHTHALENE	--				2.95E-03	1	1.42E-02	4.40E-05		1.26E-06		2.22E-04			
ACENAPHTHENE	D				2.40E-04	1	1.33E-01	3.58E-06		9.63E-07		1.81E-05			
ACENAPHTHYLENE	--				6.65E-05	1	1.41E-01	9.94E-07		2.83E-07		5.01E-06			
bis(2-ETHYLHEXYL) PHTHALATE	--	1.40E-02	1.40E-02		6.46E-03	1	2.50E-02	9.65E-05	**1.4E-06**	4.87E-06	6.8E-08	4.87E-04		1.4E-06	3
DI-n-BUTYL PHTHALATE	D				2.86E-03	1	2.40E-02	4.27E-05		2.07E-06		2.15E-04			
FLUORENE	D				7.10E-04	1	1.70E-01	1.06E-05		3.64E-06		5.35E-05			
PHENANTHRENE	D				1.30E-04	1	1.40E-01	1.94E-06		5.49E-07		9.79E-06			
1,1,1-TRICHLOROETHANE	D				6.55E-04	1	1.30E-02	9.79E-06		2.57E-07		4.94E-05			
1,1-DICHLOROETHANE	C				2.40E-04	1	6.70E-03	3.58E-06		4.85E-08		1.81E-05			
1,2,4-TRIMETHYLBENZENE	--				4.80E-02	1	1.33E-01	7.17E-04		1.93E-04		3.62E-03			
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	--				4.40E-02	1	9.44E-02	6.57E-04		1.25E-04		3.32E-03			
ACETONE	D				8.03E-03	1	5.69E-04	1.20E-04		1.38E-07		6.05E-04			
BENZENE	A	5.50E-02	5.50E-02	2.90E-02	5.10E-03	1	1.50E-02	7.62E-05	**4.2E-06**	2.31E-06	1.3E-07	3.84E-04	**1.1E-05**	1.5E-05	32
CHLOROETHANE	--	2.90E-03	2.90E-03	2.90E-03	1.40E-04	1	6.10E-03	2.09E-06	6.1E-09	2.58E-08	7.5E-11	1.05E-05	3.1E-08	3.7E-08	0
CHLOROFORM	B2				2.20E-04	1	6.80E-03	3.28E-06		4.51E-08		1.66E-05			
CHLOROMETHANE	--	1.30E-02	1.30E-02	6.30E-03	4.00E-03	1	3.30E-03	5.97E-05	7.8E-07	3.98E-07	5.2E-09	3.01E-04	**1.9E-06**	2.7E-06	6
cis-1,2-DICHLOROETHYLENE	D				9.60E-03	1	1.49E-02	1.43E-04		4.32E-06		7.23E-04			
ETHYLBENZENE	D				4.58E-02	1	4.90E-02	6.83E-04		6.76E-05		3.45E-03			
ISOPROPYLBENZENE (CUMENE)	D				4.90E-03	1	1.40E-01	7.32E-05		2.07E-05		3.69E-04			
METHYLENE CHLORIDE	B2	7.50E-03	7.50E-03	1.65E-03	1.90E-03	1	3.50E-03	2.84E-05	2.1E-07	2.01E-07	1.5E-09	1.43E-04	2.4E-07	4.5E-07	1
NAPHTHALENE	C				7.25E-03	1	4.70E-02	1.08E-04		1.03E-05		5.46E-04			
n-BUTYLBENZENE	--				2.28E-03	1	1.23E-01	3.40E-05		8.46E-06		1.72E-04			
n-PROPYLBENZENE	--				9.75E-03	1	7.08E-02	1.46E-04		2.08E-05		7.35E-04			
O-XYLENE (1,2-DIMETHYLBENZENE)	D				3.90E-02	1	5.30E-03	5.82E-04		6.24E-06		2.94E-03			
P-CYMENE (p-ISOPROPYLTOLUENE)	D				1.00E-03	1	1.40E-01	1.49E-05		4.22E-06		7.53E-05			
SEC-BUTYLBENZENE	--				1.40E-03	1	1.12E-01	2.09E-05		4.73E-06		1.05E-04			
STYRENE	C				1.90E-03	1	3.70E-02	2.84E-05		2.12E-06		1.43E-04			
TETRACHLOROETHYLENE (PCE)	C-B2	5.20E-02	5.20E-02	1.00E-02	6.40E-04	1	3.30E-02	9.56E-06	5.0E-07	6.37E-07	3.3E-08	4.82E-05	4.8E-07	1.0E-06	2
TOLUENE	D				5.05E-03	1	3.10E-02	7.54E-05		4.72E-06		3.80E-04			
TRICHLOROETHYLENE (TCE)	B2	1.10E-02	1.10E-02	6.00E-03	8.60E-03	1	1.20E-02	1.28E-04	**1.4E-06**	3.11E-06	3.4E-08	6.48E-04	**3.9E-06**	5.3E-06	11
VINYL ACETATE	--				1.80E-03	1	1.88E-03	2.69E-05		1.02E-07		1.36E-04			
VINYL CHLORIDE	--	1.50E+00	1.50E+00	3.10E-02	2.88E-04	1	5.60E-03	4.31E-06	**6.5E-06**	4.88E-08	7.3E-08	2.17E-05	6.7E-07	7.2E-06	15
XYLENES, m & p	D				6.20E-02	1	5.30E-03	9.26E-04		9.92E-06		4.67E-03			
XYLENES, TOTAL	D				9.33E-02	1	5.30E-03	1.39E-03		1.49E-05		7.03E-03			
Total Risk									**1.6E-05**		**1.4E-05**		**1.8E-05**		100
													Total Risk =	**4.8E-05**	

Note:
Cancer WOE Classifications:
Group A: Human carcinogen
Group B (B1, B2): Probable human carcinogen
Group C: Possible human carcinogen
Group D: Not classifiable
Group E: No evidence of carcinogenicity
ABS_d = Dermal Absorption Factor
ABS_g = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
ELCR = Excess Lifetime Cancer Risk
EPC = Exposure Point Concentration
mg/kg-day = milligrams per kilogram per day
SF_d = Dermal Slope Factor
SF_o = Oral Slope Factor
SF_i = Inhalation Slope Factor
WOE = Weight of Evidence

Table C-92
Hypothetical Future Residential Scenario - Potential Noncarcinogenic Risk
Building 35-752 Groundwater
Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation		Total HQ	%
Chemical	WOE	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC	ABS_{gi}	Kp	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ		Contribution
PCB-1260 (AROCHLOR 1260)	B2				4.01E-05	1	5.48E+00	1.40E-06		1.55E-05		7.04E-06			
2-METHYLNAPHTHALENE	--	9.00E-03	9.00E-03		2.95E-03	1	1.42E-02	1.03E-04	0.011	2.95E-06	3.28E-04	5.19E-04		0.012	0
ACENAPHTHENE	D	6.00E-02	6.00E-02		2.40E-04	1	1.33E-01	8.36E-06	1.39E-04	2.25E-06	3.75E-05	4.22E-05		1.77E-04	0
ACENAPHTHYLENE	--	6.00E-02	6.00E-02		6.65E-05	1	1.41E-01	2.32E-06	3.86E-05	6.61E-07	1.10E-05	1.17E-05		4.97E-05	0
bis(2-ETHYLHEXYL) PHTHALATE	--	2.00E-02	2.00E-02		6.46E-03	1	2.50E-02	2.25E-04	0.011	1.14E-05	5.69E-04	1.14E-03		0.012	0
DI-n-BUTYL PHTHALATE	D	1.00E-01	1.00E-01		2.86E-03	1	2.40E-02	9.95E-05	9.95E-04	4.83E-06	4.83E-05	5.02E-04		0.0010	0
FLUORENE	D	4.00E-02	4.00E-02		7.10E-04	1	1.70E-01	2.47E-05	6.18E-04	8.50E-06	2.12E-04	1.25E-04		8.31E-04	0
PHENANTHRENE	D	3.00E-01	3.00E-01		1.30E-04	1	1.40E-01	4.53E-06	1.51E-05	1.28E-06	4.27E-06	2.29E-05		1.94E-05	0
1,1,1-TRICHLOROETHANE	D	2.80E-01	2.80E-01	6.30E-01	6.55E-04	1	1.30E-02	2.28E-05	8.16E-05	6.00E-07	2.14E-06	1.15E-04	1.83E-04	2.67E-04	0
1,1-DICHLOROETHANE	C	1.00E-01	1.00E-01	1.43E-01	2.40E-04	1	6.70E-03	8.36E-06	8.36E-05	1.13E-07	1.13E-06	4.22E-05	2.95E-04	3.80E-04	0
1,2,4-TRIMETHYLBENZENE	--	5.00E-02	5.00E-02	1.70E-03	4.80E-02	1	1.33E-01	1.67E-03	0.033	4.50E-04	0.0090	8.44E-03	**5.0**	5.0	38
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	--	5.00E-02	5.00E-02	1.70E-03	4.40E-02	1	9.44E-02	1.53E-03	0.031	2.92E-04	0.0058	7.74E-03	**4.6**	4.6	35
ACETONE	D	1.00E-01	1.00E-01	1.00E-01	8.03E-03	1	5.69E-04	2.80E-04	0.0028	3.22E-07	3.22E-06	1.41E-03	0.014	0.017	0
BENZENE	A	4.00E-03	4.00E-03	8.60E-03	5.10E-03	1	1.50E-02	1.78E-04	0.044	5.39E-06	0.0013	8.97E-04	0.10	0.15	1
CHLOROETHANE	--	4.00E-01	4.00E-01	2.86E+00	1.40E-04	1	6.10E-03	4.88E-06	1.22E-05	6.01E-08	1.50E-07	2.46E-05	8.61E-06	2.10E-05	0
CHLOROFORM	B2	1.00E-02	1.00E-02	8.60E-04	2.20E-04	1	6.80E-03	7.66E-06	7.66E-04	1.05E-07	1.05E-05	3.87E-05	0.045	0.046	0
CHLOROMETHANE	--			8.60E-02	4.00E-03	1	3.30E-03	1.39E-04		9.29E-07		7.03E-04	0.0082	0.0082	0
cis-1,2-DICHLOROETHYLENE	D	1.00E-02	1.00E-02	1.00E-02	9.60E-03	1	1.49E-02	3.34E-04	0.033	1.01E-05	0.0010	1.69E-03	0.17	0.20	2
ETHYLBENZENE	D	1.00E-01	1.00E-01	2.90E-01	4.58E-02	1	4.90E-02	1.59E-03	0.016	1.58E-04	0.0016	8.04E-03	0.028	0.045	0
ISOPROPYLBENZENE (CUMENE)	D	1.00E-01	1.00E-01	1.10E-01	4.90E-03	1	1.40E-01	1.71E-04	0.0017	4.83E-05	4.83E-04	8.61E-04	0.0078	0.010	0
METHYLENE CHLORIDE	B2	6.00E-02	6.00E-02	8.57E-01	1.90E-03	1	3.50E-03	6.62E-05	0.0011	4.68E-07	7.80E-06	3.34E-04	3.90E-04	0.0015	0
NAPHTHALENE	C	2.00E-02	2.00E-02	8.57E-04	7.25E-03	1	4.70E-02	2.53E-04	0.013	2.40E-05	0.0012	1.27E-03	**1.5**	1.5	11
n-BUTYLBENZENE	--	4.00E-02	4.00E-02	4.00E-02	2.28E-03	1	1.23E-01	7.94E-05	0.0020	1.97E-05	4.94E-04	4.01E-04	0.010	0.013	0
n-PROPYLBENZENE	--	4.00E-02	4.00E-02	4.00E-02	9.75E-03	1	7.08E-02	3.40E-04	0.0085	4.86E-05	0.0012	1.71E-03	0.043	0.053	0
O-XYLENE (1,2-DIMETHYLBENZENE)	D	2.00E-01	2.00E-01	2.90E-02	3.90E-02	1	5.30E-03	1.36E-03	0.0068	1.46E-05	7.28E-05	6.86E-03	0.24	0.24	2
P-CYMENE (p-ISOPROPYLTOLUENE)	D	1.00E-01	1.00E-01	1.10E-01	1.00E-03	1	1.40E-01	3.48E-05	3.48E-04	9.86E-06	9.86E-05	1.76E-04	0.0016	0.0020	0
SEC-BUTYLBENZENE	--	4.00E-02	4.00E-02	4.00E-02	1.40E-03	1	1.12E-01	4.88E-05	0.0012	1.10E-05	2.76E-04	2.46E-04	0.0062	0.0076	0
STYRENE	C	2.00E-01	2.00E-01	2.90E-01	1.90E-03	1	3.70E-02	6.62E-05	3.31E-04	4.95E-06	2.47E-05	3.34E-04	0.0012	0.0015	0
TETRACHLOROETHYLENE (PCE)	C-B2	1.00E-02	1.00E-02	1.70E-01	6.40E-04	1	3.30E-02	2.23E-05	0.0022	1.49E-06	1.49E-04	1.13E-04	6.62E-04	0.0030	0
TOLUENE	D	2.00E-01	2.00E-01	1.10E-01	5.05E-03	1	3.10E-02	1.76E-04	8.79E-04	1.10E-05	5.51E-05	8.87E-04	0.0081	0.0090	0
TRICHLOROETHYLENE (TCE)	B2	6.00E-03	6.00E-03	6.00E-03	8.60E-03	1	1.20E-02	3.00E-04	0.050	7.27E-06	0.0012	1.51E-03	0.25	0.30	2
VINYL ACETATE	--	1.00E+00	1.00E+00	5.71E-02	1.80E-03	1	1.88E-03	6.27E-05	6.27E-05	2.38E-07	2.38E-07	3.16E-04	0.0055	0.0056	0
VINYL CHLORIDE	--	3.00E-03	3.00E-03	2.86E-02	2.88E-04	1	5.60E-03	1.01E-05	0.0034	1.14E-07	3.79E-05	5.07E-05	0.0018	0.0052	0
XYLENES, m & p	D	2.00E-01	2.00E-01	2.90E-02	6.20E-02	1	5.30E-03	2.16E-03	0.011	2.31E-05	1.16E-04	1.09E-02	0.38	0.39	3
XYLENES, TOTAL	D	2.00E-01	2.00E-01	2.90E-02	9.33E-02	1	5.30E-03	3.25E-03	0.016	3.48E-05	1.74E-04	1.64E-02	0.57	0.58	4
Hazard Index									0.3		0.03		**13**		100
												Total HI =	**13**		

Note:
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
EPC = Exposure Point Concentration
HI = Hazard Index
HQ = Hazard Quotient;
mg/kg-day = milligrams per kilogram per day
RfC = Reference Concentration
RfD_d = Dermal Reference Dose;
RfD_o = Oral Reference Dose
RfD_i = Inhalation Reference Dose

Table C-93
Hypothetical Future Residential Scenario - Potential Excess Lifetime Cancer Risk
Building 35-752 Groundwater - Well 2982
Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation		Total ELCR	%
Chemical	WOE	SF_o $(mg/kg\text{-}day)^{-1}$	SF_d $(mg/kg\text{-}day)^{-1}$	SF_i $(mg/kg\text{-}day)^{-1}$	EPC	ABS_{gi}	Kp	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR		Contribution
2-METHYLNAPHTHALENE	--				2.95E-03	1.00E+00	1.42E-02	4.40E-05		1.26E-06		2.22E-04			
DI-n-BUTYL PHTHALATE	D				1.20E-03	1.00E+00	2.40E-02	1.79E-05		8.69E-07		9.04E-05			
FLUORENE	D				8.93E-05	1.00E+00	1.70E-01	1.33E-06		4.58E-07		6.72E-06			
1,1,1-TRICHLOROETHANE	D				8.70E-04	1.00E+00	1.30E-02	1.30E-05		3.41E-07		6.55E-05			
1,2,4-TRIMETHYLBENZENE	--				4.80E-02	1.00E+00	1.33E-01	7.17E-04		1.93E-04		3.62E-03			
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	--				4.40E-02	1.00E+00	9.44E-02	6.57E-04		1.25E-04		3.32E-03			
ACETONE	D				8.03E-03	1.00E+00	5.69E-04	1.20E-04		1.38E-07		6.05E-04			
BENZENE	A	5.50E-02	5.50E-02	2.90E-02	2.70E-03	1.00E+00	1.50E-02	4.03E-05	**2.2E-06**	1.22E-06	6.7E-08	2.03E-04	**5.9E-06**	8.2E-06	94
ETHYLBENZENE	D				4.58E-02	1.00E+00	4.90E-02	6.83E-04		6.76E-05		3.45E-03			
ISOPROPYLBENZENE (CUMENE)	D				4.90E-03	1.00E+00	1.40E-01	7.32E-05		2.07E-05		3.69E-04			
NAPHTHALENE	C				7.25E-03	1.00E+00	4.70E-02	1.08E-04		1.03E-05		5.46E-04			
n-BUTYLBENZENE	--				2.28E-03	1.00E+00	1.23E-01	3.40E-05		8.46E-06		1.72E-04			
n-PROPYLBENZENE	--				9.75E-03	1.00E+00	7.08E-02	1.46E-04		2.08E-05		7.35E-04			
O-XYLENE (1,2-DIMETHYLBENZENE)	D				3.63E-02	1.00E+00	5.30E-03	5.42E-04		5.80E-06		2.73E-03			
P-CYMENE (p-ISOPROPYLTOLUENE)	D				1.00E-03	1.00E+00	1.40E-01	1.49E-05		4.22E-06		7.53E-05			
STYRENE	C				1.90E-03	1.00E+00	3.70E-02	2.84E-05		2.12E-06		1.43E-04			
TOLUENE	D				7.84E-03	1.00E+00	3.10E-02	1.17E-04		7.33E-06		5.91E-04			
TRICHLOROETHYLENE (TCE)	B2	1.10E-02	1.10E-02	6.00E-03	8.85E-04	1.00E+00	1.20E-02	1.32E-05	1.5E-07	3.20E-07	3.5E-09	6.67E-05	4.0E-07	5.5E-07	6
VINYL ACETATE	--				1.80E-03	1.00E+00	1.88E-03	2.69E-05		1.02E-07		1.36E-04			
XYLENES, m & p	D				6.20E-02	1.00E+00	5.30E-03	9.26E-04		9.92E-06		4.67E-03			
XYLENES, TOTAL	D				9.33E-02	1.00E+00	5.30E-03	1.39E-03		1.49E-05		7.03E-03			
Total Risk									**2.4E-06**		7.1E-08		**6.3E-06**		100
												Total Risk =	**8.7E-06**		

Note:
Cancer WOE Classifications:
Group A: Human carcinogen
Group B (B1, B2): Probable human carcinogen
Group C: Possible human carcinogen
Group D: Not classifiable
Group E: No evidence of carcinogenicity
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
ELCR = Excess Lifetime Cancer Risk
EPC = Exposure Point Concentration
mg/kg-day = milligrams per kilogram per day
SF_d = Dermal Slope Factor
SF_o = Oral Slope Factor
SF_i = Inhalation Slope Factor
WOE = Weight of Evidence

Table C-94
Hypothetical Future Residential Scenario - Potential Noncarcinogenic Risk
Building 35-752 Groundwater - Well 2982
Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation		Total HQ	%
Chemical	WOE	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC	ABS_{gi}	Kp	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ		Contribution
2-METHYLNAPHTHALENE	--	9.00E-03	9.00E-03		2.95E-03	1.00E+00	1.42E-02	1.03E-04	0.011	2.95E-06	3.28E-04	5.19E-04		0.012	0
DI-n-BUTYL PHTHALATE	D	1.00E-01	1.00E-01		1.20E-03	1.00E+00	2.40E-02	4.18E-05	4.18E-04	2.03E-06	2.03E-05	2.11E-04		4.38E-04	0
FLUORENE	D	4.00E-02	4.00E-02		8.93E-05	1.00E+00	1.70E-01	3.11E-06	7.77E-05	1.07E-06	2.67E-05	1.57E-05		1.04E-04	0
1,1,1-TRICHLOROETHANE	D	2.80E-01	2.80E-01	6.30E-01	8.70E-04	1.00E+00	1.30E-02	3.03E-05	1.08E-04	7.96E-07	2.84E-06	1.53E-04	2.43E-04	3.54E-04	0
1,2,4-TRIMETHYLBENZENE	--	5.00E-02	5.00E-02	1.70E-03	4.80E-02	1.00E+00	1.33E-01	1.67E-03	0.033	4.49E-04	0.0090	8.44E-03	**5.0**	5.0	40
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	--	5.00E-02	5.00E-02	1.70E-03	4.40E-02	1.00E+00	9.44E-02	1.53E-03	0.031	2.92E-04	0.0058	7.74E-03	**4.6**	4.6	36
ACETONE	D	1.00E-01	1.00E-01	1.00E-01	8.03E-03	1.00E+00	5.69E-04	2.80E-04	0.0028	3.21E-07	3.21E-06	1.41E-03	0.014	0.017	0
BENZENE	A	4.00E-03	4.00E-03	8.60E-03	2.70E-03	1.00E+00	1.50E-02	9.41E-05	0.024	2.85E-06	7.13E-04	4.75E-04	0.055	0.079	1
ETHYLBENZENE	D	1.00E-01	1.00E-01	2.90E-01	4.58E-02	1.00E+00	4.90E-02	1.59E-03	0.016	1.58E-04	0.0016	8.04E-03	0.028	0.045	0
ISOPROPYLBENZENE (CUMENE)	D	1.00E-01	1.00E-01	1.10E-01	4.90E-03	1.00E+00	1.40E-01	1.71E-04	0.0017	4.83E-05	4.83E-04	8.61E-04	0.0078	0.010	0
NAPHTHALENE	C	2.00E-02	2.00E-02	8.57E-04	7.25E-03	1.00E+00	4.70E-02	2.53E-04	0.013	2.40E-05	0.0012	1.27E-03	**1.5**	1.5	12
n-BUTYLBENZENE	--	4.00E-02	4.00E-02	4.00E-02	2.28E-03	1.00E+00	1.23E-01	7.94E-05	0.0020	1.97E-05	4.94E-04	4.01E-04	0.010	0.013	0
n-PROPYLBENZENE	--	4.00E-02	4.00E-02	4.00E-02	9.75E-03	1.00E+00	7.08E-02	3.40E-04	0.0085	4.86E-05	0.0012	1.71E-03	0.043	0.053	0
O-XYLENE (1,2-DIMETHYLBENZENE)	D	2.00E-01	2.00E-01	2.90E-02	3.63E-02	1.00E+00	5.30E-03	1.26E-03	0.0063	1.35E-05	6.77E-05	6.38E-03	0.22	0.23	2
P-CYMENE (p-ISOPROPYLTOLUENE)	D	1.00E-01	1.00E-01	1.10E-01	1.00E-03	1.00E+00	1.40E-01	3.48E-05	3.48E-04	9.86E-06	9.86E-05	1.76E-04	0.0016	0.0020	0
STYRENE	C	2.00E-01	2.00E-01	2.90E-01	1.90E-03	1.00E+00	3.70E-02	6.62E-05	3.31E-04	4.95E-06	2.47E-05	3.34E-04	0.0012	0.0015	0
TOLUENE	D	2.00E-01	2.00E-01	1.10E-01	7.84E-03	1.00E+00	3.10E-02	2.73E-04	0.0014	1.71E-05	8.56E-05	1.38E-03	0.013	0.014	0
TRICHLOROETHYLENE (TCE)	B2	6.00E-03	6.00E-03	6.00E-03	8.85E-04	1.00E+00	1.20E-02	3.08E-05	0.0051	7.48E-07	1.25E-04	1.56E-04	0.026	0.031	0
VINYL ACETATE	--	1.00E+00	1.00E+00	5.71E-02	1.80E-03	1.00E+00	1.88E-03	6.27E-05	6.27E-05	2.38E-07	2.38E-07	3.16E-04	0.0055	0.0056	0
XYLENES, m & p	D	2.00E-01	2.00E-01	2.90E-02	6.20E-02	1.00E+00	5.30E-03	2.16E-03	0.011	2.31E-05	1.16E-04	1.09E-02	0.38	0.39	3
XYLENES, TOTAL	D	2.00E-01	2.00E-01	2.90E-02	9.33E-02	1.00E+00	5.30E-03	3.25E-03	0.016	3.48E-05	1.74E-04	1.64E-02	0.57	0.58	5
Hazard Index									**0.2**		0.02		**12**		100
												Total HI =	**13**		

Note:
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
EPC = Exposure Point Concentration
HI = Hazard Index
HQ = Hazard Quotient;
mg/kg-day = milligrams per kilogram per day
RfC = Reference Concentration
RfD_d = Dermal Reference Dose;
RfD_o = Oral Reference Dose
RfD_i = Inhalation Reference Dose

Table C-95
Hypothetical Future Residential Scenario - Potential Excess Lifetime Cancer Risk
Building 35-752 Groundwater - Well 2983
Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation		Total ELCR	%
Chemical	WOE	SF_o $(mg/kg\text{-}day)^{-1}$	SF_d $(mg/kg\text{-}day)^{-1}$	SF_i $(mg/kg\text{-}day)^{-1}$	EPC	ABS_{gi}	Kp	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR		Contribution
bis(2-ETHYLHEXYL) PHTHALATE	--	1.40E-02	1.40E-02		6.80E-03	1.00E+00	2.50E-02	1.02E-04	**1.4E-06**	5.13E-06	7.2E-08	5.12E-04		1.5E-06	80
DI-n-BUTYL PHTHALATE	D				1.50E-03	1.00E+00	2.40E-02	2.24E-05		1.09E-06		1.13E-04			
NAPHTHALENE	C				6.50E-05	1.00E+00	4.70E-02	9.71E-07		9.22E-08		4.90E-06			
TRICHLOROETHYLENE (TCE)	B2	1.10E-02	1.10E-02	6.00E-03	5.90E-04	1.00E+00	1.20E-02	8.81E-06	9.7E-08	2.14E-07	2.4E-09	4.45E-05	2.7E-07	3.7E-07	20
Total Risk									**1.5E-06**		7.4E-08		2.7E-07		100
												Total Risk =	**1.9E-06**		

Note:
Cancer WOE Classifications:
Group A: Human carcinogen
Group B (B1, B2): Probable human carcinogen
Group C: Possible human carcinogen
Group D: Not classifiable
Group E: No evidence of carcinogenicity
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
ELCR = Excess Lifetime Cancer Risk
EPC = Exposure Point Concentration
mg/kg-day = milligrams per kilogram per day
SF_d = Dermal Slope Factor
SF_o = Oral Slope Factor
SF_i = Inhalation Slope Factor
WOE = Weight of Evidence

Table C-96
Hypothetical Future Residential Scenario - Potential Noncarcinogenic Risk
Building 35-752 Groundwater - Well 2983
Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation		Total HQ	%
Chemical	WOE	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC	ABSgi	Kp	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ		Contribution
bis(2-ETHYLHEXYL) PHTHALATE	--	2.00E-02	2.00E-02		6.80E-03	1.00E+00	2.50E-02	2.37E-04	0.012	1.20E-05	5.98E-04	1.20E-03		0.012	26
DI-n-BUTYL PHTHALATE	D	1.00E-01	1.00E-01		1.50E-03	1.00E+00	2.40E-02	5.23E-05	5.23E-04	2.53E-06	2.53E-05	2.64E-04		5.48E-04	1
NAPHTHALENE	C	2.00E-02	2.00E-02	8.57E-04	6.50E-05	1.00E+00	4.70E-02	2.26E-06	1.13E-04	2.15E-07	1.08E-05	1.14E-05	0.013	0.013	28
TRICHLOROETHYLENE (TCE)	B2	6.00E-03	6.00E-03	6.00E-03	5.90E-04	1.00E+00	1.20E-02	2.06E-05	0.0034	4.98E-07	8.31E-05	1.04E-04	0.017	0.021	44
Hazard Index									0.016		7.18E-04		0.031		100
												Total HI =	0.047		

Note:
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
EPC = Exposure Point Concentration
HI = Hazard Index
HQ = Hazard Quotient;
mg/kg-day = milligrams per kilogram per day
RfC = Reference Concentration
RfD_d = Dermal Reference Dose;
RfD_o = Oral Reference Dose
RfD_i = Inhalation Reference Dose

Table C-97
Hypothetical Future Residential Scenario - Potential Excess Lifetime Cancer Risk
Building 35-752 Groundwater - Well 2987
Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation		Total ELCR	%
Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC	ABS_{gi}	Kp	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR		Contribution
PCB-1260 (AROCHLOR 1260)	B2	2	2.00E+00	2.00E+00	6.10E-05	1.00E+00	5.48E+00	9.11E-07	**1.8E-06**	1.01E-05	**2.0E-05**	4.60E-06		2.2E-05	56
2-METHYLNAPHTHALENE	--				5.60E-05	1.00E+00	1.42E-02	8.36E-07		2.40E-08		4.22E-06			
DI-n-BUTYL PHTHALATE	D				2.10E-03	1.00E+00	2.40E-02	3.14E-05		1.52E-06		1.58E-04			
1,1,1-TRICHLOROETHANE	D				7.20E-04	1.00E+00	1.30E-02	1.08E-05		2.82E-07		5.42E-05			
1,1-DICHLOROETHANE	C				2.40E-04	1.00E+00	6.70E-03	3.58E-06		4.85E-08		1.81E-05			
1,2,4-TRIMETHYLBENZENE	--				1.60E-02	1.00E+00	1.33E-01	2.39E-04		6.42E-05		1.21E-03			
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	--				4.80E-03	1.00E+00	9.44E-02	7.17E-05		1.37E-05		3.62E-04			
BENZENE	A	0.055	5.50E-02	2.90E-02	5.10E-03	1.00E+00	1.50E-02	7.62E-05	**4.2E-06**	2.31E-06	1.3E-07	3.84E-04	**1.1E-05**	1.5E-05	39
CHLOROMETHANE	--	0.013	1.30E-02	6.30E-03	3.30E-04	1.00E+00	3.30E-03	4.93E-06	6.4E-08	3.29E-08	4.3E-10	2.49E-05	1.6E-07	2.2E-07	1
cis-1,2-DICHLOROETHYLENE	D				2.40E-04	1.00E+00	1.49E-02	3.58E-06		1.08E-07		1.81E-05			
ETHYLBENZENE	D				2.40E-02	1.00E+00	4.90E-02	3.58E-04		3.55E-05		1.81E-03			
ISOPROPYLBENZENE (CUMENE)	D				1.70E-03	1.00E+00	1.40E-01	2.54E-05		7.18E-06		1.28E-04			
METHYLENE CHLORIDE	B2	0.0075	7.50E-03	1.65E-03	1.90E-03	1.00E+00	3.50E-03	2.84E-05	2.1E-07	2.01E-07	1.5E-09	1.43E-04	2.4E-07	4.5E-07	1
NAPHTHALENE	C				9.90E-04	1.00E+00	4.70E-02	1.48E-05		1.40E-06		7.46E-05			
n-PROPYLBENZENE	--				1.80E-03	1.00E+00	7.08E-02	2.69E-05		3.85E-06		1.36E-04			
O-XYLENE (1,2-DIMETHYLBENZENE)	D				3.90E-02	1.00E+00	5.30E-03	5.82E-04		6.24E-06		2.94E-03			
TETRACHLOROETHYLENE (PCE)	C-B2	0.052	5.20E-02	1.00E-02	4.40E-04	1.00E+00	3.30E-02	6.57E-06	3.4E-07	4.38E-07	2.3E-08	3.32E-05	3.3E-07	7.0E-07	2
TOLUENE	D				5.40E-03	1.00E+00	3.10E-02	8.06E-05		5.05E-06		4.07E-04			
TRICHLOROETHYLENE (TCE)	B2	0.011	1.10E-02	6.00E-03	1.20E-03	1.00E+00	1.20E-02	1.79E-05	2.0E-07	4.35E-07	4.8E-09	9.04E-05	5.4E-07	7.4E-07	2
XYLENES, m & p	D				3.70E-02	1.00E+00	5.30E-03	5.52E-04		5.92E-06		2.79E-03			
Total Risk									**6.8E-06**		**2.0E-05**		**1.2E-05**		100
													Total Risk =	**4.0E-05**	

Note:
Cancer WOE Classifications:
Group A: Human carcinogen
Group B (B1, B2): Probable human carcinogen
Group C: Possible human carcinogen
Group D: Not classifiable
Group E: No evidence of carcinogenicity
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
ELCR = Excess Lifetime Cancer Risk
EPC = Exposure Point Concentration
mg/kg-day = milligrams per kilogram per day
SF_d = Dermal Slope Factor
SF_o = Oral Slope Factor
SF_i = Inhalation Slope Factor
WOE = Weight of Evidence

Table C-98
Hypothetical Future Residential Scenario - Potential Noncarcinogenic Risk
Building 35-752 Groundwater - Well 2987
Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation		Total HQ	%
Chemical	WOE	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC	ABS_{gi}	Kp	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ		Contribution
PCB-1260 (AROCHLOR 1260)	B2				0.000061	1	5.48	2.13E-06		2.35E-05		1.07E-05			
2-METHYLNAPHTHALENE	--	0.009	9.00E-03		0.000056	1	0.0142	1.95E-06	2.17E-04	5.60E-08	6.22E-06	9.84E-06		2.23E-04	0
DI-n-BUTYL PHTHALATE	D	0.1	1.00E-01		0.0021	1	0.024	7.32E-05	7.32E-04	3.55E-06	3.55E-05	3.69E-04		7.67E-04	0
1,1,1-TRICHLOROETHANE	D	0.28	2.80E-01	0.63	0.00072	1	0.013	2.51E-05	8.96E-05	6.59E-07	2.35E-06	1.27E-04	2.01E-04	2.93E-04	0
1,1-DICHLOROETHANE	C	0.1	1.00E-01	0.14285714	0.00024	1	0.0067	8.36E-06	8.36E-05	1.13E-07	1.13E-06	4.22E-05	2.95E-04	3.80E-04	0
1,2,4-TRIMETHYLBENZENE	--	0.05	5.00E-02	0.0017	0.016	1	0.133	5.57E-04	0.011	1.50E-04	0.0030	2.81E-03	1.7	**1.7**	**54**
1,3,5-TRIMETHYLBENZENE (MESITY	--	0.05	5.00E-02	0.0017	0.0048	1	0.0944	1.67E-04	0.0033	3.19E-05	6.38E-04	8.44E-04	0.50	0.50	16
BENZENE	A	0.004	4.00E-03	0.0086	0.0051	1	0.015	1.78E-04	0.044	5.39E-06	0.0013	8.97E-04	0.10	0.15	5
CHLOROMETHANE	--			0.086	0.00033	1	0.0033	1.15E-05		7.67E-08		5.80E-05	6.75E-04	6.75E-04	0
cis-1,2-DICHLOROETHYLENE	D	0.01	1.00E-02	0.01	0.00024	1	0.0149	8.36E-06	8.36E-04	2.52E-07	2.52E-05	4.22E-05	0.0042	0.0051	0
ETHYLBENZENE	D	0.1	1.00E-01	0.29	0.024	1	0.049	8.36E-04	0.0084	8.28E-05	8.28E-04	4.22E-03	0.015	0.024	1
ISOPROPYLBENZENE (CUMENE)	D	0.1	1.00E-01	0.11	0.0017	1	0.14	5.92E-05	5.92E-04	1.68E-05	1.68E-04	2.99E-04	0.0027	0.0035	0
METHYLENE CHLORIDE	B2	0.06	6.00E-02	0.85714286	0.0019	1	0.0035	6.62E-05	0.0011	4.68E-07	7.80E-06	3.34E-04	3.90E-04	0.0015	0
NAPHTHALENE	C	0.02	2.00E-02	0.000857	0.00099	1	0.047	3.45E-05	0.0017	3.28E-06	1.64E-04	1.74E-04	0.20	0.20	7
n-PROPYLBENZENE	--	0.04	4.00E-02	0.04	0.0018	1	0.0708	6.27E-05	0.0016	8.97E-06	2.24E-04	3.16E-04	0.0079	0.0097	0
O-XYLENE (1,2-DIMETHYLBENZENE	D	0.2	2.00E-01	0.029	0.039	1	0.0053	1.36E-03	0.0068	1.46E-05	7.28E-05	6.86E-03	0.24	0.24	8
TETRACHLOROETHYLENE (PCE)	C-B2	0.01	1.00E-02	0.17	0.00044	1	0.033	1.53E-05	0.0015	1.02E-06	1.02E-04	7.74E-05	4.55E-04	0.0021	0
TOLUENE	D	0.2	2.00E-01	0.11	0.0054	1	0.031	1.88E-04	9.41E-04	1.18E-05	5.89E-05	9.49E-04	0.0086	0.0096	0
TRICHLOROETHYLENE (TCE)	B2	0.006	6.00E-03	0.006	0.0012	1	0.012	4.18E-05	0.0070	1.01E-06	1.69E-04	2.11E-04	0.035	0.042	1
XYLENES, m & p	D	0.2	2.00E-01	0.029	0.037	1	0.0053	1.29E-03	0.0064	1.38E-05	6.90E-05	6.50E-03	0.22	0.23	7
Hazard Index									**0.1**		0.007		**3.0**		100
												Total HI =	**3.1**		

Note:
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
EPC = Exposure Point Concentration
HI = Hazard Index
HQ = Hazard Quotient;
mg/kg-day = milligrams per kilogram per day
RfC = Reference Concentration
RfD_d = Dermal Reference Dose;
RfD_o = Oral Reference Dose
RfD_i = Inhalation Reference Dose

Table C-99
Hypothetical Future Residential Scenario - Potential Excess Lifetime Cancer Risk
Building 35-752 Groundwater - Well 3231
Fort Richardson - Operable Unit E

Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC	ABSgi	Kp	Ingestion CDI (mg/kg-day)	Ingestion ELCR	Dermal CDI (mg/kg-day)	Dermal ELCR	Inhalation CDI (mg/kg-day)	Inhalation ELCR	Total ELCR	% Contribution
DI-n-BUTYL PHTHALATE	D				3.30E-03	1.00E+00	2.40E-02	4.93E-05		2.39E-06		2.49E-04			
CHLOROFORM	B2				2.20E-04	1.00E+00	6.80E-03	3.28E-06		4.51E-08		1.66E-05			
CHLOROMETHANE	--	1.30E-02	1.30E-02	6.30E-03	4.00E-03	1.00E+00	3.30E-03	5.97E-05	7.8E-07	3.98E-07	5.2E-09	3.01E-04	**1.9E-06**	2.7E-06	32
METHYLENE CHLORIDE	B2	7.50E-03	7.50E-03	1.65E-03	1.90E-03	1.00E+00	3.50E-03	2.84E-05	2.1E-07	2.01E-07	1.5E-09	1.43E-04	2.4E-07	4.5E-07	5
TOLUENE	D				1.60E-03	1.00E+00	3.10E-02	2.39E-05		1.50E-06		1.21E-04			
TRICHLOROETHYLENE (TCE)	B2	1.10E-02	1.10E-02	6.00E-03	8.60E-03	1.00E+00	1.20E-02	1.28E-04	**1.4E-06**	3.11E-06	3.4E-08	6.48E-04	**3.9E-06**	5.3E-06	63
Total Risk									**2.4E-06**		4.1E-08		**6.0E-06**		100
												Total Risk =	**8.5E-06**		

Note:
Cancer WOE Classifications:
Group A: Human carcinogen
Group B (B1, B2): Probable human carcinogen
Group C: Possible human carcinogen
Group D: Not classifiable
Group E: No evidence of carcinogenicity
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
ELCR = Excess Lifetime Cancer Risk
EPC = Exposure Point Concentration
mg/kg-day = milligrams per kilogram per day
SF_d = Dermal Slope Factor
SF_o = Oral Slope Factor
SF_i = Inhalation Slope Factor
WOE = Weight of Evidence

Table C-100
Hypothetical Future Residential Scenario - Potential Noncarcinogenic Risk
Building 35-752 Groundwater - Well 3231
Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation		Total HQ	%
Chemical	WOE	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC	ABSgi	Kp	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ		Contribution
DI-n-BUTYL PHTHALATE	D	1.00E-01	1.00E-01		3.30E-03	1.00E+00	2.40E-02	1.15E-04	0.0011	5.58E-06	5.58E-05	5.80E-04		0.0012	0
CHLOROFORM	B2	1.00E-02	1.00E-02	8.60E-04	2.20E-04	1.00E+00	6.80E-03	7.66E-06	7.66E-04	1.05E-07	1.05E-05	3.87E-05	0.045	0.046	13
CHLOROMETHANE	--			8.60E-02	4.00E-03	1.00E+00	3.30E-03	1.39E-04		9.29E-07		7.03E-04	0.0082	0.0082	2
METHYLENE CHLORIDE	B2	6.00E-02	6.00E-02	8.57E-01	1.90E-03	1.00E+00	3.50E-03	6.62E-05	0.0011	4.68E-07	7.80E-06	3.34E-04	3.90E-04	0.0015	0
TOLUENE	D	2.00E-01	2.00E-01	1.10E-01	1.60E-03	1.00E+00	3.10E-02	5.57E-05	2.79E-04	3.49E-06	1.75E-05	2.81E-04	0.0026	0.0029	1
TRICHLOROETHYLENE (TCE)	B2	6.00E-03	6.00E-03	6.00E-03	8.60E-03	1.00E+00	1.20E-02	3.00E-04	0.050	7.27E-06	0.0012	1.51E-03	0.25	0.30	84
Hazard Index									0.05		0.001		0.31		100
												Total HI =	0.36		

Note:
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
EPC = Exposure Point Concentration
HI = Hazard Index
HQ = Hazard Quotient;
mg/kg-day = milligrams per kilogram per day
RfC = Reference Concentration
RfD_d = Dermal Reference Dose;
RfD_o = Oral Reference Dose
RfD_i = Inhalation Reference Dose

Table C-101
Hypothetical Future Residential Scenario - Potential Excess Lifetime Cancer Risk
Building 35-752 Groundwater - Well 3232
Fort Richardson - Operable Unit E

		SF_o	SF_d	SF_i				Ingestion		Dermal		Inhalation		Total ELCR	%
Chemical	WOE	(mg/kg-day)$^{-1}$	(mg/kg-day)$^{-1}$	(mg/kg-day)$^{-1}$	EPC	ABS_{gi}	Kp	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR		Contribution
DI-n-BUTYL PHTHALATE	D				4.00E-03	1.00E+00	2.40E-02	5.97E-05		2.90E-06		3.01E-04			
BENZENE	A	5.50E-02	5.50E-02	2.90E-02	1.00E-04	1.00E+00	1.50E-02	1.49E-06	8.2E-08	4.53E-08	2.5E-09	7.53E-06	2.2E-07	3.0E-07	50
CHLOROFORM	B2				2.00E-04	1.00E+00	6.80E-03	2.99E-06		4.10E-08		1.51E-05			
CHLOROMETHANE	--	1.30E-02	1.30E-02	6.30E-03	1.20E-04	1.00E+00	3.30E-03	1.79E-06	2.3E-08	1.19E-08	1.6E-10	9.04E-06	5.7E-08	8.0E-08	13
TOLUENE	D				4.30E-03	1.00E+00	3.10E-02	6.42E-05		4.02E-06		3.24E-04			
TRICHLOROETHYLENE (TCE)	B2	1.10E-02	1.10E-02	6.00E-03	3.60E-04	1.00E+00	1.20E-02	5.38E-06	5.9E-08	1.30E-07	1.4E-09	2.71E-05	1.6E-07	2.2E-07	37
Total Risk									1.6E-07		4.1E-09		4.4E-07		100
													Total Risk =	6.1E-07	

Note:
Cancer WOE Classifications:
Group A: Human carcinogen
Group B (B1, B2): Probable human carcinogen
Group C: Possible human carcinogen
Group D: Not classifiable
Group E: No evidence of carcinogenicity
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
ELCR = Excess Lifetime Cancer Risk
EPC = Exposure Point Concentration
mg/kg-day = milligrams per kilogram per day
SF_d = Dermal Slope Factor
SF_o = Oral Slope Factor
SF_i = Inhalation Slope Factor
WOE = Weight of Evidence

Table C-102
Hypothetical Future Residential Scenario - Potential Noncarcinogenic Risk
Building 35-752 Groundwater - Well 3232
Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation		Total HQ	%
Chemical	WOE	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC	ABSgi	Kp	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ		Contribution
DI-n-BUTYL PHTHALATE	D	1.00E-01	1.00E-01		4.00E-03	1.00E+00	2.40E-02	1.39E-04	0.0014	6.76E-06	6.76E-05	7.03E-04		0.0015	2
BENZENE	A	4.00E-03	4.00E-03	8.60E-03	1.00E-04	1.00E+00	1.50E-02	3.48E-06	8.71E-04	1.06E-07	2.64E-05	1.76E-05	0.0020	0.0029	4
CHLOROFORM	B2	1.00E-02	1.00E-02	8.60E-04	2.00E-04	1.00E+00	6.80E-03	6.97E-06	6.97E-04	9.58E-08	9.58E-06	3.52E-05	0.041	0.042	62
CHLOROMETHANE	--			8.60E-02	1.20E-04	1.00E+00	3.30E-03	4.18E-06		2.79E-08		2.11E-05	2.45E-04	2.45E-04	0
TOLUENE	D	2.00E-01	2.00E-01	1.10E-01	4.30E-03	1.00E+00	3.10E-02	1.50E-04	7.49E-04	9.39E-06	4.69E-05	7.56E-04	0.0069	0.0077	12
TRICHLOROETHYLENE (TCE)	B2	6.00E-03	6.00E-03	6.00E-03	3.60E-04	1.00E+00	1.20E-02	1.25E-05	0.0021	3.04E-07	5.07E-05	6.33E-05	0.011	0.013	19
Hazard Index									0.01		0.0002		0.061		100
												Total HI =	0.07		

Note:
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
EPC = Exposure Point Concentration
HI = Hazard Index
HQ = Hazard Quotient;
mg/kg-day = milligrams per kilogram per day
RfC = Reference Concentration
RfD_d = Dermal Reference Dose;
RfD_o = Oral Reference Dose
RfD_i = Inhalation Reference Dose

Table C-103
Hypothetical Future Residential Scenario - Potential Excess Lifetime Cancer Risk
Building 35-752 Groundwater - Well 3458
Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation		Total ELCR	%
Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC	ABS_{gi}	Kp	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR		Contribution
ACENAPHTHENE	D				0.0002735	1.00E+00	1.33E-01	4.08E-06		1.10E-06		2.06E-05			
ACENAPHTHYLENE	--				0.000081	1.00E+00	1.41E-01	1.21E-06		3.45E-07		6.10E-06			
DI-n-BUTYL PHTHALATE	D				0.0034	1.00E+00	1.70E-01	5.08E-05		1.74E-05		2.56E-04			
FLUORENE	D				0.00078	1.00E+00	1.40E-01	1.16E-05		3.30E-06		5.88E-05			
PHENANTHRENE	A	5.50E-02	5.50E-02	2.90E-02	0.00013	1.00E+00	1.50E-02	1.94E-06	1.1E-07	5.88E-08	3.2E-09	9.79E-06	2.8E-07	3.9E-07	1
BENZENE	--	2.90E-03	2.90E-03	2.90E-03	0.0002	1.00E+00	6.10E-03	2.99E-06	8.7E-09	3.68E-08	1.1E-10	1.51E-05		8.8E-09	0
CHLOROETHANE	D				0.0002	1.00E+00	1.49E-02	2.99E-06		8.99E-08		1.51E-05			
CHLOROMETHANE	D				0.00046	1.00E+00	4.90E-02	6.87E-06		6.80E-07		3.47E-05			
cis-1,2-DICHLOROETHYLENE	D				0.0132	1.00E+00	1.40E-01	1.97E-04		5.58E-05		9.95E-04			
ETHYLBENZENE	--				0.00012	1.00E+00	1.12E-01	1.79E-06		4.06E-07		9.04E-06			
ISOPROPYLBENZENE (CUMENE)	B2	1.10E-02	1.10E-02	6.00E-03	0.00087	1.00E+00	1.20E-02	1.30E-05	1.4E-07	3.15E-07	3.5E-09	6.55E-05		1.5E-07	0
METHYLENE CHLORIDE	--	1.50E+00	1.50E+00	3.10E-02	0.0017	1.00E+00	5.60E-03	2.54E-05	**3.8E-05**	2.87E-07	4.3E-07	1.28E-04		**3.9E-05**	74
NAPHTHALENE	C				0.00011	1.00E+00	4.70E-02	1.64E-06		1.56E-07		8.29E-06			
SEC-BUTYLBENZENE	--				0.001725	1.00E+00	1.12E-01	2.58E-05		5.83E-06		1.30E-04			
TOLUENE	D				0.0018	1.00E+00	3.10E-02	2.69E-05		1.68E-06		1.36E-04			
trans-1,2-DICHLOROETHENE	--				0.00013	1.00E+00	7.70E-03	1.94E-06		3.02E-08		9.79E-06			
TRICHLOROETHYLENE (TCE)	B2	1.10E-02	1.10E-02	6.00E-03	0.0028	1.00E+00	1.20E-02	4.18E-05	4.6E-07	1.01E-06	1.1E-08	2.11E-04	**1.3E-06**	**1.7E-06**	3
VINYL CHLORIDE	--	1.50E+00	1.50E+00	3.10E-02	0.000445	1.00E+00	5.60E-03	6.64E-06	**1.0E-05**	7.52E-08	1.1E-07	3.35E-05	**1.0E-06**	**1.1E-05**	21
Total Risk									**4.9E-05**		5.6E-07		**2.6E-06**		100
													Total Risk =	**5.2E-05**	

Note:
Cancer WOE Classifications:
Group A: Human carcinogen
Group B (B1, B2): Probable human carcinogen
Group C: Possible human carcinogen
Group D: Not classifiable
Group E: No evidence of carcinogenicity
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
ELCR = Excess Lifetime Cancer Risk
EPC = Exposure Point Concentration
mg/kg-day = milligrams per kilogram per day
SF_d = Dermal Slope Factor
SF_o = Oral Slope Factor
SF_i = Inhalation Slope Factor
WOE = Weight of Evidence

Table C-104
Hypothetical Future Residential Scenario - Potential Noncarcinogenic Risk
Building 35-752 Groundwater - Well 3458
Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation		Total HQ	%
Chemical	WOE	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC	ABSgi	Kp	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ		Contribution
ACENAPHTHENE	D	6.00E-02	6.00E-02		0.0002735	1.00E+00	1.33E-01	9.53E-06	0.000	2.56E-06	4.27E-05	4.81E-05		0.000	0
ACENAPHTHYLENE	--	6.00E-02	6.00E-02		0.000081	1.00E+00	1.41E-01	2.82E-06	0.000	8.04E-07	1.34E-05	1.42E-05		0.000	0
DI-n-BUTYL PHTHALATE	D	4.00E-02	4.00E-02		0.0034	1.00E+00	1.70E-01	1.18E-04	0.003	4.07E-05	1.02E-03	5.98E-04		0.004	2
FLUORENE	D	3.00E-01	3.00E-01		0.00078	1.00E+00	1.40E-01	2.72E-05	0.000	7.69E-06	2.56E-05	1.37E-04		0.000	0
PHENANTHRENE	A	4.00E-03	4.00E-03	8.60E-03	0.00013	1.00E+00	1.50E-02	4.53E-06	0.001	1.37E-07	3.43E-05	2.29E-05	3E-03	0.004	2
BENZENE	--	4.00E-01	4.00E-01	2.86E+00	0.0002	1.00E+00	6.10E-03	6.97E-06	0.000	8.59E-08	2.15E-07	3.52E-05	1E-05	0.000	0
CHLOROETHANE	D	1.00E-02	1.00E-02	1.00E-02	0.0002	1.00E+00	1.49E-02	6.97E-06	0.001	2.10E-07	2.10E-05	3.52E-05		0.001	0
CHLOROMETHANE	D	1.00E-01	1.00E-01	2.90E-01	0.00046	1.00E+00	4.90E-02	1.60E-05	0.000	1.59E-06	1.59E-05	8.09E-05		0.000	0
cis-1,2-DICHLOROETHYLENE	D	1.00E-01	1.00E-01	1.10E-01	0.0132	1.00E+00	1.40E-01	4.60E-04	0.005	1.30E-04	1.30E-03	2.32E-03		0.006	3
ETHYLBENZENE	--	4.00E-02	4.00E-02	4.00E-02	0.00012	1.00E+00	1.12E-01	4.18E-06	0.000	9.46E-07	2.37E-05	2.11E-05		0.000	0
ISOPROPYLBENZENE (CUMENE)	B2	6.00E-03	6.00E-03	6.00E-03	0.00087	1.00E+00	1.20E-02	3.03E-05	0.005	7.35E-07	1.23E-04	1.53E-04		0.005	3
METHYLENE CHLORIDE	--	3.00E-03	3.00E-03	2.86E-02	0.0017	1.00E+00	5.60E-03	5.92E-05	0.020	6.70E-07	2.23E-04	2.99E-04		0.020	11
NAPHTHALENE	C	2.00E-02	2.00E-02	8.57E-04	0.00011	1.00E+00	4.70E-02	3.83E-06	0.000	3.64E-07	1.82E-05	1.93E-05	2E-02	0.023	12
SEC-BUTYLBENZENE	--	4.00E-02	4.00E-02	4.00E-02	0.001725	1.00E+00	1.12E-01	6.01E-05	0.002	1.36E-05	3.40E-04	3.03E-04	8E-03	0.009	5
TOLUENE	D	2.00E-01	2.00E-01	1.10E-01	0.0018	1.00E+00	3.10E-02	6.27E-05	0.000	3.93E-06	1.96E-05	3.16E-04	3E-03	0.003	2
trans-1,2-DICHLOROETHENE	--	2.00E-02	2.00E-02	2.00E-02	0.00013	1.00E+00	7.70E-03	4.53E-06	0.000	7.05E-08	3.52E-06	2.29E-05	1E-03	0.001	1
TRICHLOROETHYLENE (TCE)	B2	6.00E-03	6.00E-03	6.00E-03	0.0028	1.00E+00	1.20E-02	9.76E-05	0.016	2.37E-06	3.94E-04	4.92E-04	8E-02	0.099	54
VINYL CHLORIDE	--	3.00E-03	3.00E-03	2.86E-02	0.000445	1.00E+00	5.60E-03	1.55E-05	0.005	1.75E-07	5.85E-05	7.82E-05	3E-03	0.008	4
Hazard Index									0.1		0.004		0.12		100
												Total HI =	0.2		

Note:
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
EPC = Exposure Point Concentration
HI = Hazard Index
HQ = Hazard Quotient;
mg/kg-day = milligrams per kilogram per day
RfC = Reference Concentration
RfD_d = Dermal Reference Dose;
RfD_o = Oral Reference Dose
RfD_i = Inhalation Reference Dose

Table C-105
Hypothetical Future Residential Scenario - Potential Excess Lifetime Cancer Risk
Building 35-752 Groundwater - Well 3503
Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation		Total ELCR	%
Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC	ABS_{gi}	Kp	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR		Contribution
2-METHYLNAPHTHALENE	--				6.70E-05	1.00E+00	1.42E-02	1.00E-06		2.87E-08		5.05E-06			
1,1,1-TRICHLOROETHANE	D				6.80E-04	1.00E+00	1.30E-02	1.02E-05		2.67E-07		5.12E-05			
TETRACHLOROETHYLENE (PCE)	C-B2	5.20E-02	5.20E-02	1.00E-02	6.40E-04	1.00E+00	3.30E-02	9.56E-06	5.0E-07	6.37E-07	3.3E-08	4.82E-05	4.8E-07	**1.0E-06**	66
TRICHLOROETHYLENE (TCE)	B2	1.10E-02	1.10E-02	6.00E-03	8.40E-04	1.00E+00	1.20E-02	1.25E-05	1.4E-07	3.04E-07	3.3E-09	6.33E-05	3.8E-07	5.2E-07	34
Total Risk									6.3E-07		3.6E-08		8.6E-07		100
												Total Risk =	**1.5E-06**		

Note:
Cancer WOE Classifications:
Group A: Human carcinogen
Group B (B1, B2): Probable human carcinogen
Group C: Possible human carcinogen
Group D: Not classifiable
Group E: No evidence of carcinogenicity
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
ELCR = Excess Lifetime Cancer Risk
EPC = Exposure Point Concentration
mg/kg-day = milligrams per kilogram per day
SF_d = Dermal Slope Factor
SF_o = Oral Slope Factor
SF_i = Inhalation Slope Factor
WOE = Weight of Evidence

Table C-106
Hypothetical Future Residential Scenario - Potential Noncarcinogenic Risk
Building 35-752 Groundwater - Well 3503
Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation		Total HQ	%
Chemical	WOE	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC	ABS_{GI}	Kp	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ		Contribution
2-METHYLNAPHTHALENE	--	9.00E-03	9.00E-03		6.70E-05	1.00E+00	1.42E-02	2.33E-06	2.59E-04	6.70E-08	7.44E-06	1.18E-05		2.67E-04	1
1,1,1-TRICHLOROETHANE	D	2.80E-01	2.80E-01	6.30E-01	6.80E-04	1.00E+00	1.30E-02	2.37E-05	8.46E-05	6.22E-07	2.22E-06	1.20E-04	1.90E-04	2.77E-04	1
TETRACHLOROETHYLENE (PCE)	C-B2	1.00E-02	1.00E-02	1.70E-01	6.40E-04	1.00E+00	3.30E-02	2.23E-05	0.0022	1.49E-06	1.49E-04	1.13E-04	6.62E-04	0.0030	9
TRICHLOROETHYLENE (TCE)	B2	6.00E-03	6.00E-03	6.00E-03	8.40E-04	1.00E+00	1.20E-02	2.93E-05	0.0049	7.10E-07	1.18E-04	1.48E-04	0.025	0.030	89
Hazard Index									0.007		0.0003		0.025		100
												Total HI =	0.033		

Note:
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
EPC = Exposure Point Concentration
HI = Hazard Index
HQ = Hazard Quotient;
mg/kg-day = milligrams per kilogram per day
RfC = Reference Concentration
RfD_d = Dermal Reference Dose;
RfD_o = Oral Reference Dose
RfD_i = Inhalation Reference Dose

Table C-107
Intermittent Site Specific Worker Scenario - Potential Excess Lifetime Cancer Risk
AVMA Surface Soil
Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation			
Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC (mg/kg)	ABS_d	ABS_{gi}	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	Total ELCR	% Contribution
ALUMINUM					2.43E+04		1.00E+00	6.11E-04				9.40E-08			
BARIUM	D				1.10E+02		7.00E-02	2.78E-06				4.27E-10			
BERYLLIUM	B1			8.40E+00	5.40E-01		7.00E-03	1.36E-08				2.09E-12	1.8E-11	1.8E-11	0
COBALT				9.80E+00	2.44E+01	0	1.00E+00	6.14E-07				9.44E-11	9.3E-10	9.3E-10	0
IRON					4.13E+04	0	1.00E+00	1.04E-03				1.60E-07			
LEAD					3.60E+01	0	1.00E+00	9.06E-07				1.39E-10			
MANGANESE	D				1.67E+03	0	4.00E-02	4.20E-05				6.46E-09			
NICKEL	D				1.95E+02	0	4.00E-02	4.91E-06				7.55E-10			
SELENIUM	D				8.36E+00		1.00E+00	2.10E-07				3.24E-11			
VANADIUM					7.91E+01	0	2.60E-02	1.99E-06				3.06E-10			
ALPHA BHC	B2	6.30E+00	6.30E+00	6.30E+00	8.60E-04	4.00E-02	1.00E+00	2.16E-11	1.4E-10	5.71E-12	3.6E-11	3.33E-15	2.1E-14	1.7E-10	0
ALPHA CHLORDANE	B2	3.50E-01	3.50E-01	3.50E-01	1.10E-03	4.00E-02	1.00E+00	2.77E-11	9.7E-12	7.31E-12	2.6E-12	4.26E-15	1.5E-15	1.2E-11	0
BETA BHC	C	1.80E+00	1.80E+00	1.80E+00	9.60E-04	4.00E-02	1.00E+00	2.42E-11	4.3E-11	6.38E-12	1.1E-11	3.72E-15	6.7E-15	5.5E-11	0
DELTA BHC		6.30E+00	6.30E+00	6.30E+00	8.60E-04	4.00E-02	1.00E+00	2.16E-11	1.4E-10	5.71E-12	3.6E-11	3.33E-15	2.1E-14	1.7E-10	0
DIELDRIN	B2	1.60E+01	1.60E+01	1.61E+01	3.60E-04	1.00E-01	1.00E+00	9.06E-12	1.4E-10	5.98E-12	9.6E-11	1.39E-15	2.2E-14	2.4E-10	0
ENDOSULFAN SULFATE					3.23E-04	1.00E-01	1.00E+00	8.12E-12		5.36E-12		1.25E-15			
ENDRIN	D				2.20E-03	1.00E-01	1.00E+00	5.54E-11		3.65E-11		8.52E-15			
ENDRIN ALDEHYDE	D				2.83E-03	1.00E-01	1.00E+00	7.12E-11		4.70E-11		1.10E-14			
ENDRIN KETONE					3.20E-04	1.00E-01	1.00E+00	8.05E-12		5.31E-12		1.24E-15			
HEPTACHLOR	B2	4.50E+00	4.50E+00	4.55E+00	1.50E-03	1.00E-01	1.00E+00	3.78E-11	1.7E-10	2.50E-11	1.1E-10	5.82E-15	2.6E-14	2.8E-10	0
HEPTACHLOR EPOXIDE	B2	9.10E+00	9.10E+00	9.10E+00	2.50E-03	1.00E-01	1.00E+00	6.29E-11	5.7E-10	4.15E-11	3.8E-10	9.68E-15	8.8E-14	9.5E-10	0
METHOXYCHLOR	D				2.50E-03	1.00E-01	1.00E+00	6.29E-11		4.15E-11		9.68E-15			
p,p'-DDD	B2	2.40E-01	2.40E-01		3.80E-02	3.00E-02	1.00E+00	9.56E-10	2.3E-10	1.89E-10	4.5E-11	1.47E-13		2.7E-10	0
p,p'-DDE	B2	3.40E-01	3.40E-01		3.90E-02	3.00E-02	1.00E+00	9.81E-10	3.3E-10	1.94E-10	6.6E-11	1.51E-13		4.0E-10	0
p,p'-DDT	B2	3.40E-01	3.40E-01	3.40E-01	2.40E-01	3.00E-02	1.00E+00	6.04E-09	2.1E-09	1.20E-09	4.1E-10	9.29E-13	3.2E-13	2.5E-09	0
2-METHYLNAPHTHALENE					7.70E-01	1.30E-01	1.00E+00	1.94E-08		1.66E-08		2.98E-12			
ACENAPHTHENE	D				1.20E+00	1.30E-01	1.00E+00	3.02E-08		2.59E-08		4.65E-12			
ANTHRACENE	D				1.10E+00	1.30E-01	1.00E+00	2.77E-08		2.37E-08		4.26E-12			
BENZO(a)ANTHRACENE	B2	7.30E-01	7.30E-01		1.20E+00	1.30E-01	1.00E+00	3.02E-08	2.2E-08	2.59E-08	1.9E-08	4.65E-12		4.1E-08	8
BENZO(a)PYRENE	B2	7.30E+00	7.30E+00		1.10E+00	1.30E-01	1.00E+00	2.77E-08	2.0E-07	2.37E-08	1.7E-07	4.26E-12		3.8E-07	69
BENZO(b)FLUORANTHENE	B2	7.30E-01	7.30E-01		1.10E+00	1.30E-01	1.00E+00	2.77E-08	2.0E-08	2.37E-08	1.7E-08	4.26E-12		3.8E-08	7
BENZO(g,h,i)PERYLENE				1.60E+01	4.70E-01	1.30E-01	1.00E+00	1.18E-08		1.01E-08		1.82E-12	2.9E-11	2.9E-11	0
BENZO(k)FLUORANTHENE	B2	7.30E-02	7.30E-02		4.50E-01	1.30E-01	1.00E+00	1.13E-08	8.3E-10	9.71E-09	7.1E-10	1.74E-12		1.5E-09	0
bis(2-ETHYLHEXYL) PHTHALATE		1.40E-02	1.40E-02		6.73E-02	1.00E-01	1.00E+00	1.69E-09	2.4E-11	1.12E-09	1.6E-11	2.61E-13		3.9E-11	0
CHRYSENE	B2	7.30E-03	7.30E-03		1.30E+00	1.30E-01	1.00E+00	3.27E-08	2.4E-10	2.81E-08	2.0E-10	5.03E-12		4.4E-10	0
DIBENZ(a,h)ANTHRACENE	B2	7.30E+00	7.30E+00		1.80E-01	1.30E-01	1.00E+00	4.53E-09	3.3E-08	3.89E-09	2.8E-08	6.97E-13		6.1E-08	11
DIBENZOFURAN	D				7.70E-01		1.00E+00	1.94E-08				2.98E-12			
DI-n-BUTYL PHTHALATE	D				3.84E-01	1.00E-01	1.00E+00	9.67E-09		6.38E-09		1.49E-12			
DI-n-OCTYLPHTHALATE	D				1.00E-01	1.00E-01	1.00E+00	2.52E-09		1.66E-09		3.87E-13			
FLUORANTHENE	D				2.10E+00	1.30E-01	1.00E+00	5.28E-08		4.53E-08		8.13E-12			
FLUORENE	D				1.10E+00	1.30E-01	1.00E+00	2.77E-08		2.37E-08		4.26E-12			
INDENO(1,2,3-c,d)PYRENE	B2	7.30E-01	7.30E-01		5.30E-01	1.30E-01	1.00E+00	1.33E-08	9.7E-09	1.14E-08	8.4E-09	2.05E-12		1.8E-08	3
PHENANTHRENE	D				4.20E+00	1.30E-01	1.00E+00	1.06E-07		9.07E-08		1.63E-11			
PYRENE	D				3.10E+00	1.30E-01	1.00E+00	7.80E-08		6.69E-08		1.20E-11			
DIESEL RANGE ORGANICS					3.70E+02	0	--	9.31E-06				1.43E-09			
GASOLINE RANGE ORGANICS					1.08E+00	0	--	2.73E-08				4.20E-12			
1,2,4-TRIMETHYLBENZENE					8.50E-02		1.00E+00	2.14E-09				2.17E-08			
1,3,5-TRIMETHYLBENZENE (MESITYLENI					1.30E-02		1.00E+00	3.27E-10				8.14E-09			
ACETONE	D				2.60E-01		1.00E+00	6.54E-09				1.04E-07			
ETHYLBENZENE	D				3.80E-02		1.00E+00	9.56E-10				3.54E-08			
HEXACHLOROBUTADIENE	C	7.80E-02	7.80E-02	7.80E-02	2.40E-02	1.00E-01	1.00E+00	6.04E-10	4.7E-11	3.99E-10	3.1E-11	9.29E-14	7.2E-15	7.8E-11	0
ISOPROPYLBENZENE (CUMENE)	D				1.20E-02		1.00E+00	3.02E-10				1.68E-08			
METHYL ETHYL KETONE (2-BUTANONE)	D				7.78E-02		1.00E+00	1.96E-09				2.02E-08			
METHYLENE CHLORIDE	B2	7.50E-03	7.50E-03	1.65E-03	1.23E-01		1.00E+00	3.10E-09	2.3E-11			2.48E-07	4.1E-10	4.3E-10	0
NAPHTHALENE	C				3.60E-01	1.30E-01	1.00E+00	9.06E-09		7.77E-09		4.19E-08			
O-XYLENE (1,2-DIMETHYLBENZENE)	D				9.70E-02	1.00E-01	1.00E+00	2.44E-09		1.61E-09		8.00E-08			
P-CYMENE (p-ISOPROPYLTOLUENE)	D				3.60E-02		1.00E+00	9.06E-10				5.05E-08			

AVMA Surface Soil

Fort Richardson - Operable Unit E

Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC (mg/kg)	ABS_d	ABS_{gi}	Ingestion CDI (mg/kg-day)	Ingestion ELCR	Dermal CDI (mg/kg-day)	Dermal ELCR	Inhalation CDI (mg/kg-day)	Inhalation ELCR	Total ELCR	% Contribution
TOLUENE	D				6.20E-02		1.00E+00	1.56E-09				7.84E-08			
XYLENES, m & p	D				1.40E-01	1.00E-01	1.00E+00	3.52E-09		2.32E-09		1.15E-07			
Total Risk									2.9E-07		2.5E-07		1.4E-09		100
												Total Risk =	5.4E-07		

Note:
Cancer WOE Classifications:
Group A: Human carcinogen
Group B (B1, B2): Probable human carcinogen
Group C: Possible human carcinogen
Group D: Not classifiable
Group E: No evidence of carcinogenicity
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
ELCR = Excess Lifetime Cancer Risk
EPC = Exposure Point Concentration
mg/kg-day = milligrams per kilogram per day
SF_d = Dermal Slope Factor
SF_o = Oral Slope Factor
SF_i = Inhalation Slope Factor
WOE = Weight of Evidence

Table C-108
Current Site Specific Worker Scenario - Potential Noncarcinogenic Risk
AVMA Surface Soil
Fort Richardson- Operable Unit E

Chemical	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC (mg/kg)	ABS_d	ABS_{gi}	Ingestion CDI (mg/kg-day)	Ingestion HQ	Dermal CDI (mg/kg-day)	Dermal HQ	Inhalation CDI (mg/kg-day)	Inhalation HQ	Total HI	% Contribution
ALUMINUM	1.00E+00	1.00E+00	1.40E-03	2.43E+04		1.00E+00	1.43E-02	0.01			2.19E-06	0.00	0.02	9
BARIUM	7.00E-02	4.90E-03	1.43E-04	1.10E+02		7.00E-02	6.48E-05	0.00			9.97E-09	0.00	0.00	1
BERYLLIUM	2.00E-03	1.40E-05	5.71E-06	5.40E-01		7.00E-03	3.17E-07	0.00			4.88E-11	0.00	0.00	0
COBALT	2.00E-02	2.00E-02	5.70E-06	2.44E+01	0	1.00E+00	1.43E-05	0.00			2.20E-09	0.00	0.00	1
IRON	3.00E-01	3.00E-01		4.13E+04	0	1.00E+00	2.43E-02	0.08			3.73E-06		0.08	48
LEAD				3.60E+01	0	1.00E+00	2.11E-05				3.25E-09			
MANGANESE	2.40E-02	9.60E-04	1.40E-05	1.67E+03	0	4.00E-02	9.80E-04	0.04			1.51E-07	0.01	0.05	31
NICKEL	2.00E-02	8.00E-04		1.95E+02	0	4.00E-02	1.14E-04	0.01			1.76E-08		0.01	3
SELENIUM	5.00E-03	5.00E-03		8.36E+00		1.00E+00	4.91E-06	0.00			7.55E-10		0.00	1
VANADIUM	7.00E-03	1.82E-04		7.91E+01	0	2.60E-02	4.65E-05	0.01			7.15E-09		0.01	4
ALPHA BHC	5.00E-04	5.00E-04		8.60E-04	4.00E-02	1.00E+00	5.05E-10	0.00	1.33E-10	0.0000	7.77E-14		0.00	0
ALPHA CHLORDANE	5.00E-04	5.00E-04	2.00E-04	1.10E-03	4.00E-02	1.00E+00	6.46E-10	0.00	1.70E-10	0.0000	9.94E-14	0.00	0.00	0
BETA BHC	2.00E-04	2.00E-04		9.60E-04	4.00E-02	1.00E+00	5.64E-10	0.00	1.49E-10	0.0000	8.67E-14		0.00	0
DELTA BHC	5.00E-04	5.00E-04		8.60E-04	4.00E-02	1.00E+00	5.05E-10	0.00	1.33E-10	0.0000	7.77E-14		0.00	0
DIELDRIN	5.00E-05	5.00E-05		3.60E-04	1.00E-01	1.00E+00	2.11E-10	0.00	1.39E-10	0.0000	3.25E-14		0.00	0
ENDOSULFAN SULFATE	6.00E-03	6.00E-03		3.23E-04	1.00E-01	1.00E+00	1.90E-10	0.00	1.25E-10	0.0000	2.92E-14		0.00	0
ENDRIN	3.00E-04	3.00E-04		2.20E-03	1.00E-01	1.00E+00	1.29E-09	0.00	8.52E-10	0.0000	1.99E-13		0.00	0
ENDRIN ALDEHYDE	3.00E-04	3.00E-04		2.83E-03	1.00E-01	1.00E+00	1.66E-09	0.00	1.10E-09	0.0000	2.56E-13		0.00	0
ENDRIN KETONE	3.00E-04	3.00E-04		3.20E-04	1.00E-01	1.00E+00	1.88E-10	0.00	1.24E-10	0.0000	2.89E-14		0.00	0
HEPTACHLOR	5.00E-04	5.00E-04		1.50E-03	1.00E-01	1.00E+00	8.82E-10	0.00	5.82E-10	0.0000	1.36E-13		0.00	0
HEPTACHLOR EPOXIDE	1.30E-05	1.30E-05		2.50E-03	1.00E-01	1.00E+00	1.47E-09	0.00	9.69E-10	0.0001	2.26E-13		0.00	0
METHOXYCHLOR	5.00E-03	5.00E-03		2.50E-03	1.00E-01	1.00E+00	1.47E-09	0.00	9.69E-10	0.0000	2.26E-13		0.00	0
p,p'-DDD				3.80E-02	3.00E-02	1.00E+00	2.23E-08		4.42E-09		3.43E-12			
p,p'-DDE				3.90E-02	3.00E-02	1.00E+00	2.29E-08		4.53E-09		3.52E-12			
p,p'-DDT	5.00E-04	5.00E-04		2.40E-01	3.00E-02	1.00E+00	1.41E-07	0.00	2.79E-08	0.0001	2.17E-11		0.00	0
2-METHYLNAPHTHALENE	9.00E-03	9.00E-03		7.70E-01	1.30E-01	1.00E+00	4.52E-07	0.00	3.88E-07	0.0000	6.95E-11		0.00	0
ACENAPHTHENE	6.00E-02	6.00E-02		1.20E+00	1.30E-01	1.00E+00	7.05E-07	0.00	6.04E-07	0.0000	1.08E-10		0.00	0
ANTHRACENE	3.00E-01	3.00E-01		1.10E+00	1.30E-01	1.00E+00	6.46E-07	0.00	5.54E-07	0.0000	9.94E-11		0.00	0
BENZO(a)ANTHRACENE				1.20E+00	1.30E-01	1.00E+00	7.05E-07		6.04E-07		1.08E-10			
BENZO(a)PYRENE				1.10E+00	1.30E-01	1.00E+00	6.46E-07		5.54E-07		9.94E-11			
BENZO(b)FLUORANTHENE				1.10E+00	1.30E-01	1.00E+00	6.46E-07		5.54E-07		9.94E-11			
BENZO(g,h,i)PERYLENE				4.70E-01	1.30E-01	1.00E+00	2.76E-07		2.37E-07		4.25E-11			
BENZO(k)FLUORANTHENE				4.50E-01	1.30E-01	1.00E+00	2.64E-07		2.27E-07		4.06E-11			
bis(2-ETHYLHEXYL) PHTHALATE	2.00E-02	2.00E-02		6.73E-02	1.00E-01	1.00E+00	3.95E-08	0.00	2.61E-08	0.0000	6.08E-12		0.00	0
CHRYSENE				1.30E+00	1.30E-01	1.00E+00	7.63E-07		6.55E-07		1.17E-10			
DIBENZ(a,h)ANTHRACENE				1.80E-01	1.30E-01	1.00E+00	1.06E-07		9.07E-08		1.63E-11			
DIBENZOFURAN	4.00E-03	4.00E-03		7.70E-01		1.00E+00	4.52E-07	0.00			6.95E-11		0.00	0
DI-n-BUTYL PHTHALATE	1.00E-01	1.00E-01		3.84E-01	1.00E-01	1.00E+00	2.26E-07	0.00	1.49E-07	0.0000	3.47E-11		0.00	0
DI-n-OCTYLPHTHALATE	4.00E-02	4.00E-02		1.00E-01	1.00E-01	1.00E+00	5.87E-08	0.00	3.87E-08	0.0000	9.03E-12		0.00	0
FLUORANTHENE	4.00E-02	4.00E-02		2.10E+00	1.30E-01	1.00E+00	1.23E-06	0.00	1.06E-06	0.0000	1.90E-10		0.00	0
FLUORENE	4.00E-02	4.00E-02		1.10E+00	1.30E-01	1.00E+00	6.46E-07	0.00	5.54E-07	0.0000	9.94E-11		0.00	0
INDENO(1,2,3-c,d)PYRENE				5.30E-01	1.30E-01	1.00E+00	3.11E-07		2.67E-07		4.79E-11			
PHENANTHRENE	3.00E-01	3.00E-01		4.20E+00	1.30E-01	1.00E+00	2.47E-06	0.00	2.12E-06	0.0000	3.79E-10		0.00	0
PYRENE	3.00E-02	3.00E-02		3.10E+00	1.30E-01	1.00E+00	1.82E-06	0.00	1.56E-06	0.0001	2.80E-10		0.00	0
DIESEL RANGE ORGANICS				3.70E+02	0	--	2.17E-04				3.34E-08			
GASOLINE RANGE ORGANICS				1.08E+00	0	--	6.37E-07				9.79E-11			
1,2,4-TRIMETHYLBENZENE	5.00E-02	5.00E-02	1.70E-03	8.50E-02		1.00E+00	4.99E-08	0.00			5.07E-07	0.00	0.00	0
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	5.00E-02	5.00E-02	1.70E-03	1.30E-02		1.00E+00	7.63E-09	0.00			1.90E-07	0.00	0.00	0
ACETONE	1.00E-01	1.00E-01	1.00E-01	2.60E-01		1.00E+00	1.53E-07	0.00			2.43E-06	0.00	0.00	0
ETHYLBENZENE	1.00E-01	1.00E-01	2.90E-01	3.80E-02		1.00E+00	2.23E-08	0.00			8.27E-07	0.00	0.00	0
HEXACHLOROBUTADIENE	3.00E-04	3.00E-04	3.00E-04	2.40E-02	1.00E-01	1.00E+00	1.41E-08	0.00	9.30E-09	0.0000	2.17E-12	0.00	0.00	0

AVMA Surface Soil

Fort Richardson- Operable Unit E

Chemical	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC (mg/kg)	ABS_d	ABS_{gi}	Ingestion CDI (mg/kg-day)	Ingestion HQ	Dermal CDI (mg/kg-day)	Dermal HQ	Inhalation CDI (mg/kg-day)	Inhalation HQ	Total HI	% Contribution
ISOPROPYLBENZENE (CUMENE)	1.00E-01	1.00E-01	1.10E-01	1.20E-02		1.00E+00	7.05E-09	0.00			3.93E-07	0.00	0.00	0
METHYL ETHYL KETONE (2-BUTANONE)	6.00E-01	6.00E-01	2.86E-01	7.78E-02		1.00E+00	4.57E-08	0.00			4.70E-07	0.00	0.00	0
METHYLENE CHLORIDE	6.00E-02	6.00E-02	8.57E-01	1.23E-01		1.00E+00	7.22E-08	0.00			5.79E-06	0.00	0.00	0
NAPHTHALENE	2.00E-02	2.00E-02	8.57E-04	3.60E-01	1.30E-01	1.00E+00	2.11E-07	0.00	1.81E-07	0.0000	9.77E-07	0.00	0.00	1
O-XYLENE (1,2-DIMETHYLBENZENE)	2.00E-01	2.00E-01	2.90E-02	9.70E-02	1.00E-01	1.00E+00	5.69E-08	0.00	3.76E-08	0.0000	1.87E-06	0.00	0.00	0
P-CYMENE (p-ISOPROPYLTOLUENE)	1.00E-01	1.00E-01	1.10E-01	3.60E-02		1.00E+00	2.11E-08	0.00			1.18E-06	0.00	0.00	0
TOLUENE	2.00E-01	2.00E-01	1.10E-01	6.20E-02		1.00E+00	3.64E-08	0.00			1.83E-06	0.00	0.00	0
XYLENES, m & p	2.00E-01	2.00E-01	2.90E-02	1.40E-01	1.00E-01	1.00E+00	8.22E-08	0.00	5.42E-08	0.0000	2.69E-06	0.00	0.00	0
								0.15		0.0003		0.015		100
											Total HI =	0.17		

Note:

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

EPC = Exposure Point Concentration

HI = Hazard Index

HQ = Hazard Quotient;

mg/kg-day = milligrams per kilogram per day

RfC = Reference Concentration

RfD_d = Dermal Reference Dose;

RfD_o = Oral Reference Dose

RfD_i = Inhalation Reference Dose

Table C-109
Onsite Industrial Worker Scenario - Potential Excess Lifetime Cancer Risk
AVMA Surface Soil
Fort Richardson - Operable Unit E

Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC (mg/kg)	ABS_d	ABS_{gi}	Ingestion CDI (mg/kg-day)	Ingestion ELCR	Dermal CDI (mg/kg-day)	Dermal ELCR	Inhalation CDI (mg/kg-day)	Inhalation ELCR	Total ELCR	% Contribution
ALUMINUM	B2				2.43E+04		1.00E+00	5.09E-03				7.83E-07			
BARIUM	B2				1.10E+02		7.00E-02	2.32E-05				3.56E-09			
BERYLLIUM	B2			8.40E+00	5.40E-01		7.00E-03	1.13E-07				1.74E-11	1.5E-10	1.5E-10	0
COBALT	B2			9.80E+00	2.44E+01	0	1.00E+00	5.12E-06				7.87E-10	7.7E-09	7.7E-09	0
IRON	B2				4.13E+04	0	1.00E+00	8.66E-03				1.33E-06			
LEAD	B2				3.60E+01	0	1.00E+00	7.55E-06				1.16E-09			
MANGANESE	B2				1.67E+03	0	4.00E-02	3.50E-04				5.39E-08			
NICKEL	B2				1.95E+02	0	4.00E-02	4.09E-05				6.29E-09			
SELENIUM	--				8.36E+00		1.00E+00	1.75E-06				2.70E-10			
VANADIUM	A				7.91E+01	0	2.60E-02	1.66E-05				2.55E-09			
ALPHA BHC	B1	6.30E+00	6.30E+00	6.30E+00	8.60E-04	4.00E-02	1.00E+00	1.80E-10	1.1E-09	4.76E-11	3.0E-10	2.77E-14	1.7E-13	1.4E-09	0
ALPHA CHLORDANE	B1	3.50E-01	3.50E-01	3.50E-01	1.10E-03	4.00E-02	1.00E+00	2.31E-10	8.1E-11	6.09E-11	2.1E-11	3.55E-14	1.2E-14	1.0E-10	0
BETA BHC	A	1.80E+00	1.80E+00	1.80E+00	9.60E-04	4.00E-02	1.00E+00	2.01E-10	3.6E-10	5.31E-11	9.6E-11	3.10E-14	5.6E-14	4.6E-10	0
DELTA BHC	--	6.30E+00	6.30E+00	6.30E+00	8.60E-04	4.00E-02	1.00E+00	1.80E-10	1.1E-09	4.76E-11	3.0E-10	2.77E-14	1.7E-13	1.4E-09	0
DIELDRIN	D	1.60E+01	1.60E+01	1.61E+01	3.60E-04	1.00E-01	1.00E+00	7.55E-11	1.2E-09	4.98E-11	8.0E-10	1.16E-14	1.9E-13	2.0E-09	0
ENDOSULFAN SULFATE	--				3.23E-04	1.00E-01	1.00E+00	6.77E-11		4.47E-11		1.04E-14			
ENDRIN	--				2.20E-03	1.00E-01	1.00E+00	4.61E-10		3.04E-10		7.10E-14			
ENDRIN ALDEHYDE	D				2.83E-03	1.00E-01	1.00E+00	5.93E-10		3.92E-10		9.13E-14			
ENDRIN KETONE	C				3.20E-04	1.00E-01	1.00E+00	6.71E-11		4.43E-11		1.03E-14			
HEPTACHLOR	D	4.50E+00	4.50E+00	4.55E+00	1.50E-03	1.00E-01	1.00E+00	3.15E-10	1.4E-09	2.08E-10	9.4E-10	4.85E-14	2.2E-13	2.4E-09	0
HEPTACHLOR EPOXIDE	D	9.10E+00	9.10E+00	9.10E+00	2.50E-03	1.00E-01	1.00E+00	5.24E-10	4.8E-09	3.46E-10	3.1E-09	8.06E-14	7.3E-13	7.9E-09	0
METHOXYCHLOR	D				2.50E-03	1.00E-01	1.00E+00	5.24E-10		3.46E-10		8.06E-14			
p,p'-DDD	D	2.40E-01	2.40E-01		3.80E-02	3.00E-02	1.00E+00	7.97E-09	1.9E-09	1.58E-09	3.8E-10	1.23E-12		2.3E-09	0
p,p'-DDE	--	3.40E-01	3.40E-01		3.90E-02	3.00E-02	1.00E+00	8.18E-09	2.8E-09	1.62E-09	5.5E-10	1.26E-12		3.3E-09	0
p,p'-DDT	D	3.40E-01	3.40E-01	3.40E-01	2.40E-01	3.00E-02	1.00E+00	5.03E-08	1.7E-08	9.96E-09	3.4E-09	7.74E-12	2.6E-12	2.0E-08	0
2-METHYLNAPHTHALENE	B2				7.70E-01	1.30E-01	1.00E+00	1.61E-07		1.39E-07		2.48E-11			
ACENAPHTHENE	B2				1.20E+00	1.30E-01	1.00E+00	2.52E-07		2.16E-07		3.87E-11			
ANTHRACENE	C				1.10E+00	1.30E-01	1.00E+00	2.31E-07		1.98E-07		3.55E-11			
BENZO(a)ANTHRACENE	--	7.30E-01	7.30E-01		1.20E+00	1.30E-01	1.00E+00	2.52E-07	1.8E-07	2.16E-07	1.6E-07	3.87E-11		3.4E-07	8
BENZO(a)PYRENE	B2	7.30E+00	7.30E+00		1.10E+00	1.30E-01	1.00E+00	2.31E-07	**1.7E-06**	1.98E-07	**1.4E-06**	3.55E-11		**3.1E-06**	69
BENZO(b)FLUORANTHENE	D	7.30E-01	7.30E-01		1.10E+00	1.30E-01	1.00E+00	2.31E-07	1.7E-07	1.98E-07	1.4E-07	3.55E-11		3.1E-07	7
BENZO(g,h,i)PERYLENE	--			1.60E+01	4.70E-01	1.30E-01	1.00E+00	9.85E-08		8.46E-08		1.52E-11	2.4E-10	2.4E-10	0
BENZO(k)FLUORANTHENE	C	7.30E-02	7.30E-02		4.50E-01	1.30E-01	1.00E+00	9.44E-08	6.9E-09	8.10E-08	5.9E-09	1.45E-11		1.3E-08	0
bis(2-ETHYLHEXYL) PHTHALATE	C	1.40E-02	1.40E-02		6.73E-02	1.00E-01	1.00E+00	1.41E-08	2.0E-10	9.32E-09	1.3E-10	2.17E-12		3.3E-10	0
CHRYSENE	--	7.30E-03	7.30E-03		1.30E+00	1.30E-01	1.00E+00	2.73E-07	2.0E-09	2.34E-07	1.7E-09	4.19E-11		3.7E-09	0
DIBENZ(a,h)ANTHRACENE	--	7.30E+00	7.30E+00		1.80E-01	1.30E-01	1.00E+00	3.77E-08	2.8E-07	3.24E-08	2.4E-07	5.81E-12		5.1E-07	11
DIBENZOFURAN	B2				7.70E-01		1.00E+00	1.61E-07				2.48E-11			
DI-n-BUTYL PHTHALATE	B2				3.84E-01	1.00E-01	1.00E+00	8.06E-08		5.32E-08		1.24E-11			
DI-n-OCTYLPHTHALATE	B2				1.00E-01	1.00E-01	1.00E+00	2.10E-08		1.38E-08		3.23E-12			
FLUORANTHENE	D				2.10E+00	1.30E-01	1.00E+00	4.40E-07		3.78E-07		6.77E-11			
FLUORENE	B2				1.10E+00	1.30E-01	1.00E+00	2.31E-07		1.98E-07		3.55E-11			
INDENO(1,2,3-c,d)PYRENE	--	7.30E-01	7.30E-01		5.30E-01	1.30E-01	1.00E+00	1.11E-07	8.1E-08	9.53E-08	7.0E-08	1.71E-11		1.5E-07	3
PHENANTHRENE	B2				4.20E+00	1.30E-01	1.00E+00	8.81E-07		7.56E-07		1.35E-10			
PYRENE	D				3.10E+00	1.30E-01	1.00E+00	6.50E-07		5.58E-07		1.00E-10			
1,2,4-TRIMETHYLBENZENE	D				8.50E-02		1.00E+00	1.78E-08				1.81E-07			
1,3,5-TRIMETHYLBENZENE (MESITYLENI					1.30E-02		1.00E+00	2.73E-09				6.78E-08			
ACETONE					2.60E-01		1.00E+00	5.45E-08				8.69E-07			
ETHYLBENZENE					3.80E-02		1.00E+00	7.97E-09				2.95E-07			
HEXACHLOROBUTADIENE		7.80E-02	7.80E-02	7.80E-02	2.40E-02	1.00E-01	1.00E+00	5.03E-09	3.9E-10	3.32E-09	2.6E-10	7.74E-13	6.0E-14	6.5E-10	0
ISOPROPYLBENZENE (CUMENE)					1.20E-02		1.00E+00	2.52E-09				1.40E-07			
METHYL ETHYL KETONE (2-BUTANONE)					7.78E-02		1.00E+00	1.63E-08				1.68E-07			
METHYLENE CHLORIDE		7.50E-03	7.50E-03	1.65E-03	1.23E-01		1.00E+00	2.58E-08	1.9E-10			2.07E-06	3.4E-09	3.6E-09	0
NAPHTHALENE					3.60E-01	1.30E-01	1.00E+00	7.55E-08		6.48E-08		3.49E-07			
O-XYLENE (1,2-DIMETHYLBENZENE)					9.70E-02	1.00E-01	1.00E+00	2.03E-08		1.34E-08		6.67E-07			
P-CYMENE (p-ISOPROPYLTOLUENE)					3.60E-02		1.00E+00	7.55E-09				4.21E-07			

AVMA Surface Soil

Fort Richardson - Operable Unit E

Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC (mg/kg)	ABS_d	ABS_{gi}	Ingestion CDI (mg/kg-day)	Ingestion ELCR	Dermal CDI (mg/kg-day)	Dermal ELCR	Inhalation CDI (mg/kg-day)	Inhalation ELCR	Total ELCR	% Contribution
TOLUENE					6.20E-02		1.00E+00	1.30E-08				6.53E-07			
XYLENES, m & p					1.40E-01	1.00E-01	1.00E+00	2.94E-08		1.94E-08		9.62E-07			
Total Risk									**2.4E-06**		**2.1E-06**		1.2E-08		100
												Total Risk =	**4.5E-06**		

Note:
Cancer WOE Classifications:
Group A: Human carcinogen
Group B (B1, B2): Probable human carcinogen
Group C: Possible human carcinogen
Group D: Not classifiable
Group E: No evidence of carcinogenicity
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
ELCR = Excess Lifetime Cancer Risk
EPC = Exposure Point Concentration
mg/kg-day = milligrams per kilogram per day
SF_d = Dermal Slope Factor
SF_o = Oral Slope Factor
SF_i = Inhalation Slope Factor
WOE = Weight of Evidence

Table C-110
Onsite Industrial Worker Scenario - Potential Noncarcinogenic Risk
AVMA Surface Soil
Fort Richardson- Operable Unit E

Chemical	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC (mg/kg)	ABS_d	ABS_{gi}	Ingestion CDI (mg/kg-day)	Ingestion HQ	Dermal CDI (mg/kg-day)	Dermal HQ	Inhalation CDI (mg/kg-day)	Inhalation HQ	Total HI	% Contribution
ALUMINUM	1.00E+00	1.00E+00	1.40E-03	2.43E+04		1.00E+00	1.43E-02	0.01			2.19E-06	0.00	0.02	9
BARIUM	7.00E-02	4.90E-03	1.43E-04	1.10E+02		7.00E-02	6.48E-05	0.00			9.97E-09	0.00	0.00	1
BERYLLIUM	2.00E-03	1.40E-05	5.71E-06	5.40E-01		7.00E-03	3.17E-07	0.00			4.88E-11	0.00	0.00	0
COBALT	2.00E-02	2.00E-02	5.70E-06	2.44E+01	0	1.00E+00	1.43E-05	0.00			2.20E-09	0.00	0.00	1
IRON	3.00E-01	3.00E-01		4.13E+04	0	1.00E+00	2.43E-02	0.08			3.73E-06		0.08	48
LEAD				3.60E+01	0	1.00E+00	2.11E-05				3.25E-09			
MANGANESE	2.40E-02	9.60E-04	1.40E-05	1.67E+03	0	4.00E-02	9.80E-04	0.04			1.51E-07	0.01	0.05	31
NICKEL	2.00E-02	8.00E-04		1.95E+02	0	4.00E-02	1.14E-04	0.01			1.76E-08		0.01	3
SELENIUM	5.00E-03	5.00E-03		8.36E+00		1.00E+00	4.91E-06	0.00			7.55E-10		0.00	1
VANADIUM	7.00E-03	1.82E-04		7.91E+01	0	2.60E-02	4.65E-05	0.01			7.15E-09		0.01	4
ALPHA BHC	5.00E-04	5.00E-04		8.60E-04	4.00E-02	1.00E+00	5.05E-10	0.00	1.33E-10	0.0000	7.77E-14		0.00	0
ALPHA CHLORDANE	5.00E-04	5.00E-04	2.00E-04	1.10E-03	4.00E-02	1.00E+00	6.46E-10	0.00	1.70E-10	0.0000	9.94E-14	0.00	0.00	0
BETA BHC	2.00E-04	2.00E-04		9.60E-04	4.00E-02	1.00E+00	5.64E-10	0.00	1.49E-10	0.0000	8.67E-14		0.00	0
DELTA BHC	5.00E-04	5.00E-04		8.60E-04	4.00E-02	1.00E+00	5.05E-10	0.00	1.33E-10	0.0000	7.77E-14		0.00	0
DIELDRIN	5.00E-05	5.00E-05		3.60E-04	1.00E-01	1.00E+00	2.11E-10	0.00	1.39E-10	0.0000	3.25E-14		0.00	0
ENDOSULFAN SULFATE	6.00E-03	6.00E-03		3.23E-04	1.00E-01	1.00E+00	1.90E-10	0.00	1.25E-10	0.0000	2.92E-14		0.00	0
ENDRIN	3.00E-04	3.00E-04		2.20E-03	1.00E-01	1.00E+00	1.29E-09	0.00	8.52E-10	0.0000	1.99E-13		0.00	0
ENDRIN ALDEHYDE	3.00E-04	3.00E-04		2.83E-03	1.00E-01	1.00E+00	1.66E-09	0.00	1.10E-09	0.0000	2.56E-13		0.00	0
ENDRIN KETONE	3.00E-04	3.00E-04		3.20E-04	1.00E-01	1.00E+00	1.88E-10	0.00	1.24E-10	0.0000	2.89E-14		0.00	0
HEPTACHLOR	5.00E-04	5.00E-04		1.50E-03	1.00E-01	1.00E+00	8.82E-10	0.00	5.82E-10	0.0000	1.36E-13		0.00	0
HEPTACHLOR EPOXIDE	1.30E-05	1.30E-05		2.50E-03	1.00E-01	1.00E+00	1.47E-09	0.00	9.69E-10	0.0001	2.26E-13		0.00	0
METHOXYCHLOR	5.00E-03	5.00E-03		2.50E-03	1.00E-01	1.00E+00	1.47E-09	0.00	9.69E-10	0.0000	2.26E-13		0.00	0
p,p'-DDD				3.80E-02	3.00E-02	1.00E+00	2.23E-08		4.42E-09		3.43E-12			
p,p'-DDE				3.90E-02	3.00E-02	1.00E+00	2.29E-08		4.53E-09		3.52E-12			
p,p'-DDT	5.00E-04	5.00E-04		2.40E-01	3.00E-02	1.00E+00	1.41E-07	0.00	2.79E-08	0.0001	2.17E-11		0.00	0
2-METHYLNAPHTHALENE	9.00E-03	9.00E-03		7.70E-01	1.30E-01	1.00E+00	4.52E-07	0.00	3.88E-07	0.0000	6.95E-11		0.00	0
ACENAPHTHENE	6.00E-02	6.00E-02		1.20E+00	1.30E-01	1.00E+00	7.05E-07	0.00	6.04E-07	0.0000	1.08E-10		0.00	0
ANTHRACENE	3.00E-01	3.00E-01		1.10E+00	1.30E-01	1.00E+00	6.46E-07	0.00	5.54E-07	0.0000	9.94E-11		0.00	0
BENZO(a)ANTHRACENE				1.20E+00	1.30E-01	1.00E+00	7.05E-07		6.04E-07		1.08E-10			
BENZO(a)PYRENE				1.10E+00	1.30E-01	1.00E+00	6.46E-07		5.54E-07		9.94E-11			
BENZO(b)FLUORANTHENE				1.10E+00	1.30E-01	1.00E+00	6.46E-07		5.54E-07		9.94E-11			
BENZO(g,h,i)PERYLENE				4.70E-01	1.30E-01	1.00E+00	2.76E-07		2.37E-07		4.25E-11			
BENZO(k)FLUORANTHENE				4.50E-01	1.30E-01	1.00E+00	2.64E-07		2.27E-07		4.06E-11			
bis(2-ETHYLHEXYL) PHTHALATE	2.00E-02	2.00E-02		6.73E-02	1.00E-01	1.00E+00	3.95E-08	0.00	2.61E-08	0.0000	6.08E-12		0.00	0
CHRYSENE				1.30E+00	1.30E-01	1.00E+00	7.63E-07		6.55E-07		1.17E-10			
DIBENZ(a,h)ANTHRACENE				1.80E-01	1.30E-01	1.00E+00	1.06E-07		9.07E-08		1.63E-11			
DIBENZOFURAN	4.00E-03	4.00E-03		7.70E-01		1.00E+00	4.52E-07	0.00			6.95E-11		0.00	0
DI-n-BUTYL PHTHALATE	1.00E-01	1.00E-01		3.84E-01	1.00E-01	1.00E+00	2.26E-07	0.00	1.49E-07	0.0000	3.47E-11		0.00	0
DI-n-OCTYLPHTHALATE	4.00E-02	4.00E-02		1.00E-01	1.00E-01	1.00E+00	5.87E-08	0.00	3.87E-08	0.0000	9.03E-12		0.00	0
FLUORANTHENE	4.00E-02	4.00E-02		2.10E+00	1.30E-01	1.00E+00	1.23E-06	0.00	1.06E-06	0.0000	1.90E-10		0.00	0
FLUORENE	4.00E-02	4.00E-02		1.10E+00	1.30E-01	1.00E+00	6.46E-07	0.00	5.54E-07	0.0000	9.94E-11		0.00	0
INDENO(1,2,3-c,d)PYRENE				5.30E-01	1.30E-01	1.00E+00	3.11E-07		2.67E-07		4.79E-11			
PHENANTHRENE	3.00E-01	3.00E-01		4.20E+00	1.30E-01	1.00E+00	2.47E-06	0.00	2.12E-06	0.0000	3.79E-10		0.00	0
PYRENE	3.00E-02	3.00E-02		3.10E+00	1.30E-01	1.00E+00	1.82E-06	0.00	1.56E-06	0.0001	2.80E-10		0.00	0
1,2,4-TRIMETHYLBENZENE	5.00E-02	5.00E-02	1.70E-03	8.50E-02		1.00E+00	4.99E-08	0.00			5.07E-07	0.00	0.00	0
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	5.00E-02	5.00E-02	1.70E-03	1.30E-02		1.00E+00	7.63E-09	0.00			1.90E-07	0.00	0.00	0
ACETONE	1.00E-01	1.00E-01	1.00E-01	2.60E-01		1.00E+00	1.53E-07	0.00			2.43E-06	0.00	0.00	0
ETHYLBENZENE	1.00E-01	1.00E-01	2.90E-01	3.80E-02		1.00E+00	2.23E-08	0.00			8.27E-07	0.00	0.00	0
HEXACHLOROBUTADIENE	3.00E-04	3.00E-04	3.00E-04	2.40E-02	1.00E-01	1.00E+00	1.41E-08	0.00	9.30E-09	0.0000	2.17E-12	0.00	0.00	0
ISOPROPYLBENZENE (CUMENE)	1.00E-01	1.00E-01	1.10E-01	1.20E-02		1.00E+00	7.05E-09	0.00			3.93E-07	0.00	0.00	0
METHYL ETHYL KETONE (2-BUTANONE)	6.00E-01	6.00E-01	2.86E-01	7.78E-02		1.00E+00	4.57E-08	0.00			4.70E-07	0.00	0.00	0
METHYLENE CHLORIDE	6.00E-02	6.00E-02	8.57E-01	1.23E-01		1.00E+00	7.22E-08	0.00			5.79E-06	0.00	0.00	0
NAPHTHALENE	2.00E-02	2.00E-02	8.57E-04	3.60E-01	1.30E-01	1.00E+00	2.11E-07	0.00	1.81E-07	0.0000	9.77E-07	0.00	0.00	1
O-XYLENE (1,2-DIMETHYLBENZENE)	2.00E-01	2.00E-01	2.90E-02	9.70E-02	1.00E-01	1.00E+00	5.69E-08	0.00	3.76E-08	0.0000	1.87E-06	0.00	0.00	0
P-CYMENE (p-ISOPROPYLTOLUENE)	1.00E-01	1.00E-01	1.10E-01	3.60E-02		1.00E+00	2.11E-08	0.00			1.18E-06	0.00	0.00	0

AVMA Surface Soil
Fort Richardson- Operable Unit E

Chemical	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC (mg/kg)	ABS_d	ABS_{gi}	Ingestion CDI (mg/kg-day)	Ingestion HQ	Dermal CDI (mg/kg-day)	Dermal HQ	Inhalation CDI (mg/kg-day)	Inhalation HQ	Total HI	% Contribution
TOLUENE	2.00E-01	2.00E-01	1.10E-01	6.20E-02		1.00E+00	3.64E-08	0.00			1.83E-06	0.00	0.00	0
XYLENES, m & p	2.00E-01	2.00E-01	2.90E-02	1.40E-01	1.00E-01	1.00E+00	8.22E-08	0.00	5.42E-08	0.0000	2.69E-06	0.00	0.00	0
								0.15		0.0003		0.015		100
											Total HI =	0.17		

Note:
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
EPC = Exposure Point Concentration
HI = Hazard Index
HQ = Hazard Quotient;
mg/kg-day = milligrams per kilogram per day
RfC = Reference Concentration
RfD_d = Dermal Reference Dose;
RfD_o = Oral Reference Dose
RfD_i = Inhalation Reference Dose

Table C-111
Onsite Trespasser Scenario - Potential Excess Lifetime Cancer Risk
AVMA Surface Soil
Fort Richardson - Operable Unit E

Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC (mg/kg)	ABS_d	ABS_{gi}	Ingestion CDI (mg/kg-day)	Ingestion ELCR	Dermal CDI (mg/kg-day)	Dermal ELCR	Inhalation CDI (mg/kg-day)	Inhalation ELCR	Total ELCR	% Contribution
ALUMINUM	--				2.43E+04		1.00E+00	3.42E-04				5.18E-08			
BARIUM	D				1.10E+02		7.00E-02	1.56E-06				2.36E-10			
BERYLLIUM	B1			8.40E+00	5.40E-01		7.00E-03	7.61E-09				1.15E-12	9.7E-12	9.7E-12	0
COBALT	--			9.80E+00	2.44E+01	0	1.00E+00	3.44E-07				5.21E-11	5.1E-10	5.1E-10	0
IRON	--				4.13E+04	0	1.00E+00	5.82E-04				8.82E-08			
LEAD	--				3.60E+01	0	1.00E+00	5.07E-07				7.69E-11			
MANGANESE	D				1.67E+03	0	4.00E-02	2.35E-05				3.57E-09			
NICKEL	D				1.95E+02	0	4.00E-02	2.75E-06				4.16E-10			
SELENIUM	D				8.36E+00		1.00E+00	1.18E-07				1.79E-11			
VANADIUM	--				7.91E+01	0	2.60E-02	1.11E-06				1.69E-10			
ALPHA BHC	B2	6.30E+00	6.30E+00	6.30E+00	8.60E-04	4.00E-02	1.00E+00	1.21E-11	7.6E-11	1.93E-12	1.2E-11	1.84E-15	1.2E-14	8.9E-11	0
ALPHA CHLORDANE	B2	3.50E-01	3.50E-01	3.50E-01	1.10E-03	4.00E-02	1.00E+00	1.55E-11	5.4E-12	2.47E-12	8.7E-13	2.35E-15	8.2E-16	6.3E-12	0
BETA BHC	C	1.80E+00	1.80E+00	1.80E+00	9.60E-04	4.00E-02	1.00E+00	1.35E-11	2.4E-11	2.16E-12	3.9E-12	2.05E-15	3.7E-15	2.8E-11	0
DELTA BHC	--	6.30E+00	6.30E+00	6.30E+00	8.60E-04	4.00E-02	1.00E+00	1.21E-11	7.6E-11	1.93E-12	1.2E-11	1.84E-15	1.2E-14	8.9E-11	0
DIELDRIN	B2	1.60E+01	1.60E+01	1.61E+01	3.60E-04	1.00E-01	1.00E+00	5.07E-12	8.1E-11	2.02E-12	3.2E-11	7.69E-16	1.2E-14	1.1E-10	0
ENDOSULFAN SULFATE	--				3.23E-04	1.00E-01	1.00E+00	4.55E-12		1.81E-12		6.89E-16			
ENDRIN	D				2.20E-03	1.00E-01	1.00E+00	3.10E-11		1.24E-11		4.70E-15			
ENDRIN ALDEHYDE	D				2.83E-03	1.00E-01	1.00E+00	3.99E-11		1.59E-11		6.04E-15			
ENDRIN KETONE	--				3.20E-04	1.00E-01	1.00E+00	4.51E-12		1.80E-12		6.83E-16			
HEPTACHLOR	B2	4.50E+00	4.50E+00	4.55E+00	1.50E-03	1.00E-01	1.00E+00	2.12E-11	9.5E-11	8.45E-12	3.8E-11	3.21E-15	1.5E-14	1.3E-10	0
HEPTACHLOR EPOXIDE	B2	9.10E+00	9.10E+00	9.10E+00	2.50E-03	1.00E-01	1.00E+00	3.52E-11	3.2E-10	1.41E-11	1.3E-10	5.34E-15	4.9E-14	4.5E-10	0
METHOXYCHLOR	D				2.50E-03	1.00E-01	1.00E+00	3.52E-11		1.41E-11		5.34E-15			
p,p'-DDD	B2	2.40E-01	2.40E-01		3.80E-02	3.00E-02	1.00E+00	5.35E-10	1.3E-10	6.41E-11	1.5E-11	8.11E-14		1.4E-10	0
p,p'-DDE	B2	3.40E-01	3.40E-01		3.90E-02	3.00E-02	1.00E+00	5.50E-10	1.9E-10	6.58E-11	2.2E-11	8.33E-14		2.1E-10	0
p,p'-DDT	B2	3.40E-01	3.40E-01	3.40E-01	2.40E-01	3.00E-02	1.00E+00	3.38E-09	1.1E-09	4.05E-10	1.4E-10	5.12E-13	1.7E-13	1.3E-09	0
2-METHYLNAPHTHALENE	--				7.70E-01	1.30E-01	1.00E+00	1.08E-08		5.63E-09		1.64E-12			
ACENAPHTHENE	D				1.20E+00	1.30E-01	1.00E+00	1.69E-08		8.77E-09		2.56E-12			
ANTHRACENE	D				1.10E+00	1.30E-01	1.00E+00	1.55E-08		8.04E-09		2.35E-12			
BENZO(a)ANTHRACENE	B2	7.30E-01	7.30E-01		1.20E+00	1.30E-01	1.00E+00	1.69E-08	1.2E-08	8.77E-09	6.4E-09	2.56E-12		1.9E-08	6
BENZO(a)PYRENE	B2	7.30E+00	7.30E+00		1.10E+00	1.30E-01	1.00E+00	1.55E-08	1.1E-07	8.04E-09	5.9E-08	2.35E-12		1.7E-07	57
BENZO(b)FLUORANTHENE	B2	7.30E-01	7.30E-01		1.10E+00	1.30E-01	1.00E+00	1.55E-08	1.1E-08	8.04E-09	5.9E-09	2.35E-12		1.7E-08	6
BENZO(g,h,i)PERYLENE	--			1.60E+01	4.70E-01	1.30E-01	1.00E+00	6.62E-09		3.43E-09		1.00E-12	1.6E-11	1.6E-11	0
BENZO(k)FLUORANTHENE	B2	7.30E-01	7.30E-01		4.50E-01	1.30E-01	1.00E+00	6.34E-09	4.6E-09	3.29E-09	2.4E-09	9.61E-13		7.0E-09	2
bis(2-ETHYLHEXYL) PHTHALATE	--	1.40E-01	1.40E-01		6.73E-02	1.00E-01	1.00E+00	9.49E-10	1.3E-10	3.78E-10	5.3E-11	1.44E-13		1.9E-10	0
CHRYSENE	B2	7.30E-01	7.30E-01		1.30E+00	1.30E-01	1.00E+00	1.83E-08	1.3E-08	9.50E-09	6.9E-09	2.78E-12		2.0E-08	7
DIBENZ(a,h)ANTHRACENE	B2	7.30E+00	7.30E+00		1.80E-01	1.30E-01	1.00E+00	2.54E-09	1.9E-08	1.32E-09	9.6E-09	3.84E-13		2.8E-08	9
DIBENZOFURAN	D				7.70E-01		1.00E+00	1.08E-08				1.64E-12			
DI-n-BUTYL PHTHALATE	D				3.84E-01	1.00E-01	1.00E+00	5.42E-09		2.16E-09		8.21E-13			
DI-n-OCTYLPHTHALATE	D				1.00E-01	1.00E-01	1.00E+00	1.41E-09		5.62E-10		2.13E-13			
FLUORANTHENE	D				2.10E+00	1.30E-01	1.00E+00	2.96E-08		1.53E-08		4.48E-12			
FLUORENE	D				1.10E+00	1.30E-01	1.00E+00	1.55E-08		8.04E-09		2.35E-12			
INDENO(1,2,3-c,d)PYRENE	B2	7.30E-01	7.30E-01		5.30E-01	1.30E-01	1.00E+00	7.47E-09	5.5E-09	3.87E-09	2.8E-09	1.13E-12		8.3E-09	3
PHENANTHRENE	D				4.20E+00	1.30E-01	1.00E+00	5.92E-08		3.07E-08		8.97E-12			
PYRENE	D				3.10E+00	1.30E-01	1.00E+00	4.37E-08		2.27E-08		6.62E-12			
1,2,4-TRIMETHYLBENZENE	--				8.50E-02		1.00E+00	1.20E-09				1.22E-08			
1,3,5-TRIMETHYLBENZENE (MESITYLENI	--				1.30E-02		1.00E+00	1.83E-10				4.56E-09			
ACETONE	D				2.60E-01		1.00E+00	3.66E-09				5.84E-08			
ETHYLBENZENE	D				3.80E-02		1.00E+00	5.35E-10				1.98E-08			
HEXACHLOROBUTADIENE	C	7.80E-01	7.80E-01	7.80E-01	2.40E-02	1.00E-01	1.00E+00	3.38E-10	2.6E-10	1.35E-10	1.1E-10	5.12E-14	4.0E-14	3.7E-10	0
ISOPROPYLBENZENE (CUMENE)	D				1.20E-02		1.00E+00	1.69E-10				9.43E-09			
METHYL ETHYL KETONE (2-BUTANONE)	D				7.78E-02		1.00E+00	1.10E-09				1.13E-08			
METHYLENE CHLORIDE	B2	7.50E-01	7.50E-01	1.65E-01	1.23E-01		1.00E+00	1.73E-09	1.3E-09			1.39E-07	2.3E-08	2.4E-08	8
NAPHTHALENE	C				3.60E-01	1.30E-01	1.00E+00	5.07E-09		2.63E-09		2.35E-08			
O-XYLENE (1,2-DIMETHYLBENZENE)	D				9.70E-02	1.00E-01	1.00E+00	1.37E-09		5.45E-10		4.48E-08			
P-CYMENE (p-ISOPROPYLTOLUENE)	D				3.60E-02		1.00E+00	5.07E-10				2.83E-08			

AVMA Surface Soil
Fort Richardson - Operable Unit E

Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC (mg/kg)	ABS_d	ABS_{gi}	Ingestion CDI (mg/kg-day)	Ingestion ELCR	Dermal CDI (mg/kg-day)	Dermal ELCR	Inhalation CDI (mg/kg-day)	Inhalation ELCR	Total ELCR	% Contribution
TOLUENE	D				6.20E-02		1.00E+00	8.74E-10				4.39E-08			
XYLENES, m & p	D				1.40E-01	1.00E-01	1.00E+00	1.97E-09		7.87E-10		6.47E-08			
Total Risk									1.8E-07		9.3E-08		2.3E-08		100
												Total Risk =	3.0E-07		

Note:
Cancer WOE Classifications:
Group A: Human carcinogen
Group B (B1, B2): Probable human carcinogen
Group C: Possible human carcinogen
Group D: Not classifiable
Group E: No evidence of carcinogenicity
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
ELCR = Excess Lifetime Cancer Risk
EPC = Exposure Point Concentration
mg/kg-day = milligrams per kilogram per day
SF_d = Dermal Slope Factor
SF_o = Oral Slope Factor
SF_i = Inhalation Slope Factor
WOE = Weight of Evidence

Table C-112
Onsite Trespasser Scenario - Potential Noncarcinogenic Risk
AVMA Surface Soil
Fort Richardson- Operable Unit E

Chemical	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC (mg/kg)	ABS_d	ABS_{gi}	Ingestion CDI (mg/kg-day)	Ingestion HQ	Dermal CDI (mg/kg-day)	Dermal HQ	Inhalation CDI (mg/kg-day)	Inhalation HQ	Total HI	% Contribution
ALUMINUM	1.00E+00	1.00E+00	1.40E-01	2.43E+04		1.00E+00	2.66E-03	0.00			4.03E-07	0.00	0.00	14
BARIUM	7.00E-01	4.90E-02	1.43E-01	1.10E+02		7.00E-02	1.21E-05	0.00			1.83E-09	0.00	0.00	0
BERYLLIUM	2.00E-01	1.40E-03	5.71E-01	5.40E-01		7.00E-03	5.92E-08	0.00			8.97E-12	0.00	0.00	0
COBALT	2.00E-01	2.00E-01	5.70E-01	2.44E+01	0	1.00E+00	2.67E-06	0.00			4.05E-10	0.00	0.00	0
IRON	3.00E-01	3.00E-01		4.13E+04	0	1.00E+00	4.53E-03	0.02			6.86E-07		0.02	81
LEAD				3.60E+01	0	1.00E+00	3.95E-06				5.98E-10			
MANGANESE	2.40E-01	9.60E-03	1.40E-01	1.67E+03	0	4.00E-02	1.83E-04	0.00			2.77E-08	0.00	0.00	4
NICKEL	2.00E-01	8.00E-03		1.95E+02	0	4.00E-02	2.14E-05	0.00			3.24E-09		0.00	1
SELENIUM	5.00E-01	5.00E-01		8.36E+00		1.00E+00	9.17E-07	0.00			1.39E-10		0.00	0
VANADIUM	7.00E-01	1.82E-02		7.91E+01	0	2.60E-02	8.67E-06	0.00			1.31E-09		0.00	0
ALPHA BHC	5.00E-01	5.00E-01		8.60E-04	4.00E-02	1.00E+00	9.42E-11	0.00	1.50E-11	0.0000	1.43E-14		0.00	0
ALPHA CHLORDANE	5.00E-01	5.00E-01	2.00E-01	1.10E-03	4.00E-02	1.00E+00	1.21E-10	0.00	1.92E-11	0.0000	1.83E-14	0.00	0.00	0
BETA BHC	2.00E-01	2.00E-01		9.60E-04	4.00E-02	1.00E+00	1.05E-10	0.00	1.68E-11	0.0000	1.59E-14		0.00	0
DELTA BHC	5.00E-01	5.00E-01		8.60E-04	4.00E-02	1.00E+00	9.42E-11	0.00	1.50E-11	0.0000	1.43E-14		0.00	0
DIELDRIN	5.00E-01	5.00E-01		3.60E-04	1.00E-01	1.00E+00	3.95E-11	0.00	1.57E-11	0.0000	5.98E-15		0.00	0
ENDOSULFAN SULFATE	6.00E-01	6.00E-01		3.23E-04	1.00E-01	1.00E+00	3.54E-11	0.00	1.41E-11	0.0000	5.36E-15		0.00	0
ENDRIN	3.00E-01	3.00E-01		2.20E-03	1.00E-01	1.00E+00	2.41E-10	0.00	9.62E-11	0.0000	3.65E-14		0.00	0
ENDRIN ALDEHYDE	3.00E-01	3.00E-01		2.83E-03	1.00E-01	1.00E+00	3.10E-10	0.00	1.24E-10	0.0000	4.70E-14		0.00	0
ENDRIN KETONE	3.00E-01	3.00E-01		3.20E-04	1.00E-01	1.00E+00	3.51E-11	0.00	1.40E-11	0.0000	5.31E-15		0.00	0
HEPTACHLOR	5.00E-01	5.00E-01		1.50E-03	1.00E-01	1.00E+00	1.65E-10	0.00	6.57E-11	0.0000	2.50E-14		0.00	0
HEPTACHLOR EPOXIDE	1.30E-01	1.30E-01		2.50E-03	1.00E-01	1.00E+00	2.74E-10	0.00	1.09E-10	0.0000	4.15E-14		0.00	0
METHOXYCHLOR	5.00E-01	5.00E-01		2.50E-03	1.00E-01	1.00E+00	2.74E-10	0.00	1.09E-10	0.0000	4.15E-14		0.00	0
p,p'-DDD				3.80E-02	3.00E-02	1.00E+00	4.16E-09		4.98E-10		6.31E-13			
p,p'-DDE				3.90E-02	3.00E-02	1.00E+00	4.27E-09		5.12E-10		6.48E-13			
p,p'-DDT	5.00E-01	5.00E-01		2.40E-01	3.00E-02	1.00E+00	2.63E-08	0.00	3.15E-09	0.0000	3.99E-12		0.00	0
2-METHYLNAPHTHALENE	9.00E-01	9.00E-01		7.70E-01	1.30E-01	1.00E+00	8.44E-08	0.00	4.38E-08	0.0000	1.28E-11		0.00	0
ACENAPHTHENE	6.00E-01	6.00E-01		1.20E+00	1.30E-01	1.00E+00	1.32E-07	0.00	6.82E-08	0.0000	1.99E-11		0.00	0
ANTHRACENE	3.00E-01	3.00E-01		1.10E+00	1.30E-01	1.00E+00	1.21E-07	0.00	6.25E-08	0.0000	1.83E-11		0.00	0
BENZO(a)ANTHRACENE				1.20E+00	1.30E-01	1.00E+00	1.32E-07		6.82E-08		1.99E-11			
BENZO(a)PYRENE				1.10E+00	1.30E-01	1.00E+00	1.21E-07		6.25E-08		1.83E-11			
BENZO(b)FLUORANTHENE				1.10E+00	1.30E-01	1.00E+00	1.21E-07		6.25E-08		1.83E-11			
BENZO(g,h,i)PERYLENE				4.70E-01	1.30E-01	1.00E+00	5.15E-08		2.67E-08		7.80E-12			
BENZO(k)FLUORANTHENE				4.50E-01	1.30E-01	1.00E+00	4.93E-08		2.56E-08		7.47E-12			
bis(2-ETHYLHEXYL) PHTHALATE	2.00E-01	2.00E-01		6.73E-02	1.00E-01	1.00E+00	7.38E-09	0.00	2.94E-09	0.0000	1.12E-12		0.00	0
CHRYSENE				1.30E+00	1.30E-01	1.00E+00	1.42E-07		7.39E-08		2.16E-11			
DIBENZ(a,h)ANTHRACENE				1.80E-01	1.30E-01	1.00E+00	1.97E-08		1.02E-08		2.99E-12			
DIBENZOFURAN	4.00E-01	4.00E-01		7.70E-01		1.00E+00	8.44E-08	0.00			1.28E-11		0.00	0
DI-n-BUTYL PHTHALATE	1.00E-01	1.00E-01		3.84E-01	1.00E-01	1.00E+00	4.21E-08	0.00	1.68E-08	0.0000	6.38E-12		0.00	0
DI-n-OCTYLPHTHALATE	4.00E-01	4.00E-01		1.00E-01	1.00E-01	1.00E+00	1.10E-08	0.00	4.37E-09	0.0000	1.66E-12		0.00	0
FLUORANTHENE	4.00E-01	4.00E-01		2.10E+00	1.30E-01	1.00E+00	2.30E-07	0.00	1.19E-07	0.0000	3.49E-11		0.00	0
FLUORENE	4.00E-01	4.00E-01		1.10E+00	1.30E-01	1.00E+00	1.21E-07	0.00	6.25E-08	0.0000	1.83E-11		0.00	0
INDENO(1,2,3-c,d)PYRENE				5.30E-01	1.30E-01	1.00E+00	5.81E-08		3.01E-08		8.80E-12			
PHENANTHRENE	3.00E-01	3.00E-01		4.20E+00	1.30E-01	1.00E+00	4.60E-07	0.00	2.39E-07	0.0000	6.97E-11		0.00	0
PYRENE	3.00E-01	3.00E-01		3.10E+00	1.30E-01	1.00E+00	3.40E-07	0.00	1.76E-07	0.0000	5.15E-11		0.00	0
1,2,4-TRIMETHYLBENZENE	5.00E-01	5.00E-01	1.70E-01	8.50E-02		1.00E+00	9.32E-09	0.00			9.47E-08	0.00	0.00	0
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	5.00E-01	5.00E-01	1.70E-01	1.30E-02		1.00E+00	1.42E-09	0.00			3.55E-08	0.00	0.00	0
ACETONE	1.00E-01	1.00E-01	1.00E-01	2.60E-01		1.00E+00	2.85E-08	0.00			4.54E-07	0.00	0.00	0
ETHYLBENZENE	1.00E-01	1.00E-01	2.90E-01	3.80E-02		1.00E+00	4.16E-09	0.00			1.54E-07	0.00	0.00	0
HEXACHLOROBUTADIENE	3.00E-01	3.00E-01	3.00E-01	2.40E-02	1.00E-01	1.00E+00	2.63E-09	0.00	1.05E-09	0.0000	3.99E-13	0.00	0.00	0
ISOPROPYLBENZENE (CUMENE)	1.00E-01	1.00E-01	1.10E-01	1.20E-02		1.00E+00	1.32E-09	0.00			7.33E-08	0.00	0.00	0
METHYL ETHYL KETONE (2-BUTANONE)	6.00E-01	6.00E-01	2.86E-01	7.78E-02		1.00E+00	8.53E-09	0.00			8.78E-08	0.00	0.00	0
METHYLENE CHLORIDE	6.00E-01	6.00E-01	8.57E-01	1.23E-01		1.00E+00	1.35E-08	0.00			1.08E-06	0.00	0.00	0
NAPHTHALENE	2.00E-01	2.00E-01	8.57E-01	3.60E-01	1.30E-01	1.00E+00	3.95E-08	0.00	2.05E-08	0.0000	1.82E-07	0.00	0.00	0
O-XYLENE (1,2-DIMETHYLBENZENE)	2.00E-01	2.00E-01	2.90E-01	9.70E-02	1.00E-01	1.00E+00	1.06E-08	0.00	4.24E-09	0.0000	3.48E-07	0.00	0.00	0
P-CYMENE (p-ISOPROPYLTOLUENE)	1.00E-01	1.00E-01	1.10E-01	3.60E-02		1.00E+00	3.95E-09	0.00			2.20E-07	0.00	0.00	0

AVMA Surface Soil
Fort Richardson- Operable Unit E

Chemical	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC (mg/kg)	ABS_d	ABS_{gi}	Ingestion CDI (mg/kg-day)	Ingestion HQ	Dermal CDI (mg/kg-day)	Dermal HQ	Inhalation CDI (mg/kg-day)	Inhalation HQ	Total HI	% Contribution
TOLUENE	2.00E-01	2.00E-01	1.10E-01	6.20E-02		1.00E+00	6.79E-09	0.00			3.41E-07	0.00	0.00	0
XYLENES, m & p	2.00E-01	2.00E-01	2.90E-01	1.40E-01	1.00E-01	1.00E+00	1.53E-08	0.00	6.12E-09	0.0000	5.03E-07	0.00	0.00	0
								0.019		0.0000026		0.000019		100
											Total HI =	0.019		

Note:
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
EPC = Exposure Point Concentration
HI = Hazard Index
HQ = Hazard Quotient;
mg/kg-day = milligrams per kilogram per day
RfC = Reference Concentration
RfD_d = Dermal Reference Dose;
RfD_o = Oral Reference Dose
RfD_i = Inhalation Reference Dose

Table C-113

Hypothetical Future Residential Scenario - Potential Excess Lifetime Cancer Risk

AVMA Surface Soil

Fort Richardson - Operable Unit E

Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC (mg/kg)	ABS_d	ABS_{gi}	Ingestion CDI (mg/kg-day)	Ingestion ELCR	Dermal CDI (mg/kg-day)	Dermal ELCR	Inhalation CDI (mg/kg-day)	Inhalation ELCR	Total Risk	% Contribution
ALUMINUM	--				2.43E+04		1	2.17E-02				1.56E-06			
BARIUM	D				1.10E+02		0	9.85E-05				7.11E-09			
BERYLLIUM	B1			8.40E+00	5.40E-01		0	4.82E-07				3.48E-11	2.9E-10	2.9E-10	0
COBALT	--			9.80E+00	2.44E+01	0	1	2.18E-05				1.57E-09	1.5E-08	1.5E-08	0
IRON	--				4.13E+04	0	1	3.69E-02				2.66E-06			
LEAD	--				3.60E+01	0	1	3.21E-05				2.32E-09			
MANGANESE	D				1.67E+03	0	0	1.49E-03				1.08E-07			
NICKEL	D				1.95E+02	0	0	1.74E-04				1.26E-08			
SELENIUM	D				8.36E+00		1	7.46E-06				5.39E-10			
VANADIUM	--				7.91E+01	0	0	7.06E-05				5.10E-09			
ALPHA BHC	B2	6.30E+00	6.30E+00	6.30E+00	8.60E-04	4.00E-02	1	7.67E-10	4.8E-09	9.72E-11	6.1E-10	5.54E-14	3.5E-13	5.4E-09	0
ALPHA CHLORDANE	B2	3.50E-01	3.50E-01	3.50E-01	1.10E-03	4.00E-02	1	9.82E-10	3.4E-10	1.24E-10	4.3E-11	7.08E-14	2.5E-14	3.9E-10	0
BETA BHC	C	1.80E+00	1.80E+00	1.80E+00	9.60E-04	4.00E-02	1	8.57E-10	1.5E-09	1.08E-10	2.0E-10	6.18E-14	1.1E-13	1.7E-09	0
DELTA BHC	--	6.30E+00	6.30E+00	6.30E+00	8.60E-04	4.00E-02	1	7.67E-10	4.8E-09	9.72E-11	6.1E-10	5.54E-14	3.5E-13	5.4E-09	0
DIELDRIN	B2	1.60E+01	1.60E+01	1.61E+01	3.60E-04	1.00E-01	1	3.21E-10	5.1E-09	1.02E-10	1.6E-09	2.32E-14	3.7E-13	6.8E-09	0
ENDOSULFAN SULFATE	--				3.23E-04	1.00E-01	1	2.88E-10		9.12E-11		2.08E-14			
ENDRIN	D				2.20E-03	1.00E-01	1	1.96E-09		6.21E-10		1.42E-13			
ENDRIN ALDEHYDE	D				2.83E-03	1.00E-01	1	2.53E-09		7.99E-10		1.82E-13			
ENDRIN KETONE	--				3.20E-04	1.00E-01	1	2.86E-10		9.04E-11		2.06E-14			
HEPTACHLOR	B2	4.50E+00	4.50E+00	4.55E+00	1.50E-03	1.00E-01	1	1.34E-09	6.0E-09	4.24E-10	1.9E-09	9.68E-14	4.4E-13	7.9E-09	0
HEPTACHLOR EPOXIDE	B2	9.10E+00	9.10E+00	9.10E+00	2.50E-03	1.00E-01	1	2.23E-09	2.0E-08	7.06E-10	6.4E-09	1.61E-13	1.5E-12	2.7E-08	0
METHOXYCHLOR	D				2.50E-03	1.00E-01	1	2.23E-09		7.06E-10		1.61E-13			
p,p'-DDD	B2	2.40E-01	2.40E-01		3.80E-02	3.00E-02	1	3.39E-08	8.1E-09	3.22E-09	7.7E-10	2.45E-12		8.9E-09	0
p,p'-DDE	B2	3.40E-01	3.40E-01		3.90E-02	3.00E-02	1	3.48E-08	1.2E-08	3.30E-09	1.1E-09	2.51E-12		1.3E-08	0
p,p'-DDT	B2	3.40E-01	3.40E-01	3.40E-01	2.40E-01	3.00E-02	1	2.14E-07	7.3E-08	2.03E-08	6.9E-09	1.55E-11	5.2E-12	8.0E-08	1
2-METHYLNAPHTHALENE	--				7.70E-01	1.30E-01	1	6.87E-07		2.83E-07		4.96E-11			
ACENAPHTHENE	D				1.20E+00	1.30E-01	1	1.07E-06		4.41E-07		7.73E-11			
ANTHRACENE	D				1.10E+00	1.30E-01	1	9.82E-07		4.04E-07		7.08E-11			
BENZO(a)ANTHRACENE	B2	7.30E-01	7.30E-01		1.20E+00	1.30E-01	1	1.07E-06	7.8E-07	4.41E-07	3.2E-07	7.73E-11		**1.1E-06**	8
BENZO(a)PYRENE	B2	7.30E+00	7.30E+00		1.10E+00	1.30E-01	1	9.82E-07	**7.2E-06**	4.04E-07	**2.9E-06**	7.08E-11		**1.0E-05**	69
BENZO(b)FLUORANTHENE	B2	7.30E-01	7.30E-01		1.10E+00	1.30E-01	1	9.82E-07	7.2E-07	4.04E-07	2.9E-07	7.08E-11		**1.0E-06**	7
BENZO(g,h,i)PERYLENE	--			1.60E+01	4.70E-01	1.30E-01	1	4.19E-07		1.73E-07		3.03E-11	4.8E-10	4.8E-10	0
BENZO(k)FLUORANTHENE	B2	7.30E-02	7.30E-02		4.50E-01	1.30E-01	1	4.02E-07	2.9E-08	1.65E-07	1.2E-08	2.90E-11		4.1E-08	0
bis(2-ETHYLHEXYL) PHTHALATE	--	1.40E-02	1.40E-02		6.73E-02	1.00E-01	1	6.01E-08	8.4E-10	1.90E-08	2.7E-10	4.34E-12		1.1E-09	0
CHRYSENE	B2	7.30E-03	7.30E-03		1.30E+00	1.30E-01	1	1.16E-06	8.5E-09	4.77E-07	3.5E-09	8.37E-11		1.2E-08	0
DIBENZ(a,h)ANTHRACENE	B2	7.30E+00	7.30E+00		1.80E-01	1.30E-01	1	1.61E-07	**1.2E-06**	6.61E-08	4.8E-07	1.16E-11		**1.7E-06**	11
DIBENZOFURAN	D				7.70E-01		1	6.87E-07				4.96E-11			
DI-n-BUTYL PHTHALATE	D				3.84E-01	1.00E-01	1	3.43E-07		1.09E-07		2.48E-11			
DI-n-OCTYLPHTHALATE	D				1.00E-01	1.00E-01	1	8.92E-08		2.82E-08		6.44E-12			
FLUORANTHENE	D				2.10E+00	1.30E-01	1	1.87E-06		7.71E-07		1.35E-10			
FLUORENE	D				1.10E+00	1.30E-01	1	9.82E-07		4.04E-07		7.08E-11			
INDENO(1,2,3-c,d)PYRENE	B2	7.30E-01	7.30E-01		5.30E-01	1.30E-01	1	4.73E-07	3.5E-07	1.95E-07	1.4E-07	3.41E-11		4.9E-07	3
PHENANTHRENE	D				4.20E+00	1.30E-01	1	3.75E-06		1.54E-06		2.70E-10			
PYRENE	D				3.10E+00	1.30E-01	1	2.77E-06		1.14E-06		2.00E-10			
1,2,4-TRIMETHYLBENZENE	--				8.50E-02		1	7.59E-08				3.67E-07			
1,3,5-TRIMETHYLBENZENE (MESITYLEN	--				1.30E-02		1	1.16E-08				1.38E-07			
ACETONE	D				2.60E-01		1	2.32E-07				1.76E-06			
ETHYLBENZENE	D				3.80E-02		1	3.39E-08				5.99E-07			
HEXACHLOROBUTADIENE	C	7.80E-02	7.80E-02	7.80E-02	2.40E-02	1.00E-01	1	2.14E-08	1.7E-09	6.78E-09	5.3E-10	1.55E-12	1.2E-13	2.2E-09	0
ISOPROPYLBENZENE (CUMENE)	D				1.20E-02		1	1.07E-08				2.84E-07			
METHYL ETHYL KETONE (2-BUTANONE)	D				7.78E-02		1	6.94E-08				3.41E-07			
METHYLENE CHLORIDE	B2	7.50E-03	7.50E-03	1.65E-03	1.23E-01		1	1.10E-07	8.2E-10			4.19E-06	6.9E-09	7.7E-09	0

Table C-113

Hypothetical Future Residential Scenario - Potential Excess Lifetime Cancer Risk

AVMA Surface Soil

Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation		Total Risk	%
Chemical	**WOE**	**SF_o (mg/kg-day)$^{-1}$**	**SF_d (mg/kg-day)$^{-1}$**	**SF_i (mg/kg-day)$^{-1}$**	**EPC (mg/kg)**	**ABS_d**	**ABS_{gi}**	**CDI (mg/kg-day)**	**ELCR**	**CDI (mg/kg-day)**	**ELCR**	**CDI (mg/kg-day)**	**ELCR**		**Contribution**
NAPHTHALENE	C				3.60E-01	1.30E-01	1	3.21E-07		1.32E-07		7.08E-07			
O-XYLENE (1,2-DIMETHYLBENZENE)	D				9.70E-02	1.00E-01	1	8.66E-08		2.74E-08		1.35E-06			
P-CYMENE (p-ISOPROPYLTOLUENE)	D				3.60E-02		1	3.21E-08				8.53E-07			
TOLUENE	D				6.20E-02		1	5.53E-08				1.32E-06			
XYLENES, m & p	D				1.40E-01	1.00E-01	1	1.25E-07		3.95E-08		1.95E-06			
	Total Risk								**1.0E-05**		**4.2E-06**		2.3E-08		100
												Total Risk =	**1.5E-05**		

Note:

Cancer WOE Classifications:

Group A: Human carcinogen

Group B (B1, B2): Probable human carcinogen

Group C: Possible human carcinogen

Group D: Not classifiable

Group E: No evidence of carcinogenicity

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

ELCR = Excess Lifetime Cancer Risk

EPC = Exposure Point Concentration

mg/kg-day = milligrams per kilogram per day

SF_d = Dermal Slope Factor

SF_o = Oral Slope Factor

SF_i = Inhalation Slope Factor

WOE = Weight of Evidence

Table C-114
Hypothetical Future Residential Scenario - Potential Noncarcinogenic Risk
AVMA Surface Soil
Fort Richardson- Operable Unit E

Chemical	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC (mg/kg)	ABS_d	ABS_{gi}	Ingestion CDI (mg/kg-day)	Ingestion HQ	Dermal CDI (mg/kg-day)	Dermal HQ	Inhalation CDI (mg/kg-day)	Inhalation HQ	Total HI	% Contribution
ALUMINUM	1.00E+00	1.00E+00	1.40E-03	2.43E+04		1	5.06E-02	0.05			3.65E-06	0.003	0.05	9
BARIUM	7.00E-02	4.90E-03	1.43E-04	1.10E+02		0	2.30E-04	0.00			1.66E-08	0.000	0.00	1
BERYLLIUM	2.00E-03	1.40E-05	5.71E-06	5.40E-01		0	1.12E-06	0.00			8.11E-11	0.000	0.00	0
COBALT	2.00E-02	2.00E-02	5.70E-06	2.44E+01	0	1	5.08E-05	0.00			3.67E-09	0.001	0.00	1
IRON	3.00E-01	3.00E-01		4.13E+04	0	1	8.60E-02	0.29			6.21E-06		0.29	51
LEAD				3.60E+01	0	1	7.50E-05				5.41E-09			
MANGANESE	2.40E-02	9.60E-04	1.40E-05	1.67E+03	0	0	3.48E-03	0.14			2.51E-07	0.018	0.16	29
NICKEL	2.00E-02	8.00E-04		1.95E+02	0	0	4.06E-04	0.02			2.93E-08		0.02	4
SELENIUM	5.00E-03	5.00E-03		8.36E+00		1	1.74E-05	0.00			1.26E-09		0.00	1
VANADIUM	7.00E-03	1.82E-04		7.91E+01	0	0	1.65E-04	0.02			1.19E-08		0.02	4
ALPHA BHC	5.00E-04	5.00E-04		8.60E-04	4.00E-02	1	1.79E-09	0.00	2.27E-10	0.00	1.29E-13		0.00	0
ALPHA CHLORDANE	5.00E-04	5.00E-04	2.00E-04	1.10E-03	4.00E-02	1	2.29E-09	0.00	2.90E-10	0.00	1.65E-13	0.000	0.00	0
BETA BHC	2.00E-04	2.00E-04		9.60E-04	4.00E-02	1	2.00E-09	0.00	2.53E-10	0.00	1.44E-13		0.00	0
DELTA BHC	5.00E-04	5.00E-04		8.60E-04	4.00E-02	1	1.79E-09	0.00	2.27E-10	0.00	1.29E-13		0.00	0
DIELDRIN	5.00E-05	5.00E-05		3.60E-04	1.00E-01	1	7.50E-10	0.00	2.37E-10	0.00	5.41E-14		0.00	0
ENDOSULFAN SULFATE	6.00E-03	6.00E-03		3.23E-04	1.00E-01	1	6.72E-10	0.00	2.13E-10	0.00	4.85E-14		0.00	0
ENDRIN	3.00E-04	3.00E-04		2.20E-03	1.00E-01	1	4.58E-09	0.00	1.45E-09	0.00	3.31E-13		0.00	0
ENDRIN ALDEHYDE	3.00E-04	3.00E-04		2.83E-03	1.00E-01	1	5.89E-09	0.00	1.86E-09	0.00	4.25E-13		0.00	0
ENDRIN KETONE	3.00E-04	3.00E-04		3.20E-04	1.00E-01	1	6.66E-10	0.00	2.11E-10	0.00	4.81E-14		0.00	0
HEPTACHLOR	5.00E-04	5.00E-04		1.50E-03	1.00E-01	1	3.13E-09	0.00	9.90E-10	0.00	2.26E-13		0.00	0
HEPTACHLOR EPOXIDE	1.30E-05	1.30E-05		2.50E-03	1.00E-01	1	5.21E-09	0.00	1.65E-09	0.00	3.76E-13		0.00	0
METHOXYCHLOR	5.00E-03	5.00E-03		2.50E-03	1.00E-01	1	5.21E-09	0.00	1.65E-09	0.00	3.76E-13		0.00	0
p,p'-DDD				3.80E-02	3.00E-02	1	7.91E-08		7.51E-09		5.71E-12			
p,p'-DDE				3.90E-02	3.00E-02	1	8.12E-08		7.71E-09		5.86E-12			
p,p'-DDT	5.00E-04	5.00E-04		2.40E-01	3.00E-02	1	5.00E-07	0.00	4.74E-08	0.00	3.61E-11		0.00	0
2-METHYLNAPHTHALENE	9.00E-03	9.00E-03		7.70E-01	1.30E-01	1	1.60E-06	0.00	6.60E-07	0.00	1.16E-10		0.00	0
ACENAPHTHENE	6.00E-02	6.00E-02		1.20E+00	1.30E-01	1	2.50E-06	0.00	1.03E-06	0.00	1.80E-10		0.00	0
ANTHRACENE	3.00E-01	3.00E-01		1.10E+00	1.30E-01	1	2.29E-06	0.00	9.42E-07	0.00	1.65E-10		0.00	0
BENZO(a)ANTHRACENE				1.20E+00	1.30E-01	1	2.50E-06		1.03E-06		1.80E-10			
BENZO(a)PYRENE				1.10E+00	1.30E-01	1	2.29E-06		9.42E-07		1.65E-10			
BENZO(b)FLUORANTHENE				1.10E+00	1.30E-01	1	2.29E-06		9.42E-07		1.65E-10			
BENZO(g,h,i)PERYLENE				4.70E-01	1.30E-01	1	9.79E-07		4.03E-07		7.06E-11			
BENZO(k)FLUORANTHENE				4.50E-01	1.30E-01	1	9.37E-07		3.86E-07		6.76E-11			
bis(2-ETHYLHEXYL) PHTHALATE	2.00E-02	2.00E-02		6.73E-02	1.00E-01	1	1.40E-07	0.00	4.44E-08	0.00	1.01E-11		0.00	0
CHRYSENE				1.30E+00	1.30E-01	1	2.71E-06		1.11E-06		1.95E-10			
DIBENZ(a,h)ANTHRACENE				1.80E-01	1.30E-01	1	3.75E-07		1.54E-07		2.70E-11			
DIBENZOFURAN	4.00E-03	4.00E-03		7.70E-01		1	1.60E-06	0.00			1.16E-10		0.00	0
DI-n-BUTYL PHTHALATE	1.00E-01	1.00E-01		3.84E-01	1.00E-01	1	8.01E-07	0.00	2.53E-07	0.00	5.78E-11		0.00	0
DI-n-OCTYLPHTHALATE	4.00E-02	4.00E-02		1.00E-01	1.00E-01	1	2.08E-07	0.00	6.59E-08	0.00	1.50E-11		0.00	0
FLUORANTHENE	4.00E-02	4.00E-02		2.10E+00	1.30E-01	1	4.37E-06	0.00	1.80E-06	0.00	3.16E-10		0.00	0
FLUORENE	4.00E-02	4.00E-02		1.10E+00	1.30E-01	1	2.29E-06	0.00	9.42E-07	0.00	1.65E-10		0.00	0
INDENO(1,2,3-c,d)PYRENE				5.30E-01	1.30E-01	1	1.10E-06		4.54E-07		7.96E-11			
PHENANTHRENE	3.00E-01	3.00E-01		4.20E+00	1.30E-01	1	8.75E-06	0.00	3.60E-06	0.00	6.31E-10		0.00	0
PYRENE	3.00E-02	3.00E-02		3.10E+00	1.30E-01	1	6.45E-06	0.00	2.66E-06	0.00	4.66E-10		0.00	0
1,2,4-TRIMETHYLBENZENE	5.00E-02	5.00E-02	1.70E-03	8.50E-02		1	1.77E-07	0.00			8.57E-07	0.001	0.00	0
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	5.00E-02	5.00E-02	1.70E-03	1.30E-02		1	2.71E-08	0.00			3.21E-07	0.000	0.00	0
ACETONE	1.00E-01	1.00E-01	1.00E-01	2.60E-01		1	5.41E-07	0.00			4.11E-06	0.000	0.00	0
ETHYLBENZENE	1.00E-01	1.00E-01	2.90E-01	3.80E-02		1	7.91E-08	0.00			1.40E-06	0.000	0.00	0
HEXACHLOROBUTADIENE	3.00E-04	3.00E-04	3.00E-04	2.40E-02	1.00E-01	1	5.00E-08	0.00	1.58E-08	0.00	3.61E-12	0.000	0.00	0
ISOPROPYLBENZENE (CUMENE)	1.00E-01	1.00E-01	1.10E-01	1.20E-02		1	2.50E-08	0.00			6.64E-07	0.000	0.00	0
METHYL ETHYL KETONE (2-BUTANONE)	6.00E-01	6.00E-01	2.86E-01	7.78E-02		1	1.62E-07	0.00			7.95E-07	0.000	0.00	0
METHYLENE CHLORIDE	6.00E-02	6.00E-02	8.57E-01	1.23E-01		1	2.56E-07	0.00			9.79E-06	0.000	0.00	0
NAPHTHALENE	2.00E-02	2.00E-02	8.57E-04	3.60E-01	1.30E-01	1	7.50E-07	0.00	3.08E-07	0.00	1.65E-06	0.002	0.00	0
O-XYLENE (1,2-DIMETHYLBENZENE)	2.00E-01	2.00E-01	2.90E-02	9.70E-02	1.00E-01	1	2.02E-07	0.00	6.39E-08	0.00	3.15E-06	0.000	0.00	0
P-CYMENE (p-ISOPROPYLTOLUENE)	1.00E-01	1.00E-01	1.10E-01	3.60E-02		1	7.50E-08	0.00			1.99E-06	0.000	0.00	0

AVMA Surface Soil
Fort Richardson- Operable Unit E

Chemical	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC (mg/kg)	ABS_d	ABS_{gi}	Ingestion CDI (mg/kg-day)	Ingestion HQ	Dermal CDI (mg/kg-day)	Dermal HQ	Inhalation CDI (mg/kg-day)	Inhalation HQ	Total HI	% Contribution
TOLUENE	2.00E-01	2.00E-01	1.10E-01	6.20E-02		1	1.29E-07	0.00			3.09E-06	0.000	0.00	0
XYLENES, m & p	2.00E-01	2.00E-01	2.90E-02	1.40E-01	1.00E-01	1	2.92E-07	0.00	9.23E-08	0.00	4.55E-06	0.000	0.00	0
								0.54		0.0006		0.024		100
											Total HI =	0.56		

Note:
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
EPC = Exposure Point Concentration
HI = Hazard Index
HQ = Hazard Quotient;
mg/kg-day = milligrams per kilogram per day
RfC = Reference Concentration
RfD_d = Dermal Reference Dose;
RfD_o = Oral Reference Dose
RfD_i = Inhalation Reference Dose

Table C-115
Onsite Excavation Worker Scenario - Potential Excess Lifetime Cancer Risk
AVMA Subsurface Soil
Fort Richardson - Operable Unit E

Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC (mg/kg)	ABS_d	ABS_{gi}	Ingestion CDI (mg/kg-day)	Ingestion ELCR	Dermal CDI (mg/kg-day)	Dermal ELCR	Inhalation CDI (mg/kg-day)	Inhalation ELCR	Total ELCR	% Contribution
ALUMINUM	--				2.12E+04		1.00E+00	5.15E-04				2.40E-08			
IRON	--				3.67E+04	0	1.00E+00	8.93E-04				4.17E-08			
LEAD	--				1.96E+01	0	1.00E+00	4.78E-07				2.23E-11			
MANGANESE	D				8.63E+02	0	4.00E-02	2.10E-05				9.80E-10			
NICKEL	D				9.50E+01	0	4.00E-02	2.31E-06				1.08E-10			
SELENIUM	D				5.81E+00		1.00E+00	1.42E-07				6.60E-12			
VANADIUM	--				7.11E+01	0	2.60E-02	1.73E-06				8.07E-11			
ALPHA BHC	B2	6.30E+00	6.30E+00	6.30E+00	9.09E-04	4.00E-02	1.00E+00	2.21E-11	1.4E-10	1.77E-12	1.1E-11	1.03E-15	6.5E-15	1.5E-10	0
ALPHA CHLORDANE	B2	3.50E-01	3.50E-01	3.50E-01	2.88E-03	4.00E-02	1.00E+00	7.02E-11	2.5E-11	5.62E-12	2.0E-12	3.27E-15	1.1E-15	2.7E-11	0
BETA BHC	C	1.80E+00	1.80E+00	1.80E+00	1.45E-03	4.00E-02	1.00E+00	3.54E-11	6.4E-11	2.83E-12	5.1E-12	1.65E-15	3.0E-15	6.9E-11	0
DIELDRIN	B2	1.60E+01	1.60E+01	1.61E+01	1.28E-03	1.00E-01	1.00E+00	3.12E-11	5.0E-10	6.25E-12	1.0E-10	1.46E-15	2.3E-14	6.0E-10	0
ENDOSULFAN SULFATE	--				1.43E-03	1.00E-01	1.00E+00	3.48E-11		6.96E-12		1.62E-15			
ENDRIN	D				1.22E-03	1.00E-01	1.00E+00	2.98E-11		5.97E-12		1.39E-15			
ENDRIN ALDEHYDE	D				1.39E-03	1.00E-01	1.00E+00	3.39E-11		6.79E-12		1.58E-15			
ENDRIN KETONE	--				8.94E-04	1.00E-01	1.00E+00	2.18E-11		4.35E-12		1.01E-15			
GAMMA CHLORDANE	B2	3.50E-01	3.50E-01	3.50E-01	5.70E-03	4.00E-02	1.00E+00	1.39E-10	4.9E-11	1.11E-11	3.9E-12	6.47E-15	2.3E-15	5.2E-11	0
HEPTACHLOR	B2	4.50E+00	4.50E+00	4.55E+00	1.17E-03	1.00E-01	1.00E+00	2.85E-11	1.3E-10	5.71E-12	2.6E-11	1.33E-15	6.1E-15	1.5E-10	0
HEPTACHLOR EPOXIDE	B2	9.10E+00	9.10E+00	9.10E+00	1.37E-03	1.00E-01	1.00E+00	3.35E-11	3.0E-10	6.69E-12	6.1E-11	1.56E-15	1.4E-14	3.7E-10	0
METHOXYCHLOR	D				4.45E-03	1.00E-01	1.00E+00	1.08E-10		2.17E-11		5.05E-15			
p,p'-DDD	B2	2.40E-01	2.40E-01		1.16E-02	3.00E-02	1.00E+00	2.82E-10	6.8E-11	1.69E-11	4.1E-12	1.32E-14		7.2E-11	0
p,p'-DDE	B2	3.40E-01	3.40E-01		1.26E-02	3.00E-02	1.00E+00	3.06E-10	1.0E-10	1.84E-11	6.2E-12	1.43E-14		1.1E-10	0
p,p'-DDT	B2	3.40E-01	3.40E-01	3.40E-01	7.34E-02	3.00E-02	1.00E+00	1.79E-09	6.1E-10	1.07E-10	3.6E-11	8.34E-14	2.8E-14	6.4E-10	0
2-METHYLNAPHTHALENE	--				4.17E-01	1.30E-01	1.00E+00	1.02E-08		2.64E-09		4.74E-13			
ACENAPHTHENE	D				3.50E+00	1.30E-01	1.00E+00	8.52E-08		2.22E-08		3.97E-12			
ANTHRACENE	D				5.40E+00	1.30E-01	1.00E+00	1.32E-07		3.42E-08		6.13E-12			
BENZO(a)ANTHRACENE	B2	7.30E-01	7.30E-01		4.90E+01	1.30E-01	1.00E+00	1.19E-06	8.7E-07	3.10E-07	2.3E-07	5.56E-11		**1.1E-06**	36
BENZO(a)PYRENE	B2	7.30E+00	7.30E+00		5.10E+00	1.30E-01	1.00E+00	1.24E-07	9.1E-07	3.23E-08	2.4E-07	5.79E-12		**1.1E-06**	38
BENZO(b)FLUORANTHENE	B2	7.30E-01	7.30E-01		2.00E+00	1.30E-01	1.00E+00	4.86E-08	3.6E-08	1.26E-08	9.2E-09	2.27E-12		4.5E-08	1
BENZO(g,h,i)PERYLENE	--			1.60E+01	3.50E+00	1.30E-01	1.00E+00	8.52E-08		2.22E-08		3.97E-12	6.4E-11	6.4E-11	0
BENZO(k)FLUORANTHENE	B2	7.30E-01	7.30E-01		2.20E+00	1.30E-01	1.00E+00	5.36E-08	3.9E-08	1.39E-08	1.0E-08	2.50E-12		4.9E-08	2
bis(2-ETHYLHEXYL) PHTHALATE	--	1.40E-01	1.40E-01		5.21E-02	1.00E-01	1.00E+00	1.27E-09	1.8E-10	2.54E-10	3.6E-11	5.92E-14		2.1E-10	0
CHRYSENE	B2	7.30E-01	7.30E-01		2.40E+01	1.30E-01	1.00E+00	5.85E-07	4.3E-07	1.52E-07	1.1E-07	2.73E-11		5.4E-07	18
DIBENZOFURAN	D				1.21E+00		1.00E+00	2.95E-08				1.38E-12			
DI-n-BUTYL PHTHALATE	D				3.97E-01	1.00E-01	1.00E+00	9.68E-09		1.94E-09		4.51E-13			
FLUORANTHENE	D				5.10E+00	1.30E-01	1.00E+00	1.24E-07		3.23E-08		5.79E-12			
FLUORENE	D				2.35E+00	1.30E-01	1.00E+00	5.71E-08		1.49E-08		2.66E-12			
INDENO(1,2,3-c,d)PYRENE	B2	7.30E-01	7.30E-01		4.10E+00	1.30E-01	1.00E+00	9.99E-08	7.3E-08	2.60E-08	1.9E-08	4.66E-12		9.2E-08	3
PHENANTHRENE	D				1.10E+01	1.30E-01	1.00E+00	2.68E-07		6.97E-08		1.25E-11			
PYRENE	D				3.03E+00	1.30E-01	1.00E+00	7.37E-08		1.92E-08		3.43E-12			
1,2,4-TRIMETHYLBENZENE	--				5.04E-02		1.00E+00	1.23E-09				3.78E-09			
1,3,5-TRIMETHYLBENZENE (MESITYLENI	--				6.39E-03		1.00E+00	1.56E-10				1.17E-09			
ACETONE	D				5.92E-01		1.00E+00	1.44E-08				6.96E-08			
BENZENE	A	5.50E-01	5.50E-01	2.90E-01	1.02E-02		1.00E+00	2.47E-10	1.4E-10			5.48E-09	1.6E-09	1.7E-09	0
ETHYLBENZENE	D				1.80E-02		1.00E+00	4.39E-10				4.93E-09			
HEXACHLOROBUTADIENE	C	7.80E-01	7.80E-01	7.80E-01	1.33E-02	1.00E-01	1.00E+00	3.24E-10	2.5E-10	6.49E-11	5.1E-11	1.51E-14	1.2E-14	3.0E-10	0
ISOPROPYLBENZENE (CUMENE)	D				7.94E-03		1.00E+00	1.93E-10				3.27E-09			
METHYL ETHYL KETONE (2-BUTANONE)	D				1.35E-01	1.00E-01	1.00E+00	3.29E-09		6.58E-10		3.27E-08			
METHYLENE CHLORIDE	B2	7.50E-01	7.50E-01	1.65E-01	1.02E-01		1.00E+00	2.49E-09	1.9E-09			6.05E-08	9.9E-09	1.2E-08	0
NAPHTHALENE	C				2.88E-01	1.30E-01	1.00E+00	7.00E-09		1.82E-09		9.81E-09			
O-XYLENE (1,2-DIMETHYLBENZENE)	D				8.65E-02	1.00E-01	1.00E+00	2.11E-09		4.22E-10		2.09E-08			
P-CYMENE (p-ISOPROPYLTOLUENE)	D				3.15E-01		1.00E+00	7.68E-09				1.30E-07			
TETRACHLOROETHYLENE (PCE)	C-B2	5.20E-01	5.20E-01	1.00E-01	5.30E-01		1.00E+00	1.29E-08	6.7E-09			3.07E-07	3.1E-08	3.7E-08	1
TOLUENE	D				3.49E-02		1.00E+00	8.50E-10				1.29E-08			

Table C-115
Onsite Excavation Worker Scenario - Potential Excess Lifetime Cancer Risk
AVMA Subsurface Soil
Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation			
Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC (mg/kg)	ABS_d	ABS_{gi}	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	Total ELCR	% Contribution
TRICHLOROETHYLENE (TCE)	B2	1.10E-01	1.10E-01	6.00E-01	8.50E-03		1.00E+00	2.07E-10	2.3E-11			3.85E-09	2.3E-09	2.3E-09	0
XYLENES, m & p	D				8.70E-02	1.00E-01	1.00E+00	2.12E-09		4.24E-10		2.10E-08			
Total Risk									**2.4E-06**		6.1E-07		4.5E-08		100
												Total Risk =	**3.0E-06**		

Note:
Cancer WOE Classifications:
Group A: Human carcinogen
Group B (B1, B2): Probable human carcinogen
Group C: Possible human carcinogen
Group D: Not classifiable
Group E: No evidence of carcinogenicity
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
ELCR = Excess Lifetime Cancer Risk
EPC = Exposure Point Concentration
mg/kg-day = milligrams per kilogram per day
SF_d = Dermal Slope Factor
SF_o = Oral Slope Factor
SF_i = Inhalation Slope Factor
WOE = Weight of Evidence

Table C-116
Onsite Excavation Worker Scenario - Potential Noncarcinogenic Risk
AVMA Subsurface Soil
Fort Richardson - Operable Unit E

Chemical	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC (mg/kg)	ABS_d	ABS_{gi}	Ingestion CDI (mg/kg-day)	Ingestion HQ	Dermal CDI (mg/kg-day)	Dermal HQ	Inhalation CDI (mg/kg-day)	Inhalation HQ	Total HI	% Contribution
ALUMINUM	1.00E+00	1.00E+00	1.40E-01	2.12E+04		1.00E+00	5.46E-03	0.01			2.55E-07	0.00	0.01	14
IRON	3.00E-01	3.00E-01		3.67E+04	0	1.00E+00	9.48E-03	0.03			4.42E-07		0.03	83
LEAD				1.96E+01	0	1.00E+00	5.07E-06				2.36E-10			
MANGANESE	2.40E-01	9.60E-03	1.40E-01	8.63E+02	0	4.00E-02	2.23E-04	0.00			1.04E-08	0.00	0.00	2
NICKEL	2.00E-01	8.00E-03		9.50E+01	0	4.00E-02	2.45E-05	0.00			1.14E-09		0.00	0
SELENIUM	5.00E-01	5.00E-01		5.81E+00		1.00E+00	1.50E-06	0.00			7.00E-11		0.00	0
VANADIUM	7.00E-01	1.82E-02		7.11E+01	0	2.60E-02	1.84E-05	0.00			8.56E-10		0.00	0
ALPHA BHC	5.00E-01	5.00E-01		9.09E-04	4.00E-02	1.00E+00	2.35E-10	0.00	1.88E-11	0.0000	1.09E-14		0.00	0
ALPHA CHLORDANE	5.00E-01	5.00E-01	2.00E-01	2.88E-03	4.00E-02	1.00E+00	7.45E-10	0.00	5.96E-11	0.0000	3.47E-14	0.00	0.00	0
BETA BHC	2.00E-01	2.00E-01		1.45E-03	4.00E-02	1.00E+00	3.75E-10	0.00	3.00E-11	0.0000	1.75E-14		0.00	0
DIELDRIN	5.00E-01	5.00E-01		1.28E-03	1.00E-01	1.00E+00	3.31E-10	0.00	6.63E-11	0.0000	1.54E-14		0.00	0
ENDOSULFAN SULFATE	6.00E-01	6.00E-01		1.43E-03	1.00E-01	1.00E+00	3.69E-10	0.00	7.38E-11	0.0000	1.72E-14		0.00	0
ENDRIN	3.00E-01	3.00E-01		1.22E-03	1.00E-01	1.00E+00	3.16E-10	0.00	6.33E-11	0.0000	1.48E-14		0.00	0
ENDRIN ALDEHYDE	3.00E-01	3.00E-01		1.39E-03	1.00E-01	1.00E+00	3.60E-10	0.00	7.20E-11	0.0000	1.68E-14		0.00	0
ENDRIN KETONE	3.00E-01	3.00E-01		8.94E-04	1.00E-01	1.00E+00	2.31E-10	0.00	4.62E-11	0.0000	1.08E-14		0.00	0
GAMMA CHLORDANE	5.00E-01	5.00E-01	2.00E-01	5.70E-03	4.00E-02	1.00E+00	1.47E-09	0.00	1.18E-10	0.0000	6.86E-14	0.00	0.00	0
HEPTACHLOR	5.00E-01	5.00E-01		1.17E-03	1.00E-01	1.00E+00	3.03E-10	0.00	6.05E-11	0.0000	1.41E-14		0.00	0
HEPTACHLOR EPOXIDE	1.30E-01	1.30E-01		1.37E-03	1.00E-01	1.00E+00	3.55E-10	0.00	7.10E-11	0.0000	1.65E-14		0.00	0
METHOXYCHLOR	5.00E-01	5.00E-01		4.45E-03	1.00E-01	1.00E+00	1.15E-09	0.00	2.30E-10	0.0000	5.35E-14		0.00	0
p,p'-DDD				1.16E-02	3.00E-02	1.00E+00	2.99E-09		1.80E-10		1.39E-13			
p,p'-DDE				1.26E-02	3.00E-02	1.00E+00	3.25E-09		1.95E-10		1.51E-13			
p,p'-DDT	5.00E-01	5.00E-01		7.34E-02	3.00E-02	1.00E+00	1.90E-08	0.00	1.14E-09	0.0000	8.84E-13		0.00	0
2-METHYLNAPHTHALENE	9.00E-01	9.00E-01		4.17E-01	1.30E-01	1.00E+00	1.08E-07	0.00	2.80E-08	0.0000	5.02E-12		0.00	0
ACENAPHTHENE	6.00E-01	6.00E-01		3.50E+00	1.30E-01	1.00E+00	9.04E-07	0.00	2.35E-07	0.0000	4.21E-11		0.00	0
ANTHRACENE	3.00E-01	3.00E-01		5.40E+00	1.30E-01	1.00E+00	1.39E-06	0.00	3.63E-07	0.0000	6.50E-11		0.00	0
BENZO(a)ANTHRACENE				4.90E+01	1.30E-01	1.00E+00	1.27E-05		3.29E-06		5.90E-10			
BENZO(a)PYRENE				5.10E+00	1.30E-01	1.00E+00	1.32E-06		3.43E-07		6.14E-11			
BENZO(b)FLUORANTHENE				2.00E+00	1.30E-01	1.00E+00	5.16E-07		1.34E-07		2.40E-11			
BENZO(g,h,i)PERYLENE				3.50E+00	1.30E-01	1.00E+00	9.04E-07		2.35E-07		4.21E-11			
BENZO(k)FLUORANTHENE				2.20E+00	1.30E-01	1.00E+00	5.68E-07		1.48E-07		2.65E-11			
bis(2-ETHYLHEXYL) PHTHALATE	2.00E-01	2.00E-01		5.21E-02	1.00E-01	1.00E+00	1.35E-08	0.00	2.69E-09	0.0000	6.28E-13		0.00	0
CHRYSENE				2.40E+01	1.30E-01	1.00E+00	6.20E-06		1.61E-06		2.89E-10			
DIBENZOFURAN	4.00E-01	4.00E-01		1.21E+00		1.00E+00	3.13E-07	0.00			1.46E-11		0.00	0
DI-n-BUTYL PHTHALATE	1.00E-01	1.00E-01		3.97E-01	1.00E-01	1.00E+00	1.03E-07	0.00	2.05E-08	0.0000	4.79E-12		0.00	0
FLUORANTHENE	4.00E-01	4.00E-01		5.10E+00	1.30E-01	1.00E+00	1.32E-06	0.00	3.43E-07	0.0000	6.14E-11		0.00	0
FLUORENE	4.00E-01	4.00E-01		2.35E+00	1.30E-01	1.00E+00	6.06E-07	0.00	1.58E-07	0.0000	2.83E-11		0.00	0
INDENO(1,2,3-c,d)PYRENE				4.10E+00	1.30E-01	1.00E+00	1.06E-06		2.75E-07		4.94E-11			
PHENANTHRENE	3.00E-01	3.00E-01		1.10E+01	1.30E-01	1.00E+00	2.84E-06	0.00	7.39E-07	0.0000	1.32E-10		0.00	0
PYRENE	3.00E-01	3.00E-01		3.03E+00	1.30E-01	1.00E+00	7.81E-07	0.00	2.03E-07	0.0000	3.64E-11		0.00	0
1,2,4-TRIMETHYLBENZENE	5.00E-01	5.00E-01	1.70E-01	5.04E-02		1.00E+00	1.30E-08	0.00			4.01E-08	0.00	0.00	0
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	5.00E-01	5.00E-01	1.70E-01	6.39E-03		1.00E+00	1.65E-09	0.00			1.24E-08	0.00	0.00	0
ACETONE	1.00E-01	1.00E-01	1.00E-01	5.92E-01		1.00E+00	1.53E-07	0.00			7.38E-07	0.00	0.00	0
BENZENE	4.00E-01	4.00E-01	8.60E-01	1.02E-02		1.00E+00	2.62E-09	0.00			5.81E-08	0.00	0.00	0
ETHYLBENZENE	1.00E-01	1.00E-01	2.90E-01	1.80E-02		1.00E+00	4.65E-09	0.00			5.23E-08	0.00	0.00	0
HEXACHLOROBUTADIENE	3.00E-01	3.00E-01	3.00E-01	1.33E-02	1.00E-01	1.00E+00	3.44E-09	0.00	6.88E-10	0.0000	1.60E-13	0.00	0.00	0
ISOPROPYLBENZENE (CUMENE)	1.00E-01	1.00E-01	1.10E-01	7.94E-03		1.00E+00	2.05E-09	0.00			3.46E-08	0.00	0.00	0
METHYL ETHYL KETONE (2-BUTANONE)	2.00E-01	2.00E-01	2.90E-01	1.35E-01	1.00E-01	1.00E+00	3.49E-08	0.00	6.98E-09	0.0000	3.47E-07	0.00	0.00	0
METHYLENE CHLORIDE	6.00E-01	6.00E-01	8.57E-01	1.02E-01		1.00E+00	2.64E-08	0.00			6.41E-07	0.00	0.00	0
NAPHTHALENE	2.00E-01	2.00E-01	8.57E-01	2.88E-01	1.30E-01	1.00E+00	7.43E-08	0.00	1.93E-08	0.0000	1.04E-07	0.00	0.00	0
O-XYLENE (1,2-DIMETHYLBENZENE)	2.00E-01	2.00E-01	2.90E-01	8.65E-02	1.00E-01	1.00E+00	2.24E-08	0.00	4.47E-09	0.0000	2.22E-07	0.00	0.00	0
P-CYMENE (p-ISOPROPYLTOLUENE)	1.00E-01	1.00E-01	1.10E-01	3.15E-01		1.00E+00	8.14E-08	0.00			1.38E-06	0.00	0.00	0
TETRACHLOROETHYLENE (PCE)	1.00E-01	1.00E-01	1.70E-01	5.30E-01		1.00E+00	1.37E-07	0.00			3.25E-06	0.00	0.00	0
TOLUENE	2.00E-01	2.00E-01	1.10E-01	3.49E-02		1.00E+00	9.01E-09	0.00			1.37E-07	0.00	0.00	0

Table C-116
Onsite Excavation Worker Scenario - Potential Noncarcinogenic Risk
AVMA Subsurface Soil
Fort Richardson - Operable Unit E

Chemical	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC (mg/kg)	ABS_d	ABS_{gi}	Ingestion CDI (mg/kg-day)	Ingestion HQ	Dermal CDI (mg/kg-day)	Dermal HQ	Inhalation CDI (mg/kg-day)	Inhalation HQ	Total HI	% Contribution
TRICHLOROETHYLENE (TCE)	6.00E-01	6.00E-01	6.00E-01	8.50E-03		1.00E+00	2.20E-09	0.00			4.08E-08	0.00	0.00	0
XYLENES, m & p	2.00E-01	2.00E-01	2.90E-01	8.70E-02	1.00E-01	1.00E+00	2.25E-08	0.00	4.49E-09	0.0000	2.23E-07	0.00	0.00	0
								0.038		0.0000064		0.000047		100
											Total HI =	0.038		

Note:
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
EPC = Exposure Point Concentration
HI = Hazard Index
HQ = Hazard Quotient;
mg/kg-day = milligrams per kilogram per day
RfC = Reference Concentration
RfD_d = Dermal Reference Dose;
RfD_o = Oral Reference Dose
RfD_i = Inhalation Reference Dose

Table C-117
Hypothetical Future Residential Scenario - Potential Excess Lifetime Cancer Risk
AVMA Groundwater - All Groundwater
Fort Richardson - Operable Unit E

									Ingestion		Dermal		Inhalation		Total ELCR	%
Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC	ABSgi	Kp	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR		Contribution
ALUMINUM	--				6.10E+02	1	1.00E-03	9.07E+00		1.84E-02		4.54E+01			
ANTIMONY	--				1.17E-02	0	1.00E-03	1.73E-04		3.52E-07		8.67E-04			
ARSENIC	A	1.50E+00	1.50E+00	1.51E+01	2.13E-02	1	1.00E-03	3.16E-04	**4.7E-04**	6.41E-07	9.6E-07	1.58E-03		**4.8E-04**	85
BARIUM	D				1.29E+00	0	1.00E-03	1.92E-02		3.89E-05		9.57E-02			
CHROMIUM	A			2.94E+02	1.21E+00	0	2.00E-03	1.80E-02		7.28E-05		8.97E-02			
COPPER	D				1.20E+00	1	1.00E-03	1.79E-02		3.62E-05		8.92E-02			
IRON	--				1.20E+03	1	1.00E-03	1.79E+01		3.62E-02		8.92E+01			
MANGANESE	D				2.20E+01	0	1.00E-03	3.27E-01		6.64E-04		1.64E+00			
NICKEL	D				7.38E-01	0	2.00E-04	1.10E-02		4.46E-06		5.49E-02			
SELENIUM	D				3.91E-02	1	1.00E-03	5.81E-04		1.18E-06		2.90E-03			
ZINC	D				2.70E+00	1	6.00E-04	4.02E-02		4.89E-05		2.01E-01			
BETA BHC	C	1.80E+00	1.80E+00	1.80E+00	8.31E-06	1	2.79E-02	1.24E-07	2.2E-07	7.00E-09	1.3E-08	6.18E-07		2.4E-07	0
ENDRIN ALDEHYDE	D				7.14E-06	1	1.20E-02	1.06E-07		2.58E-09		5.31E-07			
HEPTACHLOR	B2	4.50E+00	4.50E+00	4.55E+00	7.72E-06	1	8.60E-03	1.15E-07	5.2E-07	2.00E-09	9.0E-09	5.74E-07		5.3E-07	0
2-METHYLNAPHTHALENE	--				1.31E-05	1	1.42E-02	1.95E-07		5.60E-09		9.72E-07			
ACENAPHTHENE	D				5.45E-06	1	1.33E-01	8.10E-08		2.19E-08		4.05E-07			
BENZO(a)PYRENE	B2	7.30E+00	7.30E+00		1.53E-05	1	7.00E-01	2.28E-07	**1.7E-06**	3.24E-07	**2.4E-06**	1.14E-06		**4.0E-06**	1
BENZO(b)FLUORANTHENE	B2	7.30E-01	7.30E-01		1.31E-05	1	7.00E-01	1.94E-07	1.4E-07	2.76E-07	2.0E-07	9.71E-07		3.4E-07	0
BENZO(g,h,i)PERYLENE	--			1.60E+01	2.17E-05	1	2.00E+00	3.23E-07		1.31E-06		1.62E-06			
BENZO(k)FLUORANTHENE	B2	7.30E-02	7.30E-02		2.10E-05	1	1.20E+00	3.12E-07	2.3E-08	7.60E-07	5.5E-08	1.56E-06		7.8E-08	0
BENZYL ALCOHOL	--				5.67E-04	1	2.52E-03	8.44E-06		4.31E-08		4.22E-05			
bis(2-ETHYLHEXYL) PHTHALATE	--	1.40E-02	1.40E-02		9.25E-04	1	2.50E-02	1.38E-05	1.9E-07	6.98E-07	9.8E-09	6.88E-05		2.0E-07	0
DIBENZ(a,h)ANTHRACENE	B2	7.30E+00	7.30E+00		3.53E-05	1	1.50E+00	5.25E-07	**3.8E-06**	1.60E-06	**1.2E-05**	2.63E-06		**1.6E-05**	3
DIMETHYL PHTHALATE	D				2.53E-04	1	1.70E-03	3.77E-06		1.30E-08		1.88E-05			
DI-n-BUTYL PHTHALATE	D				4.30E-03	1	2.40E-02	6.39E-05		3.11E-06		3.19E-04			
DI-n-OCTYLPHTHALATE	D				3.30E-04	1	4.45E+00	4.91E-06		4.43E-05		2.46E-05			
FLUORENE	D				5.67E-06	1	1.70E-01	8.44E-08		2.91E-08		4.22E-07			
INDENO(1,2,3-c,d)PYRENE	B2	7.30E-01	7.30E-01		4.59E-05	1	1.00E+00	6.82E-07	5.0E-07	1.38E-06	**1.0E-06**	3.41E-06		**1.5E-06**	0
PHENANTHRENE	D				7.30E-06	1	1.40E-01	1.09E-07		3.09E-08		5.43E-07			
PHENOL	--				4.74E-04	1	4.30E-03	7.05E-06		6.15E-08		3.52E-05			
1,1,1-TRICHLOROETHANE	D				1.46E-04	1	1.30E-02	2.17E-06		5.73E-08		1.09E-05			
1,2-DICHLOROBENZENE	--				1.07E-04	1	4.10E-02	1.60E-06		1.33E-07		7.99E-06			
1,3-DICHLOROBENZENE	D				7.82E-05	1	5.80E-02	1.16E-06		1.37E-07		5.82E-06			
1,4-DICHLOROBENZENE	--	2.40E-02	2.40E-02	2.20E-02	8.42E-05	1	4.20E-02	1.25E-06	3.0E-08	1.07E-07	2.6E-09	6.26E-06	1.4E-07	1.7E-07	0
ACETONE	D				4.77E-03	1	5.69E-04	7.10E-05		8.19E-08		3.55E-04			
BENZENE	A	5.50E-02	5.50E-02	2.90E-02	7.10E-05	1	1.50E-02	1.06E-06	5.8E-08	3.21E-08	1.8E-09	5.28E-06	1.5E-07	2.1E-07	0
BROMODICHLOROMETHANE	B2	6.20E-02	6.20E-02	6.20E-02	7.58E-05	1	4.60E-03	1.13E-06	7.0E-08	1.05E-08	6.5E-10	5.64E-06	3.5E-07	4.2E-07	0
CARBON DISULFIDE	--				6.87E-05	1	1.70E-02	1.02E-06		3.52E-08		5.11E-06			
CARBON TETRACHLORIDE	B2	1.30E-01	1.30E-01	5.25E-02	4.36E-04	1	1.60E-02	6.49E-06	8.4E-07	2.11E-07	2.7E-08	3.25E-05	**1.7E-06**	**2.6E-06**	0
CHLOROFORM	B2				1.46E-03	1	6.80E-03	2.17E-05		2.99E-07		1.08E-04			
CHLOROMETHANE	--	1.30E-02	1.30E-02	6.30E-03	4.42E-04	1	3.30E-03	6.57E-06	8.5E-08	4.40E-08	5.7E-10	3.29E-05	2.1E-07	2.9E-07	0
METHYL ISOBUTYL KETONE	--				9.34E-05	1	3.97E-03	1.39E-06		1.12E-08		6.95E-06			
METHYLENE CHLORIDE	B2	7.50E-03	7.50E-03	1.65E-03	1.50E-03	1	3.50E-03	2.23E-05	1.7E-07	1.58E-07	1.2E-09	1.11E-04	1.8E-07	3.5E-07	0
NAPHTHALENE	C				3.97E-05	1	4.70E-02	5.91E-07		5.63E-08		2.95E-06			
P-CYMENE (p-ISOPROPYLTOLUENE)	D				6.27E-05	1	1.40E-01	9.32E-07		2.65E-07		4.66E-06			
tert-BUTYL METHYL ETHER	--	3.30E-03	3.30E-03	3.50E-04	5.04E-05	1	2.57E-03	7.49E-07	2.5E-09	3.91E-09	1.3E-11	3.75E-06	1.3E-09	3.8E-09	0
TETRACHLOROETHYLENE (PCE)	C-B2	5.20E-02	5.20E-02	1.00E-02	3.86E-02	1	3.30E-02	5.74E-04	**3.0E-05**	3.84E-05	**2.0E-06**	2.87E-03	**2.9E-05**	**6.1E-05**	11
TOLUENE	D				3.45E-04	1	3.10E-02	5.13E-06		3.23E-07		2.57E-05			

Table C-117

Hypothetical Future Residential Scenario - Potential Excess Lifetime Cancer Risk

AVMA Groundwater - All Groundwater

Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation		Total ELCR	%
Chemical	WOE	SF_o $(mg/kg\text{-}day)^{-1}$	SF_d $(mg/kg\text{-}day)^{-1}$	SF_i $(mg/kg\text{-}day)^{-1}$	EPC	ABS_{gi}	Kp	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR		Contribution
TRICHLOROETHYLENE (TCE)	B2	1.10E-02	1.10E-02	6.00E-03	8.15E-05	1	1.20E-02	1.21E-06	1.3E-08	2.95E-08	3.2E-10	6.06E-06	3.6E-08	5.0E-08	0
XYLENES, TOTAL	D				3.40E-04	1	5.30E-03	5.06E-06		5.44E-08		2.53E-05			
Total Risk									**5.1E-04**		**1.8E-05**		**3.1E-05**		88
												Total Risk =	**5.6E-04**		

Note:

Cancer WOE Classifications:

Group A: Human carcinogen

Group B (B1, B2): Probable human carcinogen

Group C: Possible human carcinogen

Group D: Not classifiable

Group E: No evidence of carcinogenicity

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

ELCR = Excess Lifetime Cancer Risk

EPC = Exposure Point Concentration

mg/kg-day = milligrams per kilogram per day

SF_d = Dermal Slope Factor

SF_o = Oral Slope Factor

SF_i = Inhalation Slope Factor

WOE = Weight of Evidence

Table C-118
Hypothetical Future Residential Scenario - Potential Noncarcinogenic Risk
AVMA Groundwater - All Groundwater
Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation		Total HQ	%
Chemical	WOE	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC	ABSgi	Kp	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ		Contribution
ALUMINUM	--	1.00E+00	1.00E+00	1.40E-03	6.10E+02	1	1.00E-03	2.12E+01	**21**	4.30E-02	0.0430	1.06E+02		**21**	10
ANTIMONY	--	4.00E-04	6.00E-06		1.17E-02	0	1.00E-03	4.05E-04	**1.0**	8.21E-07	0.1368	2.02E-03		**1**	1
ARSENIC	A	3.00E-04	3.00E-04		2.13E-02	1	1.00E-03	7.38E-04	**2.5**	1.50E-06	0.0050	3.69E-03		**2**	1
BARIUM	D	7.00E-02	4.90E-03	1.43E-04	1.29E+00	0	1.00E-03	4.47E-02	0.64	9.07E-05	0.0185	2.23E-01		1	0
CHROMIUM	A	3.00E-03	7.50E-05	2.20E-06	1.21E+00	0	2.00E-03	4.19E-02	**14**	1.70E-04	**2.2656**	2.09E-01		**16**	7
COPPER	D	4.00E-02	4.00E-02		1.20E+00	1	1.00E-03	4.17E-02	**1.0**	8.45E-05	0.0021	2.08E-01		**1**	0
IRON	--	3.00E-01	3.00E-01		1.20E+03	1	1.00E-03	4.17E+01	**139**	8.45E-02	0.2816	2.08E+02		**139**	64
MANGANESE	D	2.40E-02	9.60E-04	1.40E-05	2.20E+01	0	1.00E-03	7.64E-01	**32**	1.55E-03	**1.6136**	3.82E+00		**33**	15
NICKEL	D	2.00E-02	8.00E-04		7.38E-01	0	2.00E-04	2.56E-02	**1.3**	1.04E-05	0.0130	1.28E-01		**1**	1
SELENIUM	D	5.00E-03	5.00E-03		3.91E-02	1	1.00E-03	1.36E-03	0.27	2.75E-06	0.0006	6.78E-03		0	0
ZINC	D	3.00E-01	3.00E-01		2.70E+00	1	6.00E-04	9.37E-02	0.31	1.14E-04	0.0004	4.68E-01		0	0
BETA BHC	C	2.00E-04	2.00E-04		8.31E-06	1	2.79E-02	2.88E-07	0.00	1.63E-08	0.0001	1.44E-06		0	0
ENDRIN ALDEHYDE	D	3.00E-04	3.00E-04		7.14E-06	1	1.20E-02	2.48E-07	0.00	6.03E-09	0.0000	1.24E-06		0	0
HEPTACHLOR	B2	5.00E-04	5.00E-04		7.72E-06	1	8.60E-03	2.68E-07	0.00	4.67E-09	0.0000	1.34E-06		0	0
2-METHYLNAPHTHALENE	--	9.00E-03	9.00E-03		1.31E-05	1	1.42E-02	4.54E-07	0.00	1.31E-08	0.0000	2.27E-06		0	0
ACENAPHTHENE	D	6.00E-02	6.00E-02		5.45E-06	1	1.33E-01	1.89E-07	0.00	5.10E-08	0.0000	9.45E-07		0	0
BENZO(a)PYRENE	B2				1.53E-05	1	7.00E-01	5.32E-07		7.55E-07		2.66E-06			
BENZO(b)FLUORANTHENE	B2				1.31E-05	1	7.00E-01	4.53E-07		6.44E-07		2.27E-06			
BENZO(g,h,i)PERYLENE	--				2.17E-05	1	2.00E+00	7.55E-07		3.06E-06		3.77E-06			
BENZO(k)FLUORANTHENE	B2				2.10E-05	1	1.20E+00	7.29E-07		1.77E-06		3.64E-06			
BENZYL ALCOHOL	--	3.00E-01	3.00E-01		5.67E-04	1	2.52E-03	1.97E-05	0.00	1.01E-07	0.0000	9.84E-05		0	0
bis(2-ETHYLHEXYL) PHTHALATE	--	2.00E-02	2.00E-02		9.25E-04	1	2.50E-02	3.21E-05	0.00	1.63E-06	0.0001	1.61E-04		0	0
DIBENZ(a,h)ANTHRACENE	B2				3.53E-05	1	1.50E+00	1.23E-06		3.73E-06		6.13E-06			
DIMETHYL PHTHALATE	D	1.00E+01	1.00E+01	1.00E+01	2.53E-04	1	1.70E-03	8.79E-06	0.00	3.03E-08	0.0000	4.39E-05		0	0
DI-n-BUTYL PHTHALATE	D	1.00E-01	1.00E-01		4.30E-03	1	2.40E-02	1.49E-04	0.00	7.26E-06	0.0001	7.45E-04		0	0
DI-n-OCTYLPHTHALATE	D	4.00E-02	4.00E-02		3.30E-04	1	4.45E+00	1.15E-05	0.00	1.03E-04	0.0026	5.73E-05		0	0
FLUORENE	D	4.00E-02	4.00E-02		5.67E-06	1	1.70E-01	1.97E-07	0.00	6.79E-08	0.0000	9.85E-07		0	0
INDENO(1,2,3-c,d)PYRENE	B2				4.59E-05	1	1.00E+00	1.59E-06		3.23E-06		7.96E-06			
PHENANTHRENE	D	3.00E-01	3.00E-01		7.30E-06	1	1.40E-01	2.54E-07	0.00	7.20E-08	0.0000	1.27E-06		0	0
PHENOL	--	6.00E-01	6.00E-01		4.74E-04	1	4.30E-03	1.64E-05	0.00	1.43E-07	0.0000	8.22E-05		0	0
1,1,1-TRICHLOROETHANE	D	2.80E-01	2.80E-01	6.30E-01	1.46E-04	1	1.30E-02	5.07E-06	0.00	1.34E-07	0.0000	2.54E-05	0.00	0	0
1,2-DICHLOROBENZENE	--	9.00E-02	9.00E-02	5.71E-02	1.07E-04	1	4.10E-02	3.73E-06	0.00	3.10E-07	0.0000	1.86E-05	0.00	0	0
1,3-DICHLOROBENZENE	D	9.00E-04	9.00E-04	9.00E-04	7.82E-05	1	5.80E-02	2.72E-06	0.00	3.20E-07	0.0004	1.36E-05	0.02	0	0
1,4-DICHLOROBENZENE	--	3.00E-02	3.00E-02	2.29E-01	8.42E-05	1	4.20E-02	2.92E-06	0.00	2.49E-07	0.0000	1.46E-05	0.00	0	0
ACETONE	D	1.00E-01	1.00E-01	1.00E-01	4.77E-03	1	5.69E-04	1.66E-04	0.00	1.91E-07	0.0000	8.28E-04	0.01	0	0
BENZENE	A	4.00E-03	4.00E-03	8.60E-03	7.10E-05	1	1.50E-02	2.46E-06	0.00	7.50E-08	0.0000	1.23E-05	0.00	0	0
BROMODICHLOROMETHANE	B2	2.00E-02	2.00E-02	2.00E-02	7.58E-05	1	4.60E-03	2.63E-06	0.00	2.46E-08	0.0000	1.32E-05	0.00	0	0
CARBON DISULFIDE	--	1.00E-01	1.00E-01	2.00E-01	6.87E-05	1	1.70E-02	2.38E-06	0.00	8.22E-08	0.0000	1.19E-05	0.00	0	0
CARBON TETRACHLORIDE	B2	7.00E-04	7.00E-04	7.00E-04	4.36E-04	1	1.60E-02	1.52E-05	0.02	4.92E-07	0.0007	7.57E-05	0.11	0	0
CHLOROFORM	B2	1.00E-02	1.00E-02	8.60E-04	1.46E-03	1	6.80E-03	5.05E-05	0.01	6.97E-07	0.0001	2.53E-04	0.29	0	0
CHLOROMETHANE	--			8.60E-02	4.42E-04	1	3.30E-03	1.53E-05		1.03E-07		7.67E-05	0.00	0	0
METHYL ISOBUTYL KETONE	--	8.00E-02	8.00E-02	2.29E-02	9.34E-05	1	3.97E-03	3.24E-06	0.00	2.61E-08	0.0000	1.62E-05	0.00	0	0
METHYLENE CHLORIDE	B2	6.00E-02	6.00E-02	8.57E-01	1.50E-03	1	3.50E-03	5.20E-05	0.00	3.69E-07	0.0000	2.60E-04	0.00	0	0
NAPHTHALENE	C	2.00E-02	2.00E-02	8.57E-04	3.97E-05	1	4.70E-02	1.38E-06	0.00	1.31E-07	0.0000	6.89E-06	0.01	0	0
P-CYMENE (p-ISOPROPYLTOLUENE	D	1.00E-01	1.00E-01	1.10E-01	6.27E-05	1	1.40E-01	2.18E-06	0.00	6.18E-07	0.0000	1.09E-05	0.00	0	0
tert-BUTYL METHYL ETHER	--	8.57E-01	8.57E-01	8.57E-01	5.04E-05	1	2.57E-03	1.75E-06	0.00	9.12E-09	0.0000	8.74E-06	0.00	0	0
TETRACHLOROETHYLENE (PCE)	C-B2	1.00E-02	1.00E-02	1.70E-01	3.86E-02	1	3.30E-02	1.34E-03	0.13	8.96E-05	0.0090	6.69E-03	0.04	0	0
TOLUENE	D	2.00E-01	2.00E-01	1.10E-01	3.45E-04	1	3.10E-02	1.20E-05	0.00	7.53E-07	0.0000	5.99E-05	0.00	0	0

Table C-118

Hypothetical Future Residential Scenario - Potential Noncarcinogenic Risk

AVMA Groundwater - All Groundwater

Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation		Total HQ	%
Chemical	WOE	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC	ABSgi	Kp	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ		Contribution
TRICHLOROETHYLENE (TCE)	B2	6.00E-03	6.00E-03	6.00E-03	8.15E-05	1	1.20E-02	2.83E-06	0.00	6.88E-08	0.0000	1.41E-05	0.00	0	0
XYLENES, TOTAL	D	2.00E-01	2.00E-01	2.90E-02	3.40E-04	1	5.30E-03	1.18E-05	0.00	1.27E-07	0.0000	5.91E-05	0.00	0	0
Hazard Index									**213**		**4.4**		0.48		100
												Total HI =	**217.9**		

Note:

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

EPC = Exposure Point Concentration

HI = Hazard Index

HQ = Hazard Quotient;

mg/kg-day = milligrams per kilogram per day

RfC = Reference Concentration

RfD_d = Dermal Reference Dose;

RfD_o = Oral Reference Dose

RfD_i = Inhalation Reference Dose

Table C-119

Hypothetical Future Residential Scenario - Potential Excess Lifetime Cancer Risk

AVMA Groundwater - Well AP-2980

Fort Richardson - Operable Unit E

		SF_o	SF_d	SF_i				Ingestion		Dermal		Inhalation		Total ELCR	%
		(mg/kg-day)$^{-1}$	(mg/kg-day)$^{-1}$	(mg/kg-day)$^{-1}$				CDI		CDI (mg/kg-day)		CDI			
Chemical	**WOE**				**EPC**	**ABSgi**	**Kp**	**(mg/kg-day)**	**ELCR**		**ELCR**	**(mg/kg-day)**	**ELCR**		**Contribution**
BENZYL ALCOHOL	--				1.40E-03	1	2.52E-03	2.08E-05		1.06E-07		1.04E-04		0E+00	#DIV/0!
CHLOROFORM	B2				5.60E-03	1	6.80E-03	8.33E-05		1.15E-06		4.16E-04		0E+00	#DIV/0!
TOLUENE	D				5.30E-04	1	3.10E-02	7.88E-06		4.96E-07		3.94E-05		0E+00	#DIV/0!
Total Risk									0.0E+00		0.0E+00		0E+00		#DIV/0!
												Total Risk =	**0.0E+00**		

Note:

Cancer WOE Classifications:

Group A: Human carcinogen

Group B (B1, B2): Probable human carcinogen

Group C: Possible human carcinogen

Group D: Not classifiable

Group E: No evidence of carcinogenicity

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

ELCR = Excess Lifetime Cancer Risk

EPC = Exposure Point Concentration

mg/kg-day = milligrams per kilogram per day

SF_d = Dermal Slope Factor

SF_o = Oral Slope Factor

SF_i = Inhalation Slope Factor

WOE = Weight of Evidence

Table C-120

Hypothetical Future Residential Scenario - Potential Noncarcinogenic Risk

AVMA Groundwater - Well AP-2980

Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation		Total HQ	%
Chemical	WOE	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC	ABSgi	Kp	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ		Contribution
BENZYL ALCOHOL	--	3.00E-01	3.00E-01		1.40E-03	1	2.52E-03	4.86E-05	0.00	2.48E-07	0.0000	2.43E-04		0.00016	0
CHLOROFORM	B2	1.00E-02	1.00E-02	8.60E-04	5.60E-03	1	6.80E-03	1.94E-04	0.02	2.68E-06	0.0003	9.72E-04	**1.13**	**1.1**	100
TOLUENE	D	2.00E-01	2.00E-01	1.10E-01	5.30E-04	1	3.10E-02	1.84E-05	0.00	1.16E-06	0.0000	9.20E-05	0.00	0.00093	0
Hazard Index									0.020		0.00027		**1.1**		100
												Total HI =	**1.2**		

Note:

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

EPC = Exposure Point Concentration

HI = Hazard Index

HQ = Hazard Quotient;

mg/kg-day = milligrams per kilogram per day

RfC = Reference Concentration

RfD_d = Dermal Reference Dose;

RfD_o = Oral Reference Dose

RfD_i = Inhalation Reference Dose

Table C-121

Hypothetical Future Residential Scenario - Potential Excess Lifetime Cancer Risk

AVMA Groundwater - Well AP-3441

Fort Richardson - Operable Unit E

									Ingestion		Dermal		Inhalation		Total ELCR	%
Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC	ABS_{gi}	Kp	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR		Contribution
CHLOROFORM	B2				1.30E-03	1	6.80E-03	1.93E-05		2.67E-07		9.67E-05		0.0E+00	0
METHYLENE CHLORIDE	B2	7.50E-03	7.50E-03	1.65E-03	6.00E-03	1	3.50E-03	8.93E-05	6.7E-07	6.34E-07	4.8E-09	4.46E-04	7.3E-07	**1.4E-06**	100
TOLUENE	D				4.80E-04	1	3.10E-02	7.14E-06		4.49E-07		3.57E-05		0.0E+00	0
Total Risk									6.7E-07		4.8E-09		7.3E-07		100
													Total Risk =	**1.4E-06**	

Note:

Cancer WOE Classifications:

Group A: Human carcinogen

Group B (B1, B2): Probable human carcinogen

Group C: Possible human carcinogen

Group D: Not classifiable

Group E: No evidence of carcinogenicity

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

ELCR = Excess Lifetime Cancer Risk

EPC = Exposure Point Concentration

mg/kg-day = milligrams per kilogram per day

SF_d = Dermal Slope Factor

SF_o = Oral Slope Factor

SF_i = Inhalation Slope Factor

WOE = Weight of Evidence

Table C-122

Hypothetical Future Residential Scenario - Potential Noncarcinogenic Risk

AVMA Groundwater - Well AP-3441

Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation		Total HQ	%
Chemical	WOE	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC	ABSgi	Kp	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ		Contribution
CHLOROFORM	B2	1.00E-02	1.00E-02	8.60E-04	1.30E-03	1	6.80E-03	4.51E-05	0.00	6.22E-07	0.0001	2.26E-04	3E-01	0.27	98
METHYLENE CHLORIDE	B2	6.00E-02	6.00E-02	8.57E-01	6.00E-03	1	3.50E-03	2.08E-04	0.00	1.48E-06	0.0000	1.04E-03	1E-03	0.0047	2
TOLUENE	D	2.00E-01	2.00E-01	1.10E-01	4.80E-04	1	3.10E-02	1.67E-05	0.00	1.05E-06	0.0000	8.33E-05	8E-04	0.00085	0
Hazard Index									0.0081		0.000092		0.26		100
												Total HI =	0.27		

Note:

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

EPC = Exposure Point Concentration

HI = Hazard Index

HQ = Hazard Quotient;

mg/kg-day = milligrams per kilogram per day

RfC = Reference Concentration

RfD_d = Dermal Reference Dose;

RfD_o = Oral Reference Dose

RfD_i = Inhalation Reference Dose

Table C-123

Hypothetical Future Residential Scenario - Potential Excess Lifetime Cancer Risk

AVMA Groundwater - Well AP-3467

Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation		Total ELCR	%
Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC	ABS_{gi}	Kp	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR		Contribution
bis(2-ETHYLHEXYL) PHTHAl	--	1.40E-02	1.40E-02		2.20E-03	1	2.50E-02	3.27E-05	4.6E-07	1.66E-06	2.3E-08	1.64E-04		4.8E-07	73
DI-n-BUTYL PHTHALATE	D				5.80E-03	1	2.40E-02	8.63E-05		4.20E-06		4.31E-04			0
ACETONE	D				6.50E-03	1	5.69E-04	9.67E-05		1.12E-07		4.83E-04			0
METHYLENE CHLORIDE	B2	7.50E-03	7.50E-03	1.65E-03	7.70E-04	1	3.50E-03	1.15E-05	8.6E-08	8.13E-08	6.1E-10	5.73E-05	9.4E-08	1.8E-07	27
TOLUENE	D				2.75E-04	1	3.10E-02	4.09E-06		2.57E-07		2.04E-05			0
Total Risk									5.4E-07		2.4E-08		9.4E-08		100
												Total Risk =	6.6E-07		

Note:

Cancer WOE Classifications:

- Group A: Human carcinogen
- Group B (B1, B2): Probable human carcinogen
- Group C: Possible human carcinogen
- Group D: Not classifiable
- Group E: No evidence of carcinogenicity

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

ELCR = Excess Lifetime Cancer Risk

EPC = Exposure Point Concentration

mg/kg-day = milligrams per kilogram per day

SF_d = Dermal Slope Factor

SF_o = Oral Slope Factor

SF_i = Inhalation Slope Factor

WOE = Weight of Evidence

Table C-124

Hypothetical Future Residential Scenario - Potential Noncarcinogenic Risk

AVMA Groundwater - Well AP-3467

Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation		Total HQ	%
Chemical	WOE	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC	ABSgi	Kp	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ		Contribution
bis(2-ETHYLHEXYL) PHTHALATE	--	2.00E-02	2.00E-02		2.20E-03	1	2.50E-02	7.64E-05	0.00	3.87E-06	0.0002	3.82E-04		0.0040	19
DI-n-BUTYL PHTHALATE	D	1.00E-01	1.00E-01		5.80E-03	1	2.40E-02	2.01E-04	0.00	9.80E-06	0.0001	1.01E-03		0.0021	10
ACETONE	D	1.00E-01	1.00E-01	1.00E-01	6.50E-03	1	5.69E-04	2.26E-04	0.00	2.60E-07	0.0000	1.13E-03	1E-02	0.014	65
METHYLENE CHLORIDE	B2	6.00E-02	6.00E-02	8.57E-01	7.70E-04	1	3.50E-03	2.67E-05	0.00	1.90E-07	0.0000	1.34E-04	2E-04	0.00060	3
TOLUENE	D	2.00E-01	2.00E-01	1.10E-01	2.75E-04	1	3.10E-02	9.55E-06	0.00	6.00E-07	0.0000	4.77E-05	4E-04	0.00048	2
Hazard Index									0.0086		0.00030		0.012		100
												Total HI =	0.021		

Note:

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

EPC = Exposure Point Concentration

HI = Hazard Index

HQ = Hazard Quotient;

mg/kg-day = milligrams per kilogram per day

RfC = Reference Concentration

RfD_d = Dermal Reference Dose;

RfD_o = Oral Reference Dose

RfD_i = Inhalation Reference Dose

Table C-125
Hypothetical Future Residential Scenario - Potential Excess Lifetime Cancer Risk
AVMA Groundwater - Well AP-3468
Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation		Total ELCR	%
Chemical	WOE	SF_o $(mg/kg\text{-}day)^{-1}$	SF_d $(mg/kg\text{-}day)^{-1}$	SF_i $(mg/kg\text{-}day)^{-1}$	EPC	ABS_{gi}	Kp	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR		Contribution
BARIUM	D				1.10E-01	0	1.00E-03	1.64E-03		3.32E-06		8.18E-03		0.0E+00	0
CHROMIUM	A			2.94E+02	6.90E-01	0	2.00E-03	1.03E-02		4.16E-05		5.13E-02		0.0E+00	0
NICKEL	D				2.30E-01	0	2.00E-04	3.42E-03		1.39E-06		1.71E-02		0.0E+00	0
ZINC	D				6.70E-01	1	6.00E-04	9.97E-03		1.21E-05		4.98E-02		0.0E+00	0
DI-n-BUTYL PHTHALATE	D				2.40E-03	1	2.40E-02	3.57E-05		1.74E-06		1.78E-04		0.0E+00	0
PHENOL	--				2.80E-03	1	4.30E-03	4.17E-05		3.63E-07		2.08E-04		0.0E+00	0
ACETONE	D				2.40E-03	1	5.69E-04	3.57E-05		4.12E-08		1.78E-04		0.0E+00	0
CARBON TETRACHLORIDE	B2	1.30E-01	1.30E-01	5.25E-02	5.00E-04	1	1.60E-02	7.44E-06	9.7E-07	2.41E-07	3.1E-08	3.72E-05	**2.0E-06**	**3.0E-06**	2
CHLOROFORM	B2				6.95E-04	1	6.80E-03	1.03E-05		1.43E-07		5.17E-05		0.0E+00	0
METHYLENE CHLORIDE	B2	7.50E-03	7.50E-03	1.65E-03	5.30E-04	1	3.50E-03	7.88E-06	5.9E-08	5.60E-08	4.2E-10	3.94E-05	6.5E-08	1.2E-07	0
P-CYMENE (p-ISOPROPYLTOLUE	D				1.10E-04	1	1.40E-01	1.64E-06		4.65E-07		8.18E-06		0.0E+00	0
TETRACHLOROETHYLENE (PCE	C-B2	5.20E-02	5.20E-02	1.00E-02	8.40E-02	1	3.30E-02	1.25E-03	**6.5E-05**	8.36E-05	**4.3E-06**	6.25E-03	**6.2E-05**	**1.3E-04**	98
TOLUENE	D				1.20E-03	1	3.10E-02	1.79E-05		1.12E-06		8.92E-05		0.0E+00	0
Total Risk									**6.6E-05**		**4.4E-06**		**6.4E-05**		100
												Total Risk =	**1.3E-04**		

Note:
Cancer WOE Classifications:
Group A: Human carcinogen
Group B (B1, B2): Probable human carcinogen
Group C: Possible human carcinogen
Group D: Not classifiable
Group E: No evidence of carcinogenicity
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
ELCR = Excess Lifetime Cancer Risk
EPC = Exposure Point Concentration
mg/kg-day = milligrams per kilogram per day
SF_d = Dermal Slope Factor
SF_o = Oral Slope Factor
SF_i = Inhalation Slope Factor
WOE = Weight of Evidence

Table C-126
Hypothetical Future Residential Scenario - Potential Noncarcinogenic Risk
AVMA Groundwater - Well AP-3468
Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation		Total HQ	%
Chemical	WOE	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC	ABSgi	Kp	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ		Contribution
BARIUM	D	7.00E-02	4.90E-03	1.43E-04	1.10E-01	0	1.00E-03	3.82E-03	0.05	7.75E-06	0.00	1.91E-02		0	1
CHROMIUM	A	3.00E-03	7.50E-05	2.20E-06	6.90E-01	0	2.00E-03	2.40E-02	**7.98**	9.72E-05	**1.30**	1.20E-01		**9.3**	88
NICKEL	D	2.00E-02	8.00E-04		2.30E-01	0	2.00E-04	7.98E-03	0.40	3.24E-06	0.00	3.99E-02		0.40	4
ZINC	D	3.00E-01	3.00E-01		6.70E-01	1	6.00E-04	2.33E-02	0.08	2.83E-05	0.00	1.16E-01		0.078	1
DI-n-BUTYL PHTHALATE	D	1.00E-01	1.00E-01		2.40E-03	1	2.40E-02	8.33E-05	0.00	4.06E-06	0.00	4.16E-04		0.00087	0
PHENOL	--	6.00E-01	6.00E-01		2.80E-03	1	4.30E-03	9.72E-05	0.00	8.48E-07	0.00	4.86E-04		0.00016	0
ACETONE	D	1.00E-01	1.00E-01	1.00E-01	2.40E-03	1	5.69E-04	8.33E-05	0.00	9.62E-08	0.00	4.16E-04	0.00	0.0050	0
CARBON TETRACHLORIDE	B2	7.00E-04	7.00E-04	7.00E-04	5.00E-04	1	1.60E-02	1.74E-05	0.02	5.63E-07	0.00	8.68E-05	0.12	0.15	1
CHLOROFORM	B2	1.00E-02	1.00E-02	8.60E-04	6.95E-04	1	6.80E-03	2.41E-05	0.00	3.33E-07	0.00	1.21E-04	0.14	0.14	1
METHYLENE CHLORIDE	B2	6.00E-02	6.00E-02	8.57E-01	5.30E-04	1	3.50E-03	1.84E-05	0.00	1.31E-07	0.00	9.20E-05	0.00	0.00042	0
P-CYMENE (p-ISOPROPYLTOLUEN	D	1.00E-01	1.00E-01	1.10E-01	1.10E-04	1	1.40E-01	3.82E-06	0.00	1.08E-06	0.00	1.91E-05	0.00	0.00022	0
TETRACHLOROETHYLENE (PCE)	C-B2	1.00E-02	1.00E-02	1.70E-01	8.40E-02	1	3.30E-02	2.92E-03	0.29	1.95E-04	0.02	1.46E-02	0.09	0.40	4
TOLUENE	D	2.00E-01	2.00E-01	1.10E-01	1.20E-03	1	3.10E-02	4.17E-05	0.00	2.62E-06	0.00	2.08E-04	0.00	0.0021	0
Hazard Index									**9**		**1.3**		0.36		100
												Total HI =	**11**		

Note:
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
EPC = Exposure Point Concentration
HI = Hazard Index
HQ = Hazard Quotient;
mg/kg-day = milligrams per kilogram per day
RfC = Reference Concentration
RfD_d = Dermal Reference Dose;
RfD_o = Oral Reference Dose
RfD_i = Inhalation Reference Dose

Table C-127

Hypothetical Future Residential Scenario - Potential Excess Lifetime Cancer Risk

AVMA Groundwater - Well AP-3483

Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation		Total ELCR	%
Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC	ABS_{gi}	Kp	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR		Contribution
BENZO(b)FLUORANTHENE	B2	7.30E-01	7.30E-01		5.60E-05	1	7.00E-01	8.33E-07	6.1E-07	1.18E-06	8.6E-07	4.16E-06		**1.5E-06**	5
DIBENZ(a,h)ANTHRACENE	B2	7.30E+00	7.30E+00		5.60E-05	1	1.50E+00	8.33E-07	**6.1E-06**	2.53E-06	**1.9E-05**	4.16E-06		**2.5E-05**	92
METHYLENE CHLORIDE	B2	7.50E-03	7.50E-03	1.65E-03	3.30E-03	1	3.50E-03	4.91E-05	3.7E-07	3.49E-07	2.6E-09	2.45E-04	4.0E-07	7.7E-07	3
Total Risk									**7.1E-06**		**1.9E-05**		4.0E-07		100
													Total Risk =	**2.7E-05**	

Note:

Cancer WOE Classifications:

Group A: Human carcinogen

Group B (B1, B2): Probable human carcinogen

Group C: Possible human carcinogen

Group D: Not classifiable

Group E: No evidence of carcinogenicity

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

ELCR = Excess Lifetime Cancer Risk

EPC = Exposure Point Concentration

mg/kg-day = milligrams per kilogram per day

SF_d = Dermal Slope Factor

SF_o = Oral Slope Factor

SF_i = Inhalation Slope Factor

WOE = Weight of Evidence

Table C-128

Hypothetical Future Residential Scenario - Potential Noncarcinogenic Risk

AVMA Groundwater - Well AP-3483

Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation		Total HQ	%
		RfD_o	RfD_d	RfD_i				CDI		CDI		CDI			
Chemical	**WOE**	**(mg/kg-day)**	**(mg/kg-day)**	**(mg/kg-day)**	**EPC**	**ABSgi**	**Kp**	**(mg/kg-day)**	**HQ**	**(mg/kg-day)**	**HQ**	**(mg/kg-day)**	**HQ**		**Contribution**
BENZO(b)FLUORANTHENE	B2				5.60E-05	1	7.00E-01	1.94E-06		2.76E-06		9.72E-06		0	0
DIBENZ(a,h)ANTHRACENE	B2				5.60E-05	1	1.50E+00	1.94E-06		5.91E-06		9.72E-06		0	0
METHYLENE CHLORIDE	B2	6.00E-02	6.00E-02	8.57E-01	3.30E-03	1	3.50E-03	1.15E-04	0.00	8.13E-07	0.00	5.73E-04	0	0.0026	100
Hazard Index									0.0019		0.000014		0.00067		100
												Total HI =	0.0026		

Note:

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

EPC = Exposure Point Concentration

HI = Hazard Index

HQ = Hazard Quotient;

mg/kg-day = milligrams per kilogram per day

RfC = Reference Concentration

RfD_d = Dermal Reference Dose;

RfD_o = Oral Reference Dose

RfD_i = Inhalation Reference Dose

Table C-129

Hypothetical Future Residential Scenario - Potential Excess Lifetime Cancer Risk

AVMA Groundwater - Well AP-3532

Fort Richardson - Operable Unit E

Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC	ABSgi	Kp	Ingestion CDI (mg/kg-day)	Ingestion ELCR	Dermal CDI (mg/kg-day)	Dermal ELCR	Inhalation CDI (mg/kg-day)	Inhalation ELCR	Total ELCR	% Contribution
DI-n-BUTYL PHTHALATE	D				3.20E-03	1	2.40E-02	4.76E-05		2.32E-06		2.38E-04		0.0E+00	0
CARBON TETRACHLORIDE	B2	1.30E-01	1.30E-01	5.25E-02	2.20E-03	1	1.60E-02	3.27E-05	**4.3E-06**	1.06E-06	1.4E-07	1.64E-04	**8.6E-06**	**1.3E-05**	96
CHLOROFORM	B2				2.40E-04	1	6.80E-03	3.57E-06		4.92E-08		1.78E-05		0.0E+00	0
CHLOROMETHANE	--	1.30E-02	1.30E-02	6.30E-03	5.85E-04	1	3.30E-03	8.70E-06	1.1E-07	5.83E-08	7.6E-10	4.35E-05	2.7E-07	3.9E-07	3
METHYLENE CHLORIDE	B2	7.50E-03	7.50E-03	1.65E-03	7.70E-04	1	3.50E-03	1.15E-05	8.6E-08	8.13E-08	6.1E-10	5.73E-05	9.4E-08	1.8E-07	1
Total Risk									**4.5E-06**		1.4E-07		**9.0E-06**		100
													Total Risk =	**1.4E-05**	

Note:

Cancer WOE Classifications:

- Group A: Human carcinogen
- Group B (B1, B2): Probable human carcinogen
- Group C: Possible human carcinogen
- Group D: Not classifiable
- Group E: No evidence of carcinogenicity

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

ELCR = Excess Lifetime Cancer Risk

EPC = Exposure Point Concentration

mg/kg-day = milligrams per kilogram per day

SF_d = Dermal Slope Factor

SF_o = Oral Slope Factor

SF_i = Inhalation Slope Factor

WOE = Weight of Evidence

Table C-130
Hypothetical Future Residential Scenario - Potential Noncarcinogenic Risk
AVMA Groundwater - Well AP-3532
Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation		Total HQ	%
Chemical	WOE	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC	ABSgi	Kp	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ		Contribution
DI-n-BUTYL PHTHALATE	D	1.00E-01	1.00E-01		3.20E-03	1	2.40E-02	1.11E-04	0.00	5.41E-06	0.00	5.55E-04		0.0012	0
CARBON TETRACHLORIDE	B2	7.00E-04	7.00E-04	7.00E-04	2.20E-03	1	1.60E-02	7.64E-05	0.11	2.48E-06	0.00	3.82E-04	0.55	0.66	93
CHLOROFORM	B2	1.00E-02	1.00E-02	8.60E-04	2.40E-04	1	6.80E-03	8.33E-06	0.00	1.15E-07	0.00	4.16E-05	0.05	0.049	7
CHLOROMETHANE	--			8.60E-02	5.85E-04	1	3.30E-03	2.03E-05		1.36E-07		1.02E-04	0.00	0.0012	0
METHYLENE CHLORIDE	B2	6.00E-02	6.00E-02	8.57E-01	7.70E-04	1	3.50E-03	2.67E-05	0.00	1.90E-07	0.00	1.34E-04	0.00	0.00060	0
Hazard Index									0.11		0.0036		0.60		100
												Total HI =	0.71		

Note:
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
EPC = Exposure Point Concentration
HI = Hazard Index
HQ = Hazard Quotient;
mg/kg-day = milligrams per kilogram per day
RfC = Reference Concentration
RfD_d = Dermal Reference Dose;
RfD_o = Oral Reference Dose
RfD_i = Inhalation Reference Dose

Table C-131

Hypothetical Future Residential Scenario - Potential Excess Lifetime Cancer Risk

AVMA Groundwater - Well AP-3534

Fort Richardson - Operable Unit E

									Ingestion		Dermal		Inhalation		Total ELCR	%
Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC	ABS_{gi}	Kp	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR		Contribution
BENZO(g,h,i)PERYLENE	--			1.60E+01	3.20E-05	1	2.00E+00	4.76E-07		1.93E-06		2.38E-06		0.0E+00	0
DIBENZ(a,h)ANTHRACENE	B2	7.30E+00	7.30E+00		3.20E-05	1	1.50E+00	4.76E-07	**3.5E-06**	1.45E-06	**1.1E-05**	2.38E-06		**1.4E-05**	21
DI-n-BUTYL PHTHALATE	D				3.20E-03	1	2.40E-02	4.76E-05		2.32E-06		2.38E-04		0.0E+00	0
INDENO(1,2,3-c,d)PYRENE	B2	7.30E-01	7.30E-01		4.30E-05	1	1.00E+00	6.40E-07	4.7E-07	1.30E-06	9.5E-07	3.20E-06		**1.4E-06**	2
METHYLENE CHLORIDE	B2	7.50E-03	7.50E-03	1.65E-03	8.30E-04	1	3.50E-03	1.23E-05	9.3E-08	8.77E-08	6.6E-10	6.17E-05	1.0E-07	1.9E-07	0
TETRACHLOROETHYLENE	C-B2	5.20E-02	5.20E-02	1.00E-02	3.30E-02	1	3.30E-02	4.91E-04	**2.6E-05**	3.29E-05	**1.7E-06**	2.45E-03	**2.5E-05**	**5.2E-05**	77
Total Risk									**3.0E-05**		**1.3E-05**		**2.5E-05**		100
													Total Risk =	**6.7E-05**	

Note:

Cancer WOE Classifications:

Group A: Human carcinogen

Group B (B1, B2): Probable human carcinogen

Group C: Possible human carcinogen

Group D: Not classifiable

Group E: No evidence of carcinogenicity

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

ELCR = Excess Lifetime Cancer Risk

EPC = Exposure Point Concentration

mg/kg-day = milligrams per kilogram per day

SF_d = Dermal Slope Factor

SF_o = Oral Slope Factor

SF_i = Inhalation Slope Factor

WOE = Weight of Evidence

Table C-132

Hypothetical Future Residential Scenario - Potential Noncarcinogenic Risk

AVMA Groundwater - Well AP-3534

Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation		Total HQ	%
Chemical	WOE	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC	ABSgi	Kp	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ		Contribution
BENZO(g,h,i)PERYLENE	--				3.20E-05	1	2.00E+00	1.11E-06		4.51E-06		5.55E-06		0.0	0
DIBENZ(a,h)ANTHRACENE	B2				3.20E-05	1	1.50E+00	1.11E-06		3.38E-06		5.55E-06		0.0	0
DI-n-BUTYL PHTHALATE	D	1.00E-01	1.00E-01		3.20E-03	1	2.40E-02	1.11E-04	0.00	5.41E-06	0.00	5.55E-04		0.0012	1
INDENO(1,2,3-c,d)PYRENE	B2				4.30E-05	1	1.00E+00	1.49E-06		3.03E-06		7.46E-06		0.0	0
METHYLENE CHLORIDE	B2	6.00E-02	6.00E-02	8.57E-01	8.30E-04	1	3.50E-03	2.88E-05	0.00	2.05E-07	0.00	1.44E-04	0.00	0.00065	0
TETRACHLOROETHYLENE (PCE)	C-B2	1.00E-02	1.00E-02	1.70E-01	3.30E-02	1	3.30E-02	1.15E-03	0.11	7.67E-05	0.01	5.73E-03	0.03	0.16	99
Hazard Index									0.12		0.008		0.034		100
												Total HI =	0.16		

Note:

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

EPC = Exposure Point Concentration

HI = Hazard Index

HQ = Hazard Quotient;

mg/kg-day = milligrams per kilogram per day

RfC = Reference Concentration

RfD_d = Dermal Reference Dose;

RfD_o = Oral Reference Dose

RfD_i = Inhalation Reference Dose

Table C-133

Hypothetical Future Residential Scenario - Potential Excess Lifetime Cancer Risk

AVMA Groundwater - Well AP-3650

Fort Richardson - Operable Unit E

									Ingestion		Dermal		Inhalation		Total ELCR	%
Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC	ABS_{gi}	Kp	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR		Contribution
1,1,1-TRICHLOROETHANE	D				4.40E-04	1	1.30E-02	6.55E-06		1.73E-07		3.27E-05		0.0E+00	0
ACETONE	D				4.20E-03	1	5.69E-04	6.25E-05		7.21E-08		3.12E-04		0.0E+00	0
CARBON TETRACHLORIDE	B2	1.30E-01	1.30E-01	5.25E-02	3.50E-04	1	1.60E-02	5.21E-06	6.8E-07	1.69E-07	2.2E-08	2.60E-05	**1.4E-06**	**2.1E-06**	95
CHLOROFORM	B2				5.70E-04	1	6.80E-03	8.48E-06		1.17E-07		4.24E-05		0.0E+00	0
METHYLENE CHLORIDE	B2	7.50E-03	7.50E-03	1.65E-03	4.80E-04	1	3.50E-03	7.14E-06	5.4E-08	5.07E-08	3.8E-10	3.57E-05	5.9E-08	1.1E-07	5
P-CYMENE (p-ISOPROPYLT	D				1.60E-04	1	1.40E-01	2.38E-06		6.76E-07		1.19E-05		0.0E+00	0
TOLUENE	D				3.00E-04	1	3.10E-02	4.46E-06		2.81E-07		2.23E-05		0.0E+00	0
Total Risk									7.3E-07		2.2E-08		**1.4E-06**		100
												Total Risk =	**2.2E-06**		

Note:

Cancer WOE Classifications:

Group A: Human carcinogen

Group B (B1, B2): Probable human carcinogen

Group C: Possible human carcinogen

Group D: Not classifiable

Group E: No evidence of carcinogenicity

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

ELCR = Excess Lifetime Cancer Risk

EPC = Exposure Point Concentration

mg/kg-day = milligrams per kilogram per day

SF_d = Dermal Slope Factor

SF_o = Oral Slope Factor

SF_i = Inhalation Slope Factor

WOE = Weight of Evidence

Table C-134
Hypothetical Future Residential Scenario - Potential Noncarcinogenic Risk
AVMA Groundwater - Well AP-3650
Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation		Total HQ	%
Chemical	WOE	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC	ABSgi	Kp	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ		Contribution
1,1,1-TRICHLOROETHANE	D	2.80E-01	2.80E-01	6.30E-01	4.40E-04	1	1.30E-02	1.53E-05	0.00	4.03E-07	0.00	7.63E-05	0.00	0.00018	0
ACETONE	D	1.00E-01	1.00E-01	1.00E-01	4.20E-03	1	5.69E-04	1.46E-04	0.00	1.68E-07	0.00	7.29E-04	0.01	0.0087	4
CARBON TETRACHLORIDE	B2	7.00E-04	7.00E-04	7.00E-04	3.50E-04	1	1.60E-02	1.21E-05	0.02	3.94E-07	0.00	6.07E-05	0.09	0.10	45
CHLOROFORM	B2	1.00E-02	1.00E-02	8.60E-04	5.70E-04	1	6.80E-03	1.98E-05	0.00	2.73E-07	0.00	9.89E-05	0.12	0.12	50
METHYLENE CHLORIDE	B2	6.00E-02	6.00E-02	8.57E-01	4.80E-04	1	3.50E-03	1.67E-05	0.00	1.18E-07	0.00	8.33E-05	0.00	0.00038	0
P-CYMENE (p-ISOPROPYLTOLUEN	D	1.00E-01	1.00E-01	1.10E-01	1.60E-04	1	1.40E-01	5.55E-06	0.00	1.58E-06	0.00	2.78E-05	0.00	0.00032	0
TOLUENE	D	2.00E-01	2.00E-01	1.10E-01	3.00E-04	1	3.10E-02	1.04E-05	0.00	6.55E-07	0.00	5.21E-05	0.00	0.00053	0
Hazard Index									0.02		0.001		0.21		100
												Total HI =	0.23		

Note:
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
EPC = Exposure Point Concentration
HI = Hazard Index
HQ = Hazard Quotient;
mg/kg-day = milligrams per kilogram per day
RfC = Reference Concentration
RfD_d = Dermal Reference Dose;
RfD_o = Oral Reference Dose
RfD_i = Inhalation Reference Dose

Table C-135

Hypothetical Future Residential Scenario - Potential Excess Lifetime Cancer Risk

AVMA Groundwater - Well AP-3772

Fort Richardson - Operable Unit E

									Ingestion		Dermal		Inhalation		Total ELCR	%
Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC	ABS_{gi}	Kp	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR		Contribution
CHLOROMETHANE	--	1.30E-02	1.30E-02	6.30E-03	1.80E-03	1	3.30E-03	2.68E-05	3.5E-07	1.79E-07	2.3E-09	1.34E-04	8.4E-07	**1.2E-06**	51
METHYLENE CHLORIDE	B2	7.50E-03	7.50E-03	1.65E-03	4.80E-03	1	3.50E-03	7.14E-05	5.4E-07	5.07E-07	3.8E-09	3.57E-04	5.9E-07	**1.1E-06**	49
Total Risk									8.8E-07		6.1E-09		**1.4E-06**		100
												Total Risk =	**2.3E-06**		

Note:

Cancer WOE Classifications:

Group A: Human carcinogen

Group B (B1, B2): Probable human carcinogen

Group C: Possible human carcinogen

Group D: Not classifiable

Group E: No evidence of carcinogenicity

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

ELCR = Excess Lifetime Cancer Risk

EPC = Exposure Point Concentration

mg/kg-day = milligrams per kilogram per day

SF_d = Dermal Slope Factor

SF_o = Oral Slope Factor

SF_i = Inhalation Slope Factor

WOE = Weight of Evidence

Table C-136
Hypothetical Future Residential Scenario - Potential Noncarcinogenic Risk
AVMA Groundwater - Well AP-3772
Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation		Total HQ	%
Chemical	WOE	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC	ABSgi	Kp	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ		Contribution
CHLOROMETHANE	--			8.60E-02	1.80E-03	1	3.30E-03	6.25E-05		4.18E-07		3.12E-04	0	0.0036	49
METHYLENE CHLORIDE	B2	6.00E-02	6.00E-02	8.57E-01	4.80E-03	1	3.50E-03	1.67E-04	0.00	1.18E-06	0.00	8.33E-04	0	0.0038	51
Hazard Index									0.0028		0.000020		0.0046		100
												Total HI =	0.0074		

Note:
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
EPC = Exposure Point Concentration
HI = Hazard Index
HQ = Hazard Quotient;
mg/kg-day = milligrams per kilogram per day
RfC = Reference Concentration
RfD_d = Dermal Reference Dose;
RfD_o = Oral Reference Dose
RfD_i = Inhalation Reference Dose

Table C-137

Hypothetical Future Residential Scenario - Potential Excess Lifetime Cancer Risk

AVMA Groundwater - Well AP-3774

Fort Richardson - Operable Unit E

									Ingestion		Dermal		Inhalation		Total ELCR	%
Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC	ABS_{gi}	Kp	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR		Contribution
2-METHYLNAPHTHALENE	--				3.30E-05	1	1.42E-02	4.91E-07		1.41E-08		2.45E-06		0.0E+00	0
ACENAPHTHENE	D				2.20E-05	1	1.33E-01	3.27E-07		8.83E-08		1.64E-06		0.0E+00	0
DI-n-BUTYL PHTHALATE	D				1.80E-03	1	2.40E-02	2.68E-05		1.30E-06		1.34E-04		0.0E+00	0
FLUORENE	D				2.20E-05	1	1.70E-01	3.27E-07		1.13E-07		1.64E-06		0.0E+00	0
CARBON TETRACHLORIDE	B2	1.30E-01	1.30E-01	5.25E-02	1.80E-04	1	1.60E-02	2.68E-06	3.5E-07	8.69E-08	1.1E-08	1.34E-05	7.0E-07	**1.1E-06**	72
CHLOROFORM	B2				3.60E-04	1	6.80E-03	5.36E-06		7.39E-08		2.68E-05		0.0E+00	0
NAPHTHALENE	C				4.30E-05	1	4.70E-02	6.40E-07		6.10E-08		3.20E-06		0.0E+00	0
TETRACHLOROETHYLENE	C-B2	5.20E-02	5.20E-02	1.00E-02	2.60E-04	1	3.30E-02	3.87E-06	2.0E-07	2.59E-07	1.3E-08	1.93E-05	1.9E-07	4.1E-07	28
Total Risk									5.5E-07		2.5E-08		9.0E-07		100
												Total Risk =	**1.5E-06**		

Note:

Cancer WOE Classifications:

Group A: Human carcinogen

Group B (B1, B2): Probable human carcinogen

Group C: Possible human carcinogen

Group D: Not classifiable

Group E: No evidence of carcinogenicity

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

ELCR = Excess Lifetime Cancer Risk

EPC = Exposure Point Concentration

mg/kg-day = milligrams per kilogram per day

SF_d = Dermal Slope Factor

SF_o = Oral Slope Factor

SF_i = Inhalation Slope Factor

WOE = Weight of Evidence

Table C-138

Hypothetical Future Residential Scenario - Potential Noncarcinogenic Risk

AVMA Groundwater - Well AP-3774

Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation		Total HQ	%
Chemical	WOE	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC	ABSgi	Kp	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ		Contribution
2-METHYLNAPHTHALENE	--	9.00E-03	9.00E-03		3.30E-05	1	1.42E-02	1.15E-06	0.00	3.30E-08	0.00	5.73E-06		0.00013	0
ACENAPHTHENE	D	6.00E-02	6.00E-02		2.20E-05	1	1.33E-01	7.64E-07	0.00	2.06E-07	0.00	3.82E-06		0.000016	0
DI-n-BUTYL PHTHALATE	D	1.00E-01	1.00E-01		1.80E-03	1	2.40E-02	6.25E-05	0.00	3.04E-06	0.00	3.12E-04		0.00066	0
FLUORENE	D	4.00E-02	4.00E-02		2.20E-05	1	1.70E-01	7.64E-07	0.00	2.63E-07	0.00	3.82E-06		0.000026	0
CARBON TETRACHLORIDE	B2	7.00E-04	7.00E-04	7.00E-04	1.80E-04	1	1.60E-02	6.25E-06	0.01	2.03E-07	0.00	3.12E-05	0.04	0.054	39
CHLOROFORM	B2	1.00E-02	1.00E-02	8.60E-04	3.60E-04	1	6.80E-03	1.25E-05	0.00	1.72E-07	0.00	6.25E-05	0.07	0.074	53
NAPHTHALENE	C	2.00E-02	2.00E-02	8.57E-04	4.30E-05	1	4.70E-02	1.49E-06	0.00	1.42E-07	0.00	7.46E-06	0.01	0.0088	6
TETRACHLOROETHYLENE (PCE)	C-B2	1.00E-02	1.00E-02	1.70E-01	2.60E-04	1	3.30E-02	9.03E-06	0.00	6.04E-07	0.00	4.51E-05	0.00	0.0012	1
Hazard Index									0.012		0.00042		0.13		100
												Total HI =	0.14		

Note:

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

EPC = Exposure Point Concentration

HI = Hazard Index

HQ = Hazard Quotient;

mg/kg-day = milligrams per kilogram per day

RfC = Reference Concentration

RfD_d = Dermal Reference Dose;

RfD_o = Oral Reference Dose

RfD_i = Inhalation Reference Dose

Table C-139

Hypothetical Future Residential Scenario - Potential Excess Lifetime Cancer Risk

AVMA Groundwater - Well AP-3775

Fort Richardson - Operable Unit E

									Ingestion		Dermal		Inhalation		Total ELCR	%
Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC	ABS_{gi}	Kp	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR		Contribution
METHYLENE CHLORIDE	B2	7.50E-03	7.50E-03	1.65E-03	2.30E-03	1	3.50E-03	3.42E-05	2.6E-07	2.43E-07	1.8E-09	1.71E-04	2.8E-07	5.4E-07	36
TETRACHLOROETHYLENE	C-B2	5.20E-02	5.20E-02	1.00E-02	6.10E-04	1	3.30E-02	9.07E-06	4.7E-07	6.07E-07	3.2E-08	4.54E-05	4.5E-07	9.6E-07	64
TOLUENE	D				3.50E-04	1	3.10E-02	5.21E-06		3.27E-07		2.60E-05			0
Total Risk									7.3E-07		3.3E-08		7.3E-07		100
												Total Risk =	**1.5E-06**		

Note:

Cancer WOE Classifications:

Group A: Human carcinogen

Group B (B1, B2): Probable human carcinogen

Group C: Possible human carcinogen

Group D: Not classifiable

Group E: No evidence of carcinogenicity

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

ELCR = Excess Lifetime Cancer Risk

EPC = Exposure Point Concentration

mg/kg-day = milligrams per kilogram per day

SF_d = Dermal Slope Factor

SF_o = Oral Slope Factor

SF_i = Inhalation Slope Factor

WOE = Weight of Evidence

Table C-140
Hypothetical Future Residential Scenario - Potential Noncarcinogenic Risk
AVMA Groundwater - Well AP-3775
Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation		Total HQ	%
Chemical	WOE	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC	ABSgi	Kp	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ		Contribution
METHYLENE CHLORIDE	B2	6.00E-02	6.00E-02	8.57E-01	2.30E-03	1	3.50E-03	7.98E-05	0.00	5.67E-07	0.00	3.99E-04	0.00	0.0018	34
TETRACHLOROETHYLENE (PCE)	C-B2	1.00E-02	1.00E-02	1.70E-01	6.10E-04	1	3.30E-02	2.12E-05	0.00	1.42E-06	0.00	1.06E-04	0.00	0.0029	54
TOLUENE	D	2.00E-01	2.00E-01	1.10E-01	3.50E-04	1	3.10E-02	1.21E-05	0.00	7.64E-07	0.00	6.07E-05	0.00	0.00062	12
Hazard Index									0.0035		0.00016		0.0016		100
												Total HI =	0.0053		

Note:
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
EPC = Exposure Point Concentration
HI = Hazard Index
HQ = Hazard Quotient;
mg/kg-day = milligrams per kilogram per day
RfC = Reference Concentration
RfD_d = Dermal Reference Dose;
RfD_o = Oral Reference Dose
RfD_i = Inhalation Reference Dose

Table C-141

Hypothetical Future Residential Scenario - Potential Excess Lifetime Cancer Risk

AVMA Groundwater - Well AP-3776

Fort Richardson - Operable Unit E

									Ingestion		Dermal		Inhalation		Total ELCR	%
Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC	ABS_{gi}	Kp	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR		Contribution
CHROMIUM	A			2.94E+02	8.50E-02	0	2.00E-03	1.26E-03		5.13E-06		6.32E-03		0.0E+00	0
BENZYL ALCOHOL	--				1.05E-02	1	2.52E-03	1.55E-04		7.95E-07		7.77E-04		0.0E+00	0
CARBON TETRACHLORIDE	B2	1.30E-01	1.30E-01	5.25E-02	3.50E-04	1	1.60E-02	5.21E-06	6.8E-07	1.69E-07	2.2E-08	2.60E-05	**1.4E-06**	**2.1E-06**	66
CHLOROFORM	B2				2.00E-04	1	6.80E-03	2.98E-06		4.10E-08		1.49E-05		0.0E+00	0
TETRACHLOROETHYLENE	C-B2	5.20E-02	5.20E-02	1.00E-02	6.75E-04	1	3.30E-02	1.00E-05	5.2E-07	6.72E-07	3.5E-08	5.02E-05	5.0E-07	**1.1E-06**	34
TOLUENE	D				1.70E-04	1	3.10E-02	2.53E-06		1.59E-07		1.26E-05		0.0E+00	0
Total Risk									**1.2E-06**		5.7E-08		**1.9E-06**		100
													Total Risk =	**3.1E-06**	

Note:

Cancer WOE Classifications:

Group A: Human carcinogen

Group B (B1, B2): Probable human carcinogen

Group C: Possible human carcinogen

Group D: Not classifiable

Group E: No evidence of carcinogenicity

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

ELCR = Excess Lifetime Cancer Risk

EPC = Exposure Point Concentration

mg/kg-day = milligrams per kilogram per day

SF_d = Dermal Slope Factor

SF_o = Oral Slope Factor

SF_i = Inhalation Slope Factor

WOE = Weight of Evidence

Table C-142

Hypothetical Future Residential Scenario - Potential Noncarcinogenic Risk

AVMA Groundwater - Well AP-3776

Fort Richardson - Operable Unit E

		RfD_o	RfD_d	RfD_i				Ingestion		Dermal		Inhalation		Total HQ	%
								CDI		CDI		CDI			
Chemical	**WOE**	**(mg/kg-day)**	**(mg/kg-day)**	**(mg/kg-day)**	**EPC**	**ABSgi**	**Kp**	**(mg/kg-day)**	**HQ**	**(mg/kg-day)**	**HQ**	**(mg/kg-day)**	**HQ**		**Contribution**
CHROMIUM	A	3.00E-03	7.50E-05	2.20E-06	8.50E-02	0	2.00E-03	2.95E-03	0.98	1.20E-05	0.16	1.47E-02		**1.1**	88
BENZYL ALCOHOL	--	3.00E-01	3.00E-01		1.05E-02	1	2.52E-03	3.63E-04	0.00	1.85E-06	0.00	1.81E-03		0.0012	0
CARBON TETRACHLORIDE	B2	7.00E-04	7.00E-04	7.00E-04	3.50E-04	1	1.60E-02	1.21E-05	0.02	3.94E-07	0.00	6.07E-05	0.09	0.10	8
CHLOROFORM	B2	1.00E-02	1.00E-02	8.60E-04	2.00E-04	1	6.80E-03	6.94E-06	0.00	9.58E-08	0.00	3.47E-05	0.04	0.041	3
TETRACHLOROETHYLENE (PCE)	C-B2	1.00E-02	1.00E-02	1.70E-01	6.75E-04	1	3.30E-02	2.34E-05	0.00	1.57E-06	0.00	1.17E-04	0.00	0.0032	0
TOLUENE	D	2.00E-01	2.00E-01	1.10E-01	1.70E-04	1	3.10E-02	5.90E-06	0.00	3.71E-07	0.00	2.95E-05	0.00	0.00030	0
Hazard Index									**1.0**		0.16		0.13		100
												Total HI =	**1.3**		

Note:

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

EPC = Exposure Point Concentration

HI = Hazard Index

HQ = Hazard Quotient;

mg/kg-day = milligrams per kilogram per day

RfC = Reference Concentration

RfD_d = Dermal Reference Dose;

RfD_o = Oral Reference Dose

RfD_i = Inhalation Reference Dose

Table C-143

Hypothetical Future Residential Scenario - Potential Excess Lifetime Cancer Risk

AVMA Groundwater - Well AP-3789

Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation		Total ELCR	%
Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC	ABS_{gi}	Kp	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR		Contribution
TETRACHLOROETHYLENE	C-B2	5.20E-02	5.20E-02	1.00E-02	8.30E-03	1	3.30E-02	1.23E-04	**6.4E-06**	8.27E-06	4.3E-07	6.17E-04	**6.2E-06**	**1.3E-05**	100
TOLUENE	D				2.00E-04	1	3.10E-02	2.98E-06		1.87E-07		1.49E-05		0.0E+00	0
Total Risk									**6.4E-06**		4.3E-07		**6.2E-06**		100
												Total Risk =	**1.3E-05**		

Note:
Cancer WOE Classifications:
Group A: Human carcinogen
Group B (B1, B2): Probable human carcinogen
Group C: Possible human carcinogen
Group D: Not classifiable
Group E: No evidence of carcinogenicity
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
ELCR = Excess Lifetime Cancer Risk
EPC = Exposure Point Concentration
mg/kg-day = milligrams per kilogram per day
SF_d = Dermal Slope Factor
SF_o = Oral Slope Factor
SF_i = Inhalation Slope Factor
WOE = Weight of Evidence

Table C-144
Hypothetical Future Residential Scenario - Potential Noncarcinogenic Risk
AVMA Groundwater - Well AP-3789
Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation		Total HQ	%
Chemical	WOE	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC	ABSgi	Kp	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ		Contribution
TETRACHLOROETHYLENE (PCE)	C-B2	1.00E-02	1.00E-02	1.70E-01	8.30E-03	1	3.30E-02	2.88E-04	0.03	1.93E-05	0.00	1.44E-03	0.01	0.039	99
TOLUENE	D	2.00E-01	2.00E-01	1.10E-01	2.00E-04	1	3.10E-02	6.94E-06	0.00	4.37E-07	0.00	3.47E-05	0.00	0.00035	1
Hazard Index									0.03		0.002		0.0088		100
												Total HI =	0.04		

Note:
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
EPC = Exposure Point Concentration
HI = Hazard Index
HQ = Hazard Quotient;
mg/kg-day = milligrams per kilogram per day
RfC = Reference Concentration
RfD_d = Dermal Reference Dose;
RfD_o = Oral Reference Dose
RfD_i = Inhalation Reference Dose

Table C-145

Hypothetical Future Residential Scenario - Potential Excess Lifetime Cancer Risk

AVMA Groundwater - Well AP-3790

Fort Richardson - Operable Unit E

		SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$				Ingestion		Dermal		Inhalation		Total ELCR	%
Chemical	**WOE**				**EPC**	**ABSgi**	**Kp**	**CDI (mg/kg-day)**	**ELCR**	**CDI (mg/kg-day)**	**ELCR**	**CDI (mg/kg-day)**	**ELCR**		**Contribution**
DI-n-BUTYL PHTHALATE	D				2.90E-03	1	2.40E-02	4.31E-05		2.10E-06		2.16E-04		0.0E+00	#DIV/0!
CHLOROFORM	B2				1.30E-03	1	6.80E-03	1.93E-05		2.67E-07		9.67E-05		0.0E+00	#DIV/0!
TOLUENE	D				3.30E-04	1	3.10E-02	4.91E-06		3.09E-07		2.45E-05		0.0E+00	#DIV/0!
Total Risk									0.0E+00		0.0E+00		0.0E+00		#DIV/0!
													Total Risk =	0.0E+00	

Note:

Cancer WOE Classifications:

- Group A: Human carcinogen
- Group B (B1, B2): Probable human carcinogen
- Group C: Possible human carcinogen
- Group D: Not classifiable
- Group E: No evidence of carcinogenicity

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

ELCR = Excess Lifetime Cancer Risk

EPC = Exposure Point Concentration

mg/kg-day = milligrams per kilogram per day

SF_d = Dermal Slope Factor

SF_o = Oral Slope Factor

SF_i = Inhalation Slope Factor

WOE = Weight of Evidence

Table C-146

Hypothetical Future Residential Scenario - Potential Noncarcinogenic Risk

AVMA Groundwater - Well AP-3790

Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation		Total HQ	%
Chemical	WOE	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC	ABS_{gi}	Kp	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ		Contribution
DI-n-BUTYL PHTHALATE	D	1.00E-01	1.00E-01		2.90E-03	1	2.40E-02	1.01E-04	0.00	4.90E-06	0.00	5.03E-04		0.0011	0
CHLOROFORM	B2	1.00E-02	1.00E-02	8.60E-04	1.30E-03	1	6.80E-03	4.51E-05	0.00	6.22E-07	0.00	2.26E-04	0.26	0.27	99
TOLUENE	D	2.00E-01	2.00E-01	1.10E-01	3.30E-04	1	3.10E-02	1.15E-05	0.00	7.20E-07	0.00	5.73E-05	0.00	0.00058	0
Hazard Index									0.0056		0.00011		0.26		100
												Total HI =	0.27		

Note:

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

EPC = Exposure Point Concentration

HI = Hazard Index

HQ = Hazard Quotient;

mg/kg-day = milligrams per kilogram per day

RfC = Reference Concentration

RfD_d = Dermal Reference Dose;

RfD_o = Oral Reference Dose

RfD_i = Inhalation Reference Dose

Table C-147

Hypothetical Future Residential Scenario - Potential Excess Lifetime Cancer Risk

AVMA Groundwater - Well AP-3870

Fort Richardson - Operable Unit E

									Ingestion		Dermal		Inhalation		Total ELCR	%
Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC	ABS_{gi}	Kp	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR		Contribution
DI-n-BUTYL PHTHALATE	D				3.90E-03	1	2.40E-02	5.80E-05		2.82E-06		2.90E-04		0.0E+00	0
CARBON TETRACHLORIDE	B2	1.30E-01	1.30E-01	5.25E-02	2.50E-04	1	1.60E-02	3.72E-06	4.8E-07	1.21E-07	1.6E-08	1.86E-05	9.8E-07	**1.5E-06**	100
CHLOROFORM	B2				3.70E-04	1	6.80E-03	5.50E-06		7.59E-08		2.75E-05		0.0E+00	0
Total Risk									4.8E-07		1.6E-08		9.8E-07		100
													Total Risk =	**1.5E-06**	

Note:

Cancer WOE Classifications:

Group A: Human carcinogen

Group B (B1, B2): Probable human carcinogen

Group C: Possible human carcinogen

Group D: Not classifiable

Group E: No evidence of carcinogenicity

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

ELCR = Excess Lifetime Cancer Risk

EPC = Exposure Point Concentration

mg/kg-day = milligrams per kilogram per day

SF_d = Dermal Slope Factor

SF_o = Oral Slope Factor

SF_i = Inhalation Slope Factor

WOE = Weight of Evidence

Table C-148

Hypothetical Future Residential Scenario - Potential Noncarcinogenic Risk

AVMA Groundwater - Well AP-3870

Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation		Total HQ	%
Chemical	WOE	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC	ABSgi	Kp	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ		Contribution
DI-n-BUTYL PHTHALATE	D	1.00E-01	1.00E-01		3.90E-03	1	2.40E-02	1.35E-04	0.00	6.59E-06	0.00	6.77E-04		0.0014	1
CARBON TETRACHLORIDE	B2	7.00E-04	7.00E-04	7.00E-04	2.50E-04	1	1.60E-02	8.68E-06	0.01	2.82E-07	0.00	4.34E-05	0.06	0.075	49
CHLOROFORM	B2	1.00E-02	1.00E-02	8.60E-04	3.70E-04	1	6.80E-03	1.28E-05	0.00	1.77E-07	0.00	6.42E-05	0.07	0.076	50
Hazard Index									0.015		0.00049		0.14		100
												Total HI =	0.15		

Note:

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

EPC = Exposure Point Concentration

HI = Hazard Index

HQ = Hazard Quotient;

mg/kg-day = milligrams per kilogram per day

RfC = Reference Concentration

RfD_d = Dermal Reference Dose;

RfD_o = Oral Reference Dose

RfD_i = Inhalation Reference Dose

Table C-149

Hypothetical Future Residential Scenario - Potential Excess Lifetime Cancer Risk

AVMA Groundwater - Well AP-3871

Fort Richardson - Operable Unit E

									Ingestion		Dermal		Inhalation		Total ELCR	%
Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC	ABSgi	Kp	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR		Contribution
ANTIMONY	--				1.60E-02	0	1.00E-03	2.38E-04		4.83E-07		1.19E-03		0.0E+00	0
bis(2-ETHYLHEXYL) PHTHAI	--	1.40E-02	1.40E-02		2.00E-03	1	2.50E-02	2.98E-05	4.2E-07	1.51E-06	2.1E-08	1.49E-04		4.4E-07	11
DI-n-BUTYL PHTHALATE	D				7.95E-03	1	2.40E-02	1.18E-04		5.76E-06		5.91E-04		0.0E+00	0
CARBON TETRACHLORIDE	B2	1.30E-01	1.30E-01	5.25E-02	5.65E-04	1	1.60E-02	8.41E-06	**1.1E-06**	2.73E-07	3.5E-08	4.20E-05	**2.2E-06**	**3.3E-06**	83
CHLOROFORM	B2				3.60E-03	1	6.80E-03	5.36E-05		7.39E-07		2.68E-04		0.0E+00	0
CHLOROMETHANE	--	1.30E-02	1.30E-02	6.30E-03	2.10E-04	1	3.30E-03	3.12E-06	4.1E-08	2.09E-08	2.7E-10	1.56E-05	9.8E-08	1.4E-07	3
METHYLENE CHLORIDE	B2	7.50E-03	7.50E-03	1.65E-03	5.10E-04	1	3.50E-03	7.59E-06	5.7E-08	5.39E-08	4.0E-10	3.79E-05	6.2E-08	1.2E-07	3
TOLUENE	D				3.00E-04	1	3.10E-02	4.46E-06		2.81E-07		2.23E-05		0.0E+00	0
Total Risk									**1.6E-06**		5.7E-08		**2.4E-06**		100
													Total Risk =	**4.0E-06**	

Note:

Cancer WOE Classifications:

Group A: Human carcinogen

Group B (B1, B2): Probable human carcinogen

Group C: Possible human carcinogen

Group D: Not classifiable

Group E: No evidence of carcinogenicity

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

ELCR = Excess Lifetime Cancer Risk

EPC = Exposure Point Concentration

mg/kg-day = milligrams per kilogram per day

SF_d = Dermal Slope Factor

SF_o = Oral Slope Factor

SF_i = Inhalation Slope Factor

WOE = Weight of Evidence

Table C-150
Hypothetical Future Residential Scenario - Potential Noncarcinogenic Risk
AVMA Groundwater - Well AP-3871
Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation		Total HQ	%
Chemical	WOE	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC	ABSgi	Kp	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ		Contribution
ANTIMONY	--	4.00E-04	6.00E-06		1.60E-02	0	1.00E-03	5.55E-04	**1.39**	1.13E-06	0.19	2.78E-03		**1.6**	63
bis(2-ETHYLHEXYL) PHTHALATE	--	2.00E-02	2.00E-02		2.00E-03	1	2.50E-02	6.94E-05	0.00	3.52E-06	0.00	3.47E-04		0.0036	0
DI-n-BUTYL PHTHALATE	D	1.00E-01	1.00E-01		7.95E-03	1	2.40E-02	2.76E-04	0.00	1.34E-05	0.00	1.38E-03		0.0029	0
CARBON TETRACHLORIDE	B2	7.00E-04	7.00E-04	7.00E-04	5.65E-04	1	1.60E-02	1.96E-05	0.03	6.37E-07	0.00	9.80E-05	0.14	0.17	7
CHLOROFORM	B2	1.00E-02	1.00E-02	8.60E-04	3.60E-03	1	6.80E-03	1.25E-04	0.01	1.72E-06	0.00	6.25E-04	0.73	0.74	30
CHLOROMETHANE	--			8.60E-02	2.10E-04	1	3.30E-03	7.29E-06		4.88E-08		3.64E-05	0.00	0.00042	0
METHYLENE CHLORIDE	B2	6.00E-02	6.00E-02	8.57E-01	5.10E-04	1	3.50E-03	1.77E-05	0.00	1.26E-07	0.00	8.85E-05	0.00	0.00040	0
TOLUENE	D	2.00E-01	2.00E-01	1.10E-01	3.00E-04	1	3.10E-02	1.04E-05	0.00	6.55E-07	0.00	5.21E-05	0.00	0.00053	0
Hazard Index									**1.4**		0.19		0.87		100
												Total HI =	**2.5**		

Note:
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
EPC = Exposure Point Concentration
HI = Hazard Index
HQ = Hazard Quotient;
mg/kg-day = milligrams per kilogram per day
RfC = Reference Concentration
RfD_d = Dermal Reference Dose;
RfD_o = Oral Reference Dose
RfD_i = Inhalation Reference Dose

Table C-151

Hypothetical Future Residential Scenario - Potential Excess Lifetime Cancer Risk

AVMA Groundwater - Well AP-3872

Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation		Total ELCR	%
Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC	ABS_{gi}	Kp	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR		Contribution
bis(2-ETHYLHEXYL) PHTHAI	--	1.40E-02	1.40E-02		2.30E-03	1	2.50E-02	3.42E-05	4.8E-07	1.74E-06	2.4E-08	1.71E-04		5.0E-07	88
DI-n-BUTYL PHTHALATE	D				1.10E-02	1	2.40E-02	1.64E-04		7.97E-06		8.18E-04		0.0E+00	0
CHLOROFORM	B2				1.50E-03	1	6.80E-03	2.23E-05		3.08E-07		1.12E-04		0.0E+00	0
CHLOROMETHANE	--	1.30E-02	1.30E-02	6.30E-03	1.00E-04	1	3.30E-03	1.49E-06	1.9E-08	9.96E-09	1.3E-10	7.44E-06	4.7E-08	6.6E-08	12
P-CYMENE (p-ISOPROPYLT	D				1.20E-04	1	1.40E-01	1.79E-06		5.07E-07		8.92E-06		0.0E+00	0
TOLUENE	D				1.80E-04	1	3.10E-02	2.68E-06		1.68E-07		1.34E-05		0.0E+00	0
Total Risk									5.0E-07		2.4E-08		4.7E-08		100
												Total Risk =	5.7E-07		

Note:
Cancer WOE Classifications:
Group A: Human carcinogen
Group B (B1, B2): Probable human carcinogen
Group C: Possible human carcinogen
Group D: Not classifiable
Group E: No evidence of carcinogenicity
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
ELCR = Excess Lifetime Cancer Risk
EPC = Exposure Point Concentration
mg/kg-day = milligrams per kilogram per day
SF_d = Dermal Slope Factor
SF_o = Oral Slope Factor
SF_i = Inhalation Slope Factor
WOE = Weight of Evidence

Table C-152
Hypothetical Future Residential Scenario - Potential Noncarcinogenic Risk
AVMA Groundwater - Well AP-3872
Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation		Total HQ	%
Chemical	WOE	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC	ABSgi	Kp	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ		Contribution
bis(2-ETHYLHEXYL) PHTHALATE	--	2.00E-02	2.00E-02		2.30E-03	1	2.50E-02	7.98E-05	0.00	4.05E-06	0.00	3.99E-04		0.0042	1
DI-n-BUTYL PHTHALATE	D	1.00E-01	1.00E-01		1.10E-02	1	2.40E-02	3.82E-04	0.00	1.86E-05	0.00	1.91E-03		0.0040	1
CHLOROFORM	B2	1.00E-02	1.00E-02	8.60E-04	1.50E-03	1	6.80E-03	5.21E-05	0.01	7.18E-07	0.00	2.60E-04	0.30	0.31	97
CHLOROMETHANE	--			8.60E-02	1.00E-04	1	3.30E-03	3.47E-06		2.32E-08		1.74E-05	0.00	0.00020	0
P-CYMENE (p-ISOPROPYLTOLUEN	D	1.00E-01	1.00E-01	1.10E-01	1.20E-04	1	1.40E-01	4.17E-06	0.00	1.18E-06	0.00	2.08E-05	0.00	0.00024	0
TOLUENE	D	2.00E-01	2.00E-01	1.10E-01	1.80E-04	1	3.10E-02	6.25E-06	0.00	3.93E-07	0.00	3.12E-05	0.00	0.00032	0
Hazard Index									0.01		0.00047		0.30		100
												Total HI =	0.32		

Note:
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
EPC = Exposure Point Concentration
HI = Hazard Index
HQ = Hazard Quotient;
mg/kg-day = milligrams per kilogram per day
RfC = Reference Concentration
RfD_d = Dermal Reference Dose;
RfD_o = Oral Reference Dose
RfD_i = Inhalation Reference Dose

Table C-153

Hypothetical Future Residential Scenario - Potential Excess Lifetime Cancer Risk

AVMA Groundwater - Well AP-3893

Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation		Total ELCR	%
Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC	ABS_{gi}	Kp	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR		Contribution
BENZO(a)PYRENE	B2	7.30E+00	7.30E+00		1.70E-04	1	7.00E-01	2.53E-06	**1.8E-05**	3.59E-06	**2.6E-05**	1.26E-05		**4.5E-05**	27
BENZO(b)FLUORANTHENE	B2	7.30E-01	7.30E-01		2.20E-04	1	7.00E-01	3.27E-06	**2.4E-06**	4.65E-06	**3.4E-06**	1.64E-05		**5.8E-06**	4
BENZO(g,h,i)PERYLENE	--			1.60E+01	2.10E-04	1	2.00E+00	3.12E-06		1.27E-05		1.56E-05		0.0E+00	0
BENZO(k)FLUORANTHENE	B2	7.30E-02	7.30E-02		1.60E-04	1	1.20E+00	2.38E-06	1.7E-07	5.79E-06	4.2E-07	1.19E-05		6.0E-07	0
DIBENZ(a,h)ANTHRACENE	B2	7.30E+00	7.30E+00		2.40E-04	1	1.50E+00	3.57E-06	**2.6E-05**	1.09E-05	**7.9E-05**	1.78E-05		**1.1E-04**	64
INDENO(1,2,3-c,d)PYRENE	B2	7.30E-01	7.30E-01		2.20E-04	1	1.00E+00	3.27E-06	**2.4E-06**	6.64E-06	**4.8E-06**	1.64E-05		**7.2E-06**	4
PHENOL	--				2.20E-03	1	4.30E-03	3.27E-05		2.85E-07		1.64E-04		0.0E+00	0
TOLUENE	D				3.90E-04	1	3.10E-02	5.80E-06		3.65E-07		2.90E-05		0.0E+00	0
Total Risk									**4.9E-05**		**1.1E-04**				100
													Total Risk =	**1.6E-04**	

Note:

Cancer WOE Classifications:

Group A: Human carcinogen

Group B (B1, B2): Probable human carcinogen

Group C: Possible human carcinogen

Group D: Not classifiable

Group E: No evidence of carcinogenicity

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

ELCR = Excess Lifetime Cancer Risk

EPC = Exposure Point Concentration

mg/kg-day = milligrams per kilogram per day

SF_d = Dermal Slope Factor

SF_o = Oral Slope Factor

SF_i = Inhalation Slope Factor

WOE = Weight of Evidence

Table C-154
Hypothetical Future Residential Scenario - Potential Noncarcinogenic Risk
AVMA Groundwater - Well AP-3893
Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation		Total HQ	%
Chemical	WOE	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC	ABSgi	Kp	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ		Contribution
BENZO(a)PYRENE	B2				1.70E-04	1	7.00E-01	5.90E-06		8.38E-06		2.95E-05		0.00	0
BENZO(b)FLUORANTHENE	B2				2.20E-04	1	7.00E-01	7.64E-06		1.08E-05		3.82E-05		0.00	0
BENZO(g,h,i)PERYLENE	--				2.10E-04	1	2.00E+00	7.29E-06		2.96E-05		3.64E-05		0.00	0
BENZO(k)FLUORANTHENE	B2				1.60E-04	1	1.20E+00	5.55E-06		1.35E-05		2.78E-05		0.00	0
DIBENZ(a,h)ANTHRACENE	B2				2.40E-04	1	1.50E+00	8.33E-06		2.53E-05		4.16E-05		0.00	0
INDENO(1,2,3-c,d)PYRENE	B2				2.20E-04	1	1.00E+00	7.64E-06		1.55E-05		3.82E-05		0.00	0
PHENOL	--	6.00E-01	6.00E-01		2.20E-03	1	4.30E-03	7.64E-05	0.00	6.66E-07	0.00	3.82E-04		0.00013	16
TOLUENE	D	2.00E-01	2.00E-01	1.10E-01	3.90E-04	1	3.10E-02	1.35E-05	0.00	8.51E-07	0.00	6.77E-05	0.00	0.00069	84
Hazard Index									0.0002		0.00001		0.00062		100
												Total HI =	0.001		

Note:
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
EPC = Exposure Point Concentration
HI = Hazard Index
HQ = Hazard Quotient;
mg/kg-day = milligrams per kilogram per day
RfC = Reference Concentration
RfD_d = Dermal Reference Dose;
RfD_o = Oral Reference Dose
RfD_i = Inhalation Reference Dose

Table C-155

Hypothetical Future Residential Scenario - Potential Excess Lifetime Cancer Risk

AVMA Groundwater - Well AP-3894

Fort Richardson - Operable Unit E

		SF_o	SF_d	SF_i				Ingestion		Dermal		Inhalation		Total ELCR	%
Chemical	WOE	(mg/kg-day)$^{-1}$	(mg/kg-day)$^{-1}$	(mg/kg-day)$^{-1}$	EPC	ABS_{gi}	Kp	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR		Contribution
CHLOROFORM	B2				1.40E-04	1	6.80E-03	2.08E-06		2.87E-08		1.04E-05		0.0E+00	0
CHLOROMETHANE	--	1.30E-02	1.30E-02	6.30E-03	4.45E-03	1	3.30E-03	6.62E-05	8.6E-07	4.43E-07	5.8E-09	3.31E-04	**2.1E-06**	**3.0E-06**	81
METHYLENE CHLORIDE	B2	7.50E-03	7.50E-03	1.65E-03	3.00E-03	1	3.50E-03	4.46E-05	3.3E-07	3.17E-07	2.4E-09	2.23E-04	3.7E-07	7.0E-07	19
TOLUENE	D				1.80E-04	1	3.10E-02	2.68E-06		1.68E-07		1.34E-05		0.0E+00	0
Total Risk									**1.2E-06**		8.1E-09		**2.5E-06**		100
												Total Risk =	**3.7E-06**		

Note:

Cancer WOE Classifications:

- Group A: Human carcinogen
- Group B (B1, B2): Probable human carcinogen
- Group C: Possible human carcinogen
- Group D: Not classifiable
- Group E: No evidence of carcinogenicity

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

ELCR = Excess Lifetime Cancer Risk

EPC = Exposure Point Concentration

mg/kg-day = milligrams per kilogram per day

SF_d = Dermal Slope Factor

SF_o = Oral Slope Factor

SF_i = Inhalation Slope Factor

WOE = Weight of Evidence

Table C-156

Hypothetical Future Residential Scenario - Potential Noncarcinogenic Risk

AVMA Groundwater - Well AP-3894

Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation		Total HQ	%
Chemical	WOE	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC	ABSgi	Kp	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ		Contribution
CHLOROFORM	B2	1.00E-02	1.00E-02	8.60E-04	1.40E-04	1	6.80E-03	4.86E-06	0.00	6.70E-08	0.00	2.43E-05	0.03	0.029	71
CHLOROMETHANE	--			8.60E-02	4.45E-03	1	3.30E-03	1.54E-04		1.03E-06		7.72E-04	0.01	0.0090	22
METHYLENE CHLORIDE	B2	6.00E-02	6.00E-02	8.57E-01	3.00E-03	1	3.50E-03	1.04E-04	0.00	7.39E-07	0.00	5.21E-04	0.00	0.0024	6
TOLUENE	D	2.00E-01	2.00E-01	1.10E-01	1.80E-04	1	3.10E-02	6.25E-06	0.00	3.93E-07	0.00	3.12E-05	0.00	0.00032	1
Hazard Index									0.002		0.00002		0.038		100
												Total HI =	0.04		

Note:

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

EPC = Exposure Point Concentration

HI = Hazard Index

HQ = Hazard Quotient;

mg/kg-day = milligrams per kilogram per day

RfC = Reference Concentration

RfD_d = Dermal Reference Dose;

RfD_o = Oral Reference Dose

RfD_i = Inhalation Reference Dose

Table C-157

Hypothetical Future Residential Scenario - Potential Excess Lifetime Cancer Risk

AVMA Groundwater - Well AP-3895

Fort Richardson - Operable Unit E

		SF_o	SF_d	SF_i				Ingestion		Dermal		Inhalation		Total ELCR	%
Chemical	WOE	(mg/kg-day)$^{-1}$	(mg/kg-day)$^{-1}$	(mg/kg-day)$^{-1}$	EPC	ABSgi	Kp	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR		Contribution
CHLOROMETHANE	--	1.30E-02	1.30E-02	6.30E-03	2.40E-03	1	3.30E-03	3.57E-05	4.6E-07	2.39E-07	3.1E-09	1.78E-04	**1.1E-06**	**1.6E-06**	75
METHYLENE CHLORIDE	B2	7.50E-03	7.50E-03	1.65E-03	2.25E-03	1	3.50E-03	3.35E-05	2.5E-07	2.38E-07	1.8E-09	1.67E-04	2.8E-07	5.3E-07	25
TOLUENE	D				1.25E-04	1	3.10E-02	1.86E-06		1.17E-07		9.30E-06		0.0E+00	0
Total Risk									7.2E-07		4.9E-09		**1.4E-06**		100
												Total Risk =	**2.1E-06**		

Note:

Cancer WOE Classifications:

Group A: Human carcinogen

Group B (B1, B2): Probable human carcinogen

Group C: Possible human carcinogen

Group D: Not classifiable

Group E: No evidence of carcinogenicity

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

ELCR = Excess Lifetime Cancer Risk

EPC = Exposure Point Concentration

mg/kg-day = milligrams per kilogram per day

SF_d = Dermal Slope Factor

SF_o = Oral Slope Factor

SF_i = Inhalation Slope Factor

WOE = Weight of Evidence

Table C-158

Hypothetical Future Residential Scenario - Potential Noncarcinogenic Risk

AVMA Groundwater - Well AP-3895

Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation		Total HQ	%
		RfD_o	RfD_d	RfD_i				CDI		CDI		CDI			
Chemical	**WOE**	**(mg/kg-day)**	**(mg/kg-day)**	**(mg/kg-day)**	**EPC**	**ABSgi**	**Kp**	**(mg/kg-day)**	**HQ**	**(mg/kg-day)**	**HQ**	**(mg/kg-day)**	**HQ**		**Contribution**
CHLOROMETHANE	--			8.60E-02	2.40E-03	1	3.30E-03	8.33E-05		5.58E-07		4.16E-04	0.00	0.0048	71
METHYLENE CHLORIDE	B2	6.00E-02	6.00E-02	8.57E-01	2.25E-03	1	3.50E-03	7.81E-05	0.00	5.54E-07	0.00	3.90E-04	0.00	0.0018	26
TOLUENE	D	2.00E-01	2.00E-01	1.10E-01	1.25E-04	1	3.10E-02	4.34E-06	0.00	2.73E-07	0.00	2.17E-05	0.00	0.00022	3
Hazard Index									0.001		0.000011		0.0055		100
												Total HI =	0.007		

Note:

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

EPC = Exposure Point Concentration

HI = Hazard Index

HQ = Hazard Quotient;

mg/kg-day = milligrams per kilogram per day

RfC = Reference Concentration

RfD_d = Dermal Reference Dose;

RfD_o = Oral Reference Dose

RfD_i = Inhalation Reference Dose

Table C-159

Hypothetical Future Residential Scenario - Potential Excess Lifetime Cancer Risk

AVMA Groundwater - Well AP-3896

Fort Richardson - Operable Unit E

		SF_o	SF_d	SF_i				Ingestion		Dermal		Inhalation		Total ELCR	%
Chemical	WOE	(mg/kg-day)$^{-1}$	(mg/kg-day)$^{-1}$	(mg/kg-day)$^{-1}$	EPC	ABSgi	Kp	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR		Contribution
ARSENIC	A	1.50E+00	1.50E+00	1.51E+01	3.90E-02	1	1.00E-03	5.80E-04	**8.7E-04**	1.18E-06	**1.8E-06**	2.90E-03		**8.7E-04**	100
TOLUENE	D				3.10E-04	1	3.10E-02	4.61E-06		2.90E-07		2.31E-05		0.0E+00	0
Total Risk									**8.7E-04**		**1.8E-06**				100
													Total Risk =	**8.7E-04**	

Note:

Cancer WOE Classifications:

Group A: Human carcinogen

Group B (B1, B2): Probable human carcinogen

Group C: Possible human carcinogen

Group D: Not classifiable

Group E: No evidence of carcinogenicity

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

ELCR = Excess Lifetime Cancer Risk

EPC = Exposure Point Concentration

mg/kg-day = milligrams per kilogram per day

SF_d = Dermal Slope Factor

SF_o = Oral Slope Factor

SF_i = Inhalation Slope Factor

WOE = Weight of Evidence

Table C-160
Hypothetical Future Residential Scenario - Potential Noncarcinogenic Risk
AVMA Groundwater - Well AP-3896
Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation		Total HQ	%
Chemical	WOE	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC	ABSgi	Kp	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ		Contribution
ARSENIC	A	3.00E-04	3.00E-04		3.90E-02	1	1.00E-03	1.35E-03	**4.51**	2.75E-06	0.01	6.77E-03		**4.5**	100
TOLUENE	D	2.00E-01	2.00E-01	1.10E-01	3.10E-04	1	3.10E-02	1.08E-05	0.00	6.77E-07	0.00	5.38E-05	0.00	0.00055	0
Hazard Index									**4.5**		0.009		0.00049		100
												Total HI =	**4.5**		

Note:
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
EPC = Exposure Point Concentration
HI = Hazard Index
HQ = Hazard Quotient;
mg/kg-day = milligrams per kilogram per day
RfC = Reference Concentration
RfD_d = Dermal Reference Dose;
RfD_o = Oral Reference Dose
RfD_i = Inhalation Reference Dose

Table C-161

Hypothetical Future Residential Scenario - Potential Excess Lifetime Cancer Risk

AVMA Groundwater - Well AP-4154

Fort Richardson - Operable Unit E

									Ingestion		Dermal		Inhalation		Total ELCR	%
Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC	ABS_{gi}	Kp	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR		Contribution
DI-n-BUTYL PHTHALATE	D				2.70E-03	1	2.40E-02	4.02E-05		1.96E-06		2.01E-04		0.0E+00	0
CHLOROMETHANE	--	1.30E-02	1.30E-02	6.30E-03	1.90E-04	1	3.30E-03	2.83E-06	3.7E-08	1.89E-08	2.5E-10	1.41E-05	8.9E-08	1.3E-07	43
METHYLENE CHLORIDE	B2	7.50E-03	7.50E-03	1.65E-03	7.00E-04	1	3.50E-03	1.04E-05	7.8E-08	7.39E-08	5.5E-10	5.21E-05	8.6E-08	1.6E-07	57
TOLUENE	D				2.40E-04	1	3.10E-02	3.57E-06		2.25E-07		1.78E-05		0.0E+00	0
Total Risk									1.1E-07		8.0E-10		1.7E-07		100
												Total Risk =	2.9E-07		

Note:

Cancer WOE Classifications:

- Group A: Human carcinogen
- Group B (B1, B2): Probable human carcinogen
- Group C: Possible human carcinogen
- Group D: Not classifiable
- Group E: No evidence of carcinogenicity

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

ELCR = Excess Lifetime Cancer Risk

EPC = Exposure Point Concentration

mg/kg-day = milligrams per kilogram per day

SF_d = Dermal Slope Factor

SF_o = Oral Slope Factor

SF_i = Inhalation Slope Factor

WOE = Weight of Evidence

Table C-162

Hypothetical Future Residential Scenario - Potential Noncarcinogenic Risk

AVMA Groundwater - Well AP-4154

Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation		Total HQ	%
Chemical	WOE	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC	ABSgi	Kp	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ		Contribution
DI-n-BUTYL PHTHALATE	D	1.00E-01	1.00E-01		2.70E-03	1	2.40E-02	9.37E-05	0.00	4.56E-06	0.00	4.68E-04		0.0010	42
CHLOROMETHANE	--			8.60E-02	1.90E-04	1	3.30E-03	6.60E-06		4.41E-08		3.30E-05	0.00	0.00038	16
METHYLENE CHLORIDE	B2	6.00E-02	6.00E-02	8.57E-01	7.00E-04	1	3.50E-03	2.43E-05	0.00	1.73E-07	0.00	1.21E-04	0.00	0.00055	23
TOLUENE	D	2.00E-01	2.00E-01	1.10E-01	2.40E-04	1	3.10E-02	8.33E-06	0.00	5.24E-07	0.00	4.16E-05	0.00	0.00042	18
Hazard Index									0.001		0.00005		0.00090		100
												Total HI =	0.00		

Note:

ABS_d = Dermal Absorption Factor

ABS_{GI} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

EPC = Exposure Point Concentration

HI = Hazard Index

HQ = Hazard Quotient;

mg/kg-day = milligrams per kilogram per day

RfC = Reference Concentration

RfD_d = Dermal Reference Dose;

RfD_o = Oral Reference Dose

RfD_i = Inhalation Reference Dose

Table C-163

Hypothetical Future Residential Scenario - Potential Excess Lifetime Cancer Risk

AVMA Groundwater - Well AP-4155

Fort Richardson - Operable Unit E

									Ingestion		Dermal		Inhalation		Total ELCR	%
Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC	ABS_{gi}	Kp	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR		Contribution
CHROMIUM	A			2.94E+02	4.20E-02	0	2.00E-03	6.25E-04		2.53E-06		3.12E-03		0.0E+00	0
DI-n-BUTYL PHTHALATE	D				2.30E-03	1	2.40E-02	3.42E-05		1.67E-06		1.71E-04		0.0E+00	0
1,1,1-TRICHLOROETHANE	D				1.10E-03	1	1.30E-02	1.64E-05		4.32E-07		8.18E-05		0.0E+00	0
CHLOROMETHANE	--	1.30E-02	1.30E-02	6.30E-03	1.50E-04	1	3.30E-03	2.23E-06	2.9E-08	1.49E-08	1.9E-10	1.12E-05	7.0E-08	9.9E-08	30
METHYLENE CHLORIDE	B2	7.50E-03	7.50E-03	1.65E-03	1.00E-03	1	3.50E-03	1.49E-05	1.1E-07	1.06E-07	7.9E-10	7.44E-05	1.2E-07	2.3E-07	70
TOLUENE	D				3.50E-04	1	3.10E-02	5.21E-06		3.27E-07		2.60E-05		0.0E+00	0
Total Risk									1.4E-07		9.9E-10		1.9E-07		100
												Total Risk =	3.3E-07		

Note:
Cancer WOE Classifications:
Group A: Human carcinogen
Group B (B1, B2): Probable human carcinogen
Group C: Possible human carcinogen
Group D: Not classifiable
Group E: No evidence of carcinogenicity
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
ELCR = Excess Lifetime Cancer Risk
EPC = Exposure Point Concentration
mg/kg-day = milligrams per kilogram per day
SF_d = Dermal Slope Factor
SF_o = Oral Slope Factor
SF_i = Inhalation Slope Factor
WOE = Weight of Evidence

Table C-164
Hypothetical Future Residential Scenario - Potential Noncarcinogenic Risk
AVMA Groundwater - Well AP-4155
Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation		Total HQ	%
		RfD_o	RfD_d	RfD_i				CDI		CDI		CDI			
Chemical	**WOE**	**(mg/kg-day)**	**(mg/kg-day)**	**(mg/kg-day)**	**EPC**	**ABSgi**	**Kp**	**(mg/kg-day)**	**HQ**	**(mg/kg-day)**	**HQ**	**(mg/kg-day)**	**HQ**		**Contribution**
CHROMIUM	A	3.00E-03	7.50E-05	2.20E-06	4.20E-02	0	2.00E-03	1.46E-03	0.49	5.91E-06	0.08	7.29E-03		0.56	99
DI-n-BUTYL PHTHALATE	D	1.00E-01	1.00E-01		2.30E-03	1	2.40E-02	7.98E-05	0.00	3.89E-06	0.00	3.99E-04		0.00084	0
1,1,1-TRICHLOROETHANE	D	2.80E-01	2.80E-01	6.30E-01	1.10E-03	1	1.30E-02	3.82E-05	0.00	1.01E-06	0.00	1.91E-04	0.00	0.00044	0
CHLOROMETHANE	--			8.60E-02	1.50E-04	1	3.30E-03	5.21E-06		3.49E-08		2.60E-05	0.00	0.00030	0
METHYLENE CHLORIDE	B2	6.00E-02	6.00E-02	8.57E-01	1.00E-03	1	3.50E-03	3.47E-05	0.00	2.46E-07	0.00	1.74E-04	0.00	0.00079	0
TOLUENE	D	2.00E-01	2.00E-01	1.10E-01	3.50E-04	1	3.10E-02	1.21E-05	0.00	7.64E-07	0.00	6.07E-05	0.00	0.00062	0
Hazard Index									0.49		0.079		0.0014		100
												Total HI =	0.57		

Note:
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
EPC = Exposure Point Concentration
HI = Hazard Index
HQ = Hazard Quotient;
mg/kg-day = milligrams per kilogram per day
RfC = Reference Concentration
RfD_d = Dermal Reference Dose;
RfD_o = Oral Reference Dose
RfD_i = Inhalation Reference Dose

Table C-165
Hypothetical Future Residential Scenario - Potential Excess Lifetime Cancer Risk
AVMA Groundwater - Well AP-4336
Fort Richardson - Operable Unit E

									Ingestion		Dermal		Inhalation		Total ELCR	%
Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC	ABS_{gi}	Kp	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR		Contribution
ALUMINUM	--				1.10E+02	1	1.00E-03	1.64E+00		3.32E-03		8.18E+00		0.0E+00	0
ARSENIC	A	1.50E+00	1.50E+00	1.51E+01	2.20E-02	1	1.00E-03	3.27E-04	**4.9E-04**	6.64E-07	1.0E-06	1.64E-03		**4.9E-04**	99
BARIUM	D				8.90E-01	0	1.00E-03	1.32E-02		2.69E-05		6.62E-02		0.0E+00	0
CADMIUM	B1			6.30E+00	5.20E-03	0	1.00E-03	7.74E-05		1.57E-07		3.87E-04		0.0E+00	0
CHROMIUM	A			2.94E+02	1.90E-01	0	2.00E-03	2.83E-03		1.15E-05		1.41E-02		0.0E+00	0
COPPER	D				2.40E-01	1	1.00E-03	3.57E-03		7.24E-06		1.78E-02		0.0E+00	0
IRON	--				1.20E+02	1	1.00E-03	1.79E+00		3.62E-03		8.92E+00		0.0E+00	0
LEAD	--				9.50E-02	1	1.00E-03	1.41E-03		2.87E-06		7.06E-03		0.0E+00	0
NICKEL	D				2.00E-01	0	2.00E-04	2.98E-03		1.21E-06		1.49E-02		0.0E+00	0
SELENIUM	D				6.80E-02	1	1.00E-03	1.01E-03		2.05E-06		5.06E-03		0.0E+00	0
ZINC	D				5.00E-01	1	6.00E-04	7.44E-03		9.05E-06		3.72E-02		0.0E+00	0
BETA BHC	C	1.80E+00	1.80E+00	1.80E+00	1.10E-05	1	2.79E-02	1.64E-07	2.9E-07	9.26E-09	1.7E-08	8.18E-07		3.1E-07	0
HEPTACHLOR	B2	4.50E+00	4.50E+00	4.55E+00	7.10E-06	1	8.60E-03	1.06E-07	4.8E-07	1.84E-09	8.3E-09	5.28E-07		4.8E-07	0
2-METHYLNAPHTHALENE	--				6.00E-05	1	1.42E-02	8.93E-07		2.57E-08		4.46E-06		0.0E+00	0
DI-n-BUTYL PHTHALATE	D				6.50E-03	1	2.40E-02	9.67E-05		4.71E-06		4.83E-04		0.0E+00	0
DI-n-OCTYLPHTHALATE	D				2.00E-03	1	4.45E+00	2.98E-05		2.69E-04		1.49E-04		0.0E+00	0
BENZENE	A	5.50E-02	5.50E-02	2.90E-02	1.10E-04	1	1.50E-02	1.64E-06	9.0E-08	4.98E-08	2.7E-09	8.18E-06	2.4E-07	3.3E-07	0
BROMODICHLOROMETHAN	B2	6.20E-02	6.20E-02	6.20E-02	4.20E-04	1	4.60E-03	6.25E-06	3.9E-07	5.83E-08	3.6E-09	3.12E-05	**1.9E-06**	**2.3E-06**	0
CHLOROFORM	B2				7.00E-03	1	6.80E-03	1.04E-04		1.44E-06		5.21E-04		0.0E+00	0
CHLOROMETHANE	--	1.30E-02	1.30E-02	6.30E-03	2.40E-04	1	3.30E-03	3.57E-06	4.6E-08	2.39E-08	3.1E-10	1.78E-05	1.1E-07	1.6E-07	0
METHYL ISOBUTYL KETONI	--				8.40E-04	1	3.97E-03	1.25E-05		1.01E-07		6.25E-05		0.0E+00	0
METHYLENE CHLORIDE	B2	7.50E-03	7.50E-03	1.65E-03	9.60E-04	1	3.50E-03	1.43E-05	1.1E-07	1.01E-07	7.6E-10	7.14E-05	1.2E-07	2.3E-07	0
NAPHTHALENE	C				7.20E-05	1	4.70E-02	1.07E-06		1.02E-07		5.35E-06		0.0E+00	0
TOLUENE	D				5.20E-04	1	3.10E-02	7.74E-06		4.86E-07		3.87E-05		0.0E+00	0
TRICHLOROETHYLENE (TC	B2	1.10E-02	1.10E-02	6.00E-03	1.60E-04	1	1.20E-02	2.38E-06	2.6E-08	5.79E-08	6.4E-10	1.19E-05	7.1E-08	9.8E-08	0
Total Risk									**4.9E-04**		**1.0E-06**		**2.5E-06**		100
													Total Risk =	**5.0E-04**	

Note:
Cancer WOE Classifications:
Group A: Human carcinogen
Group B (B1, B2): Probable human carcinogen
Group C: Possible human carcinogen
Group D: Not classifiable
Group E: No evidence of carcinogenicity
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
ELCR = Excess Lifetime Cancer Risk
EPC = Exposure Point Concentration
mg/kg-day = milligrams per kilogram per day
SF_d = Dermal Slope Factor
SF_o = Oral Slope Factor
SF_i = Inhalation Slope Factor
WOE = Weight of Evidence

Table C-166

Hypothetical Future Residential Scenario - Potential Noncarcinogenic Risk

AVMA Groundwater - Well AP-4336

Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation		Total HQ	%
Chemical	WOE	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC	ABSgi	Kp	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ		Contribution
ALUMINUM	--	1.00E+00	1.00E+00	1.40E-03	1.10E+02	1	1.00E-03	3.82E+00	**3.8**	7.75E-03	0.01	1.91E+01		**3.8**	15
ARSENIC	A	3.00E-04	3.00E-04		2.20E-02	1	1.00E-03	7.64E-04	**2.5**	1.55E-06	0.01	3.82E-03		**2.6**	10
BARIUM	D	7.00E-02	4.90E-03	1.43E-04	8.90E-01	0	1.00E-03	3.09E-02	0.44	6.27E-05	0.01	1.54E-01		0.45	2
CADMIUM	B1	5.00E-04	1.25E-05		5.20E-03	0	1.00E-03	1.81E-04	0.36	3.66E-07	0.03	9.02E-04		0.39	1
CHROMIUM	A	3.00E-03	7.50E-05	2.20E-06	1.90E-01	0	2.00E-03	6.60E-03	**2.2**	2.68E-05	0.36	3.30E-02		**2.6**	10
COPPER	D	4.00E-02	4.00E-02		2.40E-01	1	1.00E-03	8.33E-03	0.21	1.69E-05	0.00	4.16E-02		0.21	1
IRON	--	3.00E-01	3.00E-01		1.20E+02	1	1.00E-03	4.17E+00	**14**	8.45E-03	0.03	2.08E+01		**14**	53
LEAD	--				9.50E-02	1	1.00E-03	3.30E-03		6.69E-06		1.65E-02		0.0	0
NICKEL	D	2.00E-02	8.00E-04		2.00E-01	0	2.00E-04	6.94E-03	0.35	2.82E-06	0.00	3.47E-02		0.35	1
SELENIUM	D	5.00E-03	5.00E-03		6.80E-02	1	1.00E-03	2.36E-03	0.47	4.79E-06	0.00	1.18E-02		0.47	2
ZINC	D	3.00E-01	3.00E-01		5.00E-01	1	6.00E-04	1.74E-02	0.06	2.11E-05	0.00	8.68E-02		0.058	0
BETA BHC	C	2.00E-04	2.00E-04		1.10E-05	1	2.79E-02	3.82E-07	0.00	2.16E-08	0.00	1.91E-06		0.0020	0
HEPTACHLOR	B2	5.00E-04	5.00E-04		7.10E-06	1	8.60E-03	2.46E-07	0.00	4.30E-09	0.00	1.23E-06		0.00050	0
2-METHYLNAPHTHALENE	--	9.00E-03	9.00E-03		6.00E-05	1	1.42E-02	2.08E-06	0.00	6.00E-08	0.00	1.04E-05		0.00024	0
DI-n-BUTYL PHTHALATE	D	1.00E-01	1.00E-01		6.50E-03	1	2.40E-02	2.26E-04	0.00	1.10E-05	0.00	1.13E-03		0.0024	0
DI-n-OCTYLPHTHALATE	D	4.00E-02	4.00E-02		2.00E-03	1	4.45E+00	6.94E-05	0.00	6.27E-04	0.02	3.47E-04		0.017	0
BENZENE	A	4.00E-03	4.00E-03	8.60E-03	1.10E-04	1	1.50E-02	3.82E-06	0.00	1.16E-07	0.00	1.91E-05	0.00	0.0032	0
BROMODICHLOROMETHANE	B2	2.00E-02	2.00E-02	2.00E-02	4.20E-04	1	4.60E-03	1.46E-05	0.00	1.36E-07	0.00	7.29E-05	0.00	0.0044	0
CHLOROFORM	B2	1.00E-02	1.00E-02	8.60E-04	7.00E-03	1	6.80E-03	2.43E-04	0.02	3.35E-06	0.00	1.21E-03	**1.4**	**1.4**	5
CHLOROMETHANE	--			8.60E-02	2.40E-04	1	3.30E-03	8.33E-06		5.58E-08		4.16E-05	0.00	0.00048	0
METHYL ISOBUTYL KETONE	--	8.00E-02	8.00E-02	2.29E-02	8.40E-04	1	3.97E-03	2.92E-05	0.00	2.35E-07	0.00	1.46E-04	0.01	0.0067	0
METHYLENE CHLORIDE	B2	6.00E-02	6.00E-02	8.57E-01	9.60E-04	1	3.50E-03	3.33E-05	0.00	2.37E-07	0.00	1.67E-04	0.00	0.00075	0
NAPHTHALENE	C	2.00E-02	2.00E-02	8.57E-04	7.20E-05	1	4.70E-02	2.50E-06	0.00	2.38E-07	0.00	1.25E-05	0.01	0.015	0
TOLUENE	D	2.00E-01	2.00E-01	1.10E-01	5.20E-04	1	3.10E-02	1.81E-05	0.00	1.14E-06	0.00	9.02E-05	0.00	0.00092	0
TRICHLOROETHYLENE (TCE)	B2	6.00E-03	6.00E-03	6.00E-03	1.60E-04	1	1.20E-02	5.55E-06	0.00	1.35E-07	0.00	2.78E-05	0.00	0.0056	0
Hazard Index									**24**		0.46		**1.4**		100
												Total HI =	**26**		

Note:

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

EPC = Exposure Point Concentration

HI = Hazard Index

HQ = Hazard Quotient;

mg/kg-day = milligrams per kilogram per day

RfC = Reference Concentration

RfD_d = Dermal Reference Dose;

RfD_o = Oral Reference Dose

RfD_i = Inhalation Reference Dose

Table C-167

Hypothetical Future Residential Scenario - Potential Excess Lifetime Cancer Risk

AVMA Groundwater - Well AP-4337

Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation		Total ELCR	%
Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC	ABS_{gi}	Kp	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR		Contribution
ARSENIC	A	1.50E+00	1.50E+00	1.51E+01	2.00E-02	1	1.00E-03	2.98E-04	**4.5E-04**	6.04E-07	9.1E-07	1.49E-03		**4.5E-04**	98
BARIUM	D				1.60E-01	0	1.00E-03	2.38E-03		4.83E-06		1.19E-02		0.0E+00	0
CHROMIUM	A			2.94E+02	6.20E-02	0	2.00E-03	9.22E-04		3.74E-06		4.61E-03		0.0E+00	0
COPPER	D				1.20E-01	1	1.00E-03	1.79E-03		3.62E-06		8.92E-03		0.0E+00	0
BETA BHC	C	1.80E+00	1.80E+00	1.80E+00	7.50E-06	1	2.79E-02	1.12E-07	2.0E-07	6.31E-09	1.1E-08	5.58E-07		2.1E-07	0
HEPTACHLOR	B2	4.50E+00	4.50E+00	4.55E+00	8.20E-06	1	8.60E-03	1.22E-07	5.5E-07	2.13E-09	9.6E-09	6.10E-07		5.6E-07	0
DI-n-BUTYL PHTHALATE	D				2.90E-03	1	2.40E-02	4.31E-05		2.10E-06		2.16E-04		0.0E+00	0
1,2-DICHLOROBENZENE	--				1.60E-04	1	4.10E-02	2.38E-06		1.98E-07		1.19E-05		0.0E+00	0
CARBON TETRACHLORIDE	B2	1.30E-01	1.30E-01	5.25E-02	1.20E-03	1	1.60E-02	1.79E-05	**2.3E-06**	5.79E-07	7.5E-08	8.92E-05	**4.7E-06**	**7.1E-06**	2
CHLOROFORM	B2				7.80E-04	1	6.80E-03	1.16E-05		1.60E-07		5.80E-05		0.0E+00	0
NAPHTHALENE	C				6.70E-05	1	4.70E-02	9.97E-07		9.50E-08		4.98E-06		0.0E+00	0
tert-BUTYL METHYL ETHER	--	3.30E-03	3.30E-03	3.50E-04	1.70E-04	1	2.57E-03	2.53E-06	8.3E-09	1.32E-08	4.4E-11	1.26E-05	4.4E-09	1.3E-08	0
TOLUENE	D				3.70E-04	1	3.10E-02	5.50E-06		3.46E-07		2.75E-05		0.0E+00	0
Total Risk									**4.5E-04**		**1.0E-06**		**4.7E-06**		100
												Total Risk =	**4.6E-04**		

Note:

Cancer WOE Classifications:

Group A: Human carcinogen
Group B (B1, B2): Probable human carcinogen
Group C: Possible human carcinogen
Group D: Not classifiable
Group E: No evidence of carcinogenicity

ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
ELCR = Excess Lifetime Cancer Risk
EPC = Exposure Point Concentration
mg/kg-day = milligrams per kilogram per day
SF_d = Dermal Slope Factor
SF_o = Oral Slope Factor
SF_i = Inhalation Slope Factor
WOE = Weight of Evidence

Table C-168
Hypothetical Future Residential Scenario - Potential Noncarcinogenic Risk
AVMA Groundwater - Well AP-4337
Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation		Total HQ	%
Chemical	WOE	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC	ABSgi	Kp	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ		Contribution
ARSENIC	A	3.00E-04	3.00E-04		2.00E-02	1	1.00E-03	6.94E-04	**2.31**	1.41E-06	0.00	3.47E-03		**2.3**	60
BARIUM	D	7.00E-02	4.90E-03	1.43E-04	1.60E-01	0	1.00E-03	5.55E-03	0.08	1.13E-05	0.00	2.78E-02		0.082	2
CHROMIUM	A	3.00E-03	7.50E-05	2.20E-06	6.20E-02	0	2.00E-03	2.15E-03	0.72	8.73E-06	0.12	1.08E-02		0.83	22
COPPER	D	4.00E-02	4.00E-02		1.20E-01	1	1.00E-03	4.17E-03	0.10	8.45E-06	0.00	2.08E-02		0.10	3
BETA BHC	C	2.00E-04	2.00E-04		7.50E-06	1	2.79E-02	2.60E-07	0.00	1.47E-08	0.00	1.30E-06		0.0014	0
HEPTACHLOR	B2	5.00E-04	5.00E-04		8.20E-06	1	8.60E-03	2.85E-07	0.00	4.97E-09	0.00	1.42E-06		0.00058	0
DI-n-BUTYL PHTHALATE	D	1.00E-01	1.00E-01		2.90E-03	1	2.40E-02	1.01E-04	0.00	4.90E-06	0.00	5.03E-04		0.0011	0
1,2-DICHLOROBENZENE	--	9.00E-02	9.00E-02	5.71E-02	1.60E-04	1	4.10E-02	5.55E-06	0.00	4.62E-07	0.00	2.78E-05	0.00	0.00055	0
CARBON TETRACHLORIDE	B2	7.00E-04	7.00E-04	7.00E-04	1.20E-03	1	1.60E-02	4.17E-05	0.06	1.35E-06	0.00	2.08E-04	0.30	0.36	9
CHLOROFORM	B2	1.00E-02	1.00E-02	8.60E-04	7.80E-04	1	6.80E-03	2.71E-05	0.00	3.73E-07	0.00	1.35E-04	0.16	0.16	4
NAPHTHALENE	C	2.00E-02	2.00E-02	8.57E-04	6.70E-05	1	4.70E-02	2.33E-06	0.00	2.22E-07	0.00	1.16E-05	0.01	0.014	0
tert-BUTYL METHYL ETHER	--	8.57E-01	8.57E-01	8.57E-01	1.70E-04	1	2.57E-03	5.90E-06	0.00	3.08E-08	0.00	2.95E-05	0.00	0.000041	0
TOLUENE	D	2.00E-01	2.00E-01	1.10E-01	3.70E-04	1	3.10E-02	1.28E-05	0.00	8.08E-07	0.00	6.42E-05	0.00	0.00065	0
Hazard Index									**3.3**		0.13		0.47		100
												Total HI =	**4**		

Note:
ABS_d = Dermal Absorption Factor
ABS_{GI} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
EPC = Exposure Point Concentration
HI = Hazard Index
HQ = Hazard Quotient;
mg/kg-day = milligrams per kilogram per day
RfC = Reference Concentration
RfD_d = Dermal Reference Dose;
RfD_o = Oral Reference Dose
RfD_i = Inhalation Reference Dose

Table C-169

Hypothetical Future Residential Scenario - Potential Excess Lifetime Cancer Risk

AVMA Groundwater - Well AP-4338

Fort Richardson - Operable Unit E

		SF_o	SF_d	SF_i				Ingestion		Dermal		Inhalation		Total ELCR	%
		(mg/kg-day)$^{-1}$	(mg/kg-day)$^{-1}$	(mg/kg-day)$^{-1}$				CDI		CDI (mg/kg-day)		CDI			
Chemical	WOE				EPC	ABS_{gi}	Kp	(mg/kg-day)	ELCR		ELCR	(mg/kg-day)	ELCR		Contribution
ALUMINUM	--				6.10E+02	1	1.00E-03	9.07E+00		1.84E-02		4.54E+01		0.0E+00	0
ANTIMONY	--				6.00E-02	0	1.00E-03	8.93E-04		1.81E-06		4.46E-03		0.0E+00	0
ARSENIC	A	1.50E+00	1.50E+00	1.51E+01	1.30E-01	1	1.00E-03	1.93E-03	**2.9E-03**	3.92E-06	**5.9E-06**	9.67E-03		**2.9E-03**	100
BARIUM	D				3.50E+00	0	1.00E-03	5.21E-02		1.06E-04		2.60E-01		0.0E+00	0
CADMIUM	B1			6.30E+00	3.50E-02	0	1.00E-03	5.21E-04		1.06E-06		2.60E-03		0.0E+00	0
CHROMIUM	A			2.94E+02	1.70E+00	0	2.00E-03	2.53E-02		1.03E-04		1.26E-01		0.0E+00	0
COPPER	D				1.20E+00	1	1.00E-03	1.79E-02		3.62E-05		8.92E-02		0.0E+00	0
IRON	--				1.20E+03	1	1.00E-03	1.79E+01		3.62E-02		8.92E+01		0.0E+00	0
LEAD	--				1.80E-01	1	1.00E-03	2.68E-03		5.43E-06		1.34E-02		0.0E+00	0
MANGANESE	D				2.20E+01	0	1.00E-03	3.27E-01		6.64E-04		1.64E+00		0.0E+00	0
MERCURY	C				3.30E-03	0	1.00E-03	4.91E-05		9.96E-08		2.45E-04		0.0E+00	0
NICKEL	D				1.40E+00	0	2.00E-04	2.08E-02		8.45E-06		1.04E-01		0.0E+00	0
SELENIUM	D				3.70E-01	1	1.00E-03	5.50E-03		1.12E-05		2.75E-02		0.0E+00	0
ZINC	D				2.70E+00	1	6.00E-04	4.02E-02		4.89E-05		2.01E-01		0.0E+00	0
DIMETHYL PHTHALATE	D				1.40E-03	1	1.70E-03	2.08E-05		7.18E-08		1.04E-04		0.0E+00	0
DI-n-BUTYL PHTHALATE	D				2.50E-03	1	2.40E-02	3.72E-05		1.81E-06		1.86E-04		0.0E+00	0
1,1,1-TRICHLOROETHANE	D				2.90E-04	1	1.30E-02	4.31E-06		1.14E-07		2.16E-05		0.0E+00	0
1,2-DICHLOROBENZENE	--				1.90E-03	1	4.10E-02	2.83E-05		2.35E-06		1.41E-04		0.0E+00	0
1,3-DICHLOROBENZENE	D				1.90E-04	1	5.80E-02	2.83E-06		3.33E-07		1.41E-05		0.0E+00	0
1,4-DICHLOROBENZENE	--	2.40E-02	2.40E-02	2.20E-02	2.00E-04	1	4.20E-02	2.98E-06	7.1E-08	2.53E-07	6.1E-09	1.49E-05	3.3E-07	4.0E-07	0
BENZENE	A	5.50E-02	5.50E-02	2.90E-02	1.10E-04	1	1.50E-02	1.64E-06	9.0E-08	4.98E-08	2.7E-09	8.18E-06	2.4E-07	3.3E-07	0
CARBON DISULFIDE	--				4.60E-04	1	1.70E-02	6.84E-06		2.36E-07		3.42E-05		0.0E+00	0
CHLOROFORM	B2				7.80E-04	1	6.80E-03	1.16E-05		1.60E-07		5.80E-05		0.0E+00	0
METHYL ISOBUTYL KETONI	--				3.00E-04	1	3.97E-03	4.46E-06		3.59E-08		2.23E-05		0.0E+00	0
METHYLENE CHLORIDE	B2	7.50E-03	7.50E-03	1.65E-03	8.00E-04	1	3.50E-03	1.19E-05	8.9E-08	8.45E-08	6.3E-10	5.95E-05	9.8E-08	1.9E-07	0
NAPHTHALENE	C				2.20E-03	1	4.70E-02	3.27E-05		3.12E-06		1.64E-04		0.0E+00	0
TOLUENE	D				1.80E-04	1	3.10E-02	2.68E-06		1.68E-07		1.34E-05		0.0E+00	0
Total Risk									**2.9E-03**		**5.9E-06**		6.6E-07		100
												Total Risk =	**2.9E-03**		

Note:

Cancer WOE Classifications:

- Group A: Human carcinogen
- Group B (B1, B2): Probable human carcinogen
- Group C: Possible human carcinogen
- Group D: Not classifiable
- Group E: No evidence of carcinogenicity

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

ELCR = Excess Lifetime Cancer Risk

EPC = Exposure Point Concentration

mg/kg-day = milligrams per kilogram per day

SF_d = Dermal Slope Factor

SF_o = Oral Slope Factor

SF_i = Inhalation Slope Factor

WOE = Weight of Evidence

Table C-170

Hypothetical Future Residential Scenario - Potential Noncarcinogenic Risk

AVMA Groundwater - Well AP-4338

Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation		Total HQ	%
Chemical	WOE	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC	ABS_{gi}	Kp	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ		Contribution
ALUMINUM	--	1.00E+00	1.00E+00	1.40E-03	6.10E+02	1	1.00E-03	2.12E+01	**21**	4.30E-02	0.04	1.06E+02		**21**	9
ANTIMONY	--	4.00E-04	6.00E-06		6.00E-02	0	1.00E-03	2.08E-03	**5.2**	4.22E-06	0.70	1.04E-02		**5.9**	2
ARSENIC	A	3.00E-04	3.00E-04		1.30E-01	1	1.00E-03	4.51E-03	**15**	9.15E-06	0.03	2.26E-02		**15**	6
BARIUM	D	7.00E-02	4.90E-03	1.43E-04	3.50E+00	0	1.00E-03	1.21E-01	**1.7**	2.46E-04	0.05	6.07E-01		**1.8**	1
CADMIUM	B1	5.00E-04	1.25E-05		3.50E-02	0	1.00E-03	1.21E-03	**2.4**	2.46E-06	0.20	6.07E-03		**2.6**	1
CHROMIUM	A	3.00E-03	7.50E-05	2.20E-06	1.70E+00	0	2.00E-03	5.90E-02	**20**	2.39E-04	**3.2**	2.95E-01		**23**	9
COPPER	D	4.00E-02	4.00E-02		1.20E+00	1	1.00E-03	4.17E-02	**1.0**	8.45E-05	0.00	2.08E-01		**1.0**	0
IRON	--	3.00E-01	3.00E-01		1.20E+03	1	1.00E-03	4.17E+01	**139**	8.45E-02	0.28	2.08E+02		**139**	56
LEAD	--				1.80E-01	1	1.00E-03	6.25E-03		1.27E-05		3.12E-02		0.00	0
MANGANESE	D	2.40E-02	9.60E-04	1.40E-05	2.20E+01	0	1.00E-03	7.64E-01	**32**	1.55E-03	**1.6**	3.82E+00		**33**	13
MERCURY	C	3.00E-04	2.10E-05		3.30E-03	0	1.00E-03	1.15E-04	0.38	2.32E-07	0.01	5.73E-04		0.39	0
NICKEL	D	2.00E-02	8.00E-04		1.40E+00	0	2.00E-04	4.86E-02	**2.4**	1.97E-05	0.02	2.43E-01		**2.5**	1
SELENIUM	D	5.00E-03	5.00E-03		3.70E-01	1	1.00E-03	1.28E-02	**2.6**	2.61E-05	0.01	6.42E-02		**2.6**	1
ZINC	D	3.00E-01	3.00E-01		2.70E+00	1	6.00E-04	9.37E-02	0.31	1.14E-04	0.00	4.68E-01		0.31	0
DIMETHYL PHTHALATE	D	1.00E+01	1.00E+01	1.00E+01	1.40E-03	1	1.70E-03	4.86E-05	0.00	1.68E-07	0.00	2.43E-04		0.0000049	0
DI-n-BUTYL PHTHALATE	D	1.00E-01	1.00E-01		2.50E-03	1	2.40E-02	8.68E-05	0.00	4.22E-06	0.00	4.34E-04		0.00091	0
1,1,1-TRICHLOROETHANE	D	2.80E-01	2.80E-01	6.30E-01	2.90E-04	1	1.30E-02	1.01E-05	0.00	2.65E-07	0.00	5.03E-05	0.00	0.00012	0
1,2-DICHLOROBENZENE	--	9.00E-02	9.00E-02	5.71E-02	1.90E-03	1	4.10E-02	6.60E-05	0.00	5.49E-06	0.00	3.30E-04	0.01	0.0066	0
1,3-DICHLOROBENZENE	D	9.00E-04	9.00E-04	9.00E-04	1.90E-04	1	5.80E-02	6.60E-06	0.01	7.76E-07	0.00	3.30E-05	0.04	0.045	0
1,4-DICHLOROBENZENE	--	3.00E-02	3.00E-02	2.29E-01	2.00E-04	1	4.20E-02	6.94E-06	0.00	5.91E-07	0.00	3.47E-05	0.00	0.00040	0
BENZENE	A	4.00E-03	4.00E-03	8.60E-03	1.10E-04	1	1.50E-02	3.82E-06	0.00	1.16E-07	0.00	1.91E-05	0.00	0.0032	0
CARBON DISULFIDE	--	1.00E-01	1.00E-01	2.00E-01	4.60E-04	1	1.70E-02	1.60E-05	0.00	5.51E-07	0.00	7.98E-05	0.00	0.00056	0
CHLOROFORM	B2	1.00E-02	1.00E-02	8.60E-04	7.80E-04	1	6.80E-03	2.71E-05	0.00	3.73E-07	0.00	1.35E-04	0.16	0.16	0
METHYL ISOBUTYL KETONE	--	8.00E-02	8.00E-02	2.29E-02	3.00E-04	1	3.97E-03	1.04E-05	0.00	8.39E-08	0.00	5.21E-05	0.00	0.0024	0
METHYLENE CHLORIDE	B2	6.00E-02	6.00E-02	8.57E-01	8.00E-04	1	3.50E-03	2.78E-05	0.00	1.97E-07	0.00	1.39E-04	0.00	0.00063	0
NAPHTHALENE	C	2.00E-02	2.00E-02	8.57E-04	2.20E-03	1	4.70E-02	7.64E-05	0.00	7.28E-06	0.00	3.82E-04	0.45	0.45	0
TOLUENE	D	2.00E-01	2.00E-01	1.10E-01	1.80E-04	1	3.10E-02	6.25E-06	0.00	3.93E-07	0.00	3.12E-05	0.00	0.00032	0
Hazard Index									**243**		**6.2**		0.65		100
												Total HI =	**249**		

Note:

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

EPC = Exposure Point Concentration

HI = Hazard Index

HQ = Hazard Quotient;

mg/kg-day = milligrams per kilogram per day

RfC = Reference Concentration

RfD_d = Dermal Reference Dose;

RfD_o = Oral Reference Dose

RfD_i = Inhalation Reference Dose

Table C-171

Hypothetical Future Residential Scenario - Potential Excess Lifetime Cancer Risk

AVMA Groundwater - Well AP-4339

Fort Richardson - Operable Unit E

		SF_o	SF_d	SF_i				Ingestion		Dermal		Inhalation		Total ELCR	%
		(mg/kg-day)$^{-1}$	(mg/kg-day)$^{-1}$	(mg/kg-day)$^{-1}$				CDI		CDI (mg/kg-day)		CDI			
Chemical	**WOE**				**EPC**	**ABSgi**	**Kp**	**(mg/kg-day)**	**ELCR**		**ELCR**	**(mg/kg-day)**	**ELCR**		**Contribution**
CHROMIUM	A			2.94E+02	5.50E-01	0	2.00E-03	8.18E-03		3.32E-05		4.09E-02		0.0E+00	0
NICKEL	D				5.10E-01	0	2.00E-04	7.59E-03		3.08E-06		3.79E-02		0.0E+00	0
SILVER	D				6.20E-03	0	6.00E-04	9.22E-05		1.12E-07		4.61E-04		0.0E+00	0
DI-n-BUTYL PHTHALATE	D				3.00E-03	1	2.40E-02	4.46E-05		2.17E-06		2.23E-04		0.0E+00	0
PHENOL	--				2.60E-03	1	4.30E-03	3.87E-05		3.37E-07		1.93E-04		0.0E+00	0
BENZENE	A	5.50E-02	5.50E-02	2.90E-02	1.60E-04	1	1.50E-02	2.38E-06	1.3E-07	7.24E-08	4.0E-09	1.19E-05	3.5E-07	4.8E-07	34
CARBON DISULFIDE	--				1.10E-04	1	1.70E-02	1.64E-06		5.64E-08		8.18E-06		0.0E+00	0
CARBON TETRACHLORIDE	B2	1.30E-01	1.30E-01	5.25E-02	1.30E-04	1	1.60E-02	1.93E-06	2.5E-07	6.28E-08	8.2E-09	9.67E-06	5.1E-07	7.7E-07	55
CHLOROFORM	B2				7.30E-04	1	6.80E-03	1.09E-05		1.50E-07		5.43E-05		0.0E+00	0
METHYLENE CHLORIDE	B2	7.50E-03	7.50E-03	1.65E-03	6.20E-04	1	3.50E-03	9.22E-06	6.9E-08	6.55E-08	4.9E-10	4.61E-05	7.6E-08	1.5E-07	10
TOLUENE	D				4.20E-04	1	3.10E-02	6.25E-06		3.93E-07		3.12E-05		0.0E+00	0
Total Risk									4.5E-07		1.3E-08		9.3E-07		100
												Total Risk =	**1.4E-06**		

Note:

Cancer WOE Classifications:

Group A: Human carcinogen

Group B (B1, B2): Probable human carcinogen

Group C: Possible human carcinogen

Group D: Not classifiable

Group E: No evidence of carcinogenicity

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

ELCR = Excess Lifetime Cancer Risk

EPC = Exposure Point Concentration

mg/kg-day = milligrams per kilogram per day

SF_d = Dermal Slope Factor

SF_o = Oral Slope Factor

SF_i = Inhalation Slope Factor

WOE = Weight of Evidence

Table C-172

Hypothetical Future Residential Scenario - Potential Noncarcinogenic Risk

AVMA Groundwater - Well AP-4339

Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation		Total HQ	%
Chemical	WOE	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC	ABSgi	Kp	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ		Contribution
CHROMIUM	A	3.00E-03	7.50E-05	2.20E-06	5.50E-01	0	2.00E-03	1.91E-02	**6.36**	7.75E-05	**1.03**	9.54E-02		**7.4**	87
NICKEL	D	2.00E-02	8.00E-04		5.10E-01	0	2.00E-04	1.77E-02	0.89	7.18E-06	0.01	8.85E-02		0.89	10
SILVER	D	5.00E-03	2.00E-04		6.20E-03	0	6.00E-04	2.15E-04	0.04	2.62E-07	0.00	1.08E-03		0.044	1
DI-n-BUTYL PHTHALATE	D	1.00E-01	1.00E-01		3.00E-03	1	2.40E-02	1.04E-04	0.00	5.07E-06	0.00	5.21E-04		0.0011	0
PHENOL	--	6.00E-01	6.00E-01		2.60E-03	1	4.30E-03	9.03E-05	0.00	7.87E-07	0.00	4.51E-04		0.00015	0
BENZENE	A	4.00E-03	4.00E-03	8.60E-03	1.60E-04	1	1.50E-02	5.55E-06	0.00	1.69E-07	0.00	2.78E-05	0.00	0.0047	0
CARBON DISULFIDE	--	1.00E-01	1.00E-01	2.00E-01	1.10E-04	1	1.70E-02	3.82E-06	0.00	1.32E-07	0.00	1.91E-05	0.00	0.00013	0
CARBON TETRACHLORIDE	B2	7.00E-04	7.00E-04	7.00E-04	1.30E-04	1	1.60E-02	4.51E-06	0.01	1.46E-07	0.00	2.26E-05	0.03	0.039	0
CHLOROFORM	B2	1.00E-02	1.00E-02	8.60E-04	7.30E-04	1	6.80E-03	2.53E-05	0.00	3.50E-07	0.00	1.27E-04	0.15	0.15	2
METHYLENE CHLORIDE	B2	6.00E-02	6.00E-02	8.57E-01	6.20E-04	1	3.50E-03	2.15E-05	0.00	1.53E-07	0.00	1.08E-04	0.00	0.00049	0
TOLUENE	D	2.00E-01	2.00E-01	1.10E-01	4.20E-04	1	3.10E-02	1.46E-05	0.00	9.17E-07	0.00	7.29E-05	0.00	0.00074	0
Hazard Index									**7**		**1.0**		0.18		100
												Total HI =	**9**		

Note:

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

EPC = Exposure Point Concentration

HI = Hazard Index

HQ = Hazard Quotient;

mg/kg-day = milligrams per kilogram per day

RfC = Reference Concentration

RfD_d = Dermal Reference Dose;

RfD_o = Oral Reference Dose

RfD_i = Inhalation Reference Dose

Table C-173

Hypothetical Future Residential Scenario - Potential Excess Lifetime Cancer Risk

AVMA Groundwater - Well AP-4341

Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation		Total ELCR	%
Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC	ABSgi	Kp	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR		Contribution
BARIUM	D				1.30E-01	0	1.00E-03	1.93E-03		3.92E-06		9.67E-03		0.0E+00	0
DI-n-BUTYL PHTHALATE	D				6.50E-03	1	2.40E-02	9.67E-05		4.71E-06		4.83E-04		0.0E+00	0
CARBON TETRACHLORIDE	B2	1.30E-01	1.30E-01	5.25E-02	3.80E-04	1	1.60E-02	5.65E-06	7.3E-07	1.83E-07	2.4E-08	2.83E-05	**1.5E-06**	**2.2E-06**	43
METHYLENE CHLORIDE	B2	7.50E-03	7.50E-03	1.65E-03	7.60E-04	1	3.50E-03	1.13E-05	8.5E-08	8.03E-08	6.0E-10	5.65E-05	9.3E-08	1.8E-07	3
NAPHTHALENE	C				6.20E-05	1	4.70E-02	9.22E-07		8.79E-08		4.61E-06		0.0E+00	0
TETRACHLOROETHYLENE	C-B2	5.20E-02	5.20E-02	1.00E-02	1.80E-03	1	3.30E-02	2.68E-05	**1.4E-06**	1.79E-06	9.3E-08	1.34E-04	**1.3E-06**	**2.8E-06**	54
TOLUENE	D				9.00E-05	1	3.10E-02	1.34E-06		8.42E-08		6.69E-06		0.0E+00	0
Total Risk									**2.2E-06**		1.2E-07		**2.9E-06**		100
												Total Risk =	**5.2E-06**		

Note:

Cancer WOE Classifications:

Group A: Human carcinogen

Group B (B1, B2): Probable human carcinogen

Group C: Possible human carcinogen

Group D: Not classifiable

Group E: No evidence of carcinogenicity

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

ELCR = Excess Lifetime Cancer Risk

EPC = Exposure Point Concentration

mg/kg-day = milligrams per kilogram per day

SF_d = Dermal Slope Factor

SF_o = Oral Slope Factor

SF_i = Inhalation Slope Factor

WOE = Weight of Evidence

Table C-174

Hypothetical Future Residential Scenario - Potential Noncarcinogenic Risk

AVMA Groundwater - Well AP-4341

Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation		Total HQ	%
Chemical	WOE	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC	ABSgi	Kp	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ		Contribution
BARIUM	D	7.00E-02	4.90E-03	1.43E-04	1.30E-01	0	1.00E-03	4.51E-03	0.06	9.15E-06	0.00	2.26E-02		0.066	32
DI-n-BUTYL PHTHALATE	D	1.00E-01	1.00E-01		6.50E-03	1	2.40E-02	2.26E-04	0.00	1.10E-05	0.00	1.13E-03		0.0024	1
CARBON TETRACHLORIDE	B2	7.00E-04	7.00E-04	7.00E-04	3.80E-04	1	1.60E-02	1.32E-05	0.02	4.28E-07	0.00	6.59E-05	0.09	0.11	56
METHYLENE CHLORIDE	B2	6.00E-02	6.00E-02	8.57E-01	7.60E-04	1	3.50E-03	2.64E-05	0.00	1.87E-07	0.00	1.32E-04	0.00	0.00060	0
NAPHTHALENE	C	2.00E-02	2.00E-02	8.57E-04	6.20E-05	1	4.70E-02	2.15E-06	0.00	2.05E-07	0.00	1.08E-05	0.01	0.013	6
TETRACHLOROETHYLENE (PCE)	C-B2	1.00E-02	1.00E-02	1.70E-01	1.80E-03	1	3.30E-02	6.25E-05	0.01	4.18E-06	0.00	3.12E-04	0.00	0.0085	4
TOLUENE	D	2.00E-01	2.00E-01	1.10E-01	9.00E-05	1	3.10E-02	3.12E-06	0.00	1.96E-07	0.00	1.56E-05	0.00	0.00016	0
Hazard Index									0.1		0.0030		0.11		100
												Total HI =	0.2		

Note:

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

EPC = Exposure Point Concentration

HI = Hazard Index

HQ = Hazard Quotient;

mg/kg-day = milligrams per kilogram per day

RfC = Reference Concentration

RfD_d = Dermal Reference Dose;

RfD_o = Oral Reference Dose

RfD_i = Inhalation Reference Dose

Table C-175

Hypothetical Future Residential Scenario - Potential Excess Lifetime Cancer Risk

AVMA Groundwater - Well AP-4342

Fort Richardson - Operable Unit E

		SF_o	SF_d	SF_i				Ingestion		Dermal		Inhalation		Total ELCR	%
		(mg/kg-day)$^{-1}$	(mg/kg-day)$^{-1}$	(mg/kg-day)$^{-1}$				CDI		CDI (mg/kg-day)		CDI			
Chemical	WOE				EPC	ABSgi	Kp	(mg/kg-day)	ELCR		ELCR	(mg/kg-day)	ELCR		Contribution
ALUMINUM	--				7.10E+01	1	1.00E-03	1.06E+00		2.14E-03		5.28E+00		0.0E+00	0
BARIUM	D				5.85E-01	0	1.00E-03	8.70E-03		1.77E-05		4.35E-02		0.0E+00	0
CHROMIUM	A			2.94E+02	1.75E-01	0	2.00E-03	2.60E-03		1.06E-05		1.30E-02		0.0E+00	0
COPPER	D				2.10E-01	1	1.00E-03	3.12E-03		6.34E-06		1.56E-02		0.0E+00	0
IRON	--				1.19E+02	1	1.00E-03	1.76E+00		3.58E-03		8.81E+00		0.0E+00	0
NICKEL	D				1.75E-01	0	2.00E-04	2.60E-03		1.06E-06		1.30E-02		0.0E+00	0
SELENIUM	D				3.20E-02	1	1.00E-03	4.76E-04		9.66E-07		2.38E-03		0.0E+00	0
BETA BHC	C	1.80E+00	1.80E+00	1.80E+00	6.50E-06	1	2.79E-02	9.67E-08	1.7E-07	5.47E-09	9.9E-09	4.83E-07		1.8E-07	0
ENDRIN ALDEHYDE	D				9.40E-06	1	1.20E-02	1.40E-07		3.40E-09		6.99E-07		0.0E+00	0
2-METHYLNAPHTHALENE	--				4.90E-05	1	1.42E-02	7.29E-07		2.10E-08		3.64E-06		0.0E+00	0
PHENANTHRENE	D				5.20E-05	1	1.40E-01	7.74E-07		2.20E-07		3.87E-06		0.0E+00	0
CARBON TETRACHLORIDE	B2	1.30E-01	1.30E-01	5.25E-02	9.85E-04	1	1.60E-02	1.47E-05	**1.9E-06**	4.76E-07	6.2E-08	7.32E-05	**3.8E-06**	**5.8E-06**	5
CHLOROFORM	B2				3.05E-04	1	6.80E-03	4.54E-06		6.26E-08		2.27E-05		0.0E+00	0
TETRACHLOROETHYLENE	C-B2	5.20E-02	5.20E-02	1.00E-02	7.08E-02	1	3.30E-02	1.05E-03	**5.5E-05**	7.05E-05	**3.7E-06**	5.26E-03	**5.3E-05**	**1.1E-04**	95
TOLUENE	D				2.50E-04	1	3.10E-02	3.72E-06		2.34E-07		1.86E-05		0.0E+00	0
Total Risk									**5.7E-05**		**3.7E-06**		**5.6E-05**		100
													Total Risk =	**1.2E-04**	

Note:

Cancer WOE Classifications:

Group A: Human carcinogen
Group B (B1, B2): Probable human carcinogen
Group C: Possible human carcinogen
Group D: Not classifiable
Group E: No evidence of carcinogenicity

ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
ELCR = Excess Lifetime Cancer Risk
EPC = Exposure Point Concentration
mg/kg-day = milligrams per kilogram per day
SF_d = Dermal Slope Factor
SF_o = Oral Slope Factor
SF_i = Inhalation Slope Factor
WOE = Weight of Evidence

Table C-176
Hypothetical Future Residential Scenario - Potential Noncarcinogenic Risk
AVMA Groundwater - Well AP-4342
Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation		Total HQ	%
Chemical	WOE	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC	ABSgi	Kp	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ		Contribution
ALUMINUM	--	1.00E+00	1.00E+00	1.40E-03	7.10E+01	1	1.00E-03	2.46E+00	**2.5**	5.00E-03	0.00	1.23E+01		**2.5**	12
BARIUM	D	7.00E-02	4.90E-03	1.43E-04	5.85E-01	0	1.00E-03	2.03E-02	0.29	4.12E-05	0.01	1.02E-01		0.30	1
CHROMIUM	A	3.00E-03	7.50E-05	2.20E-06	1.75E-01	0	2.00E-03	6.07E-03	**2.0**	2.46E-05	0.33	3.04E-02		**2.4**	12
COPPER	D	4.00E-02	4.00E-02		2.10E-01	1	1.00E-03	7.29E-03	0.18	1.48E-05	0.00	3.64E-02		0.18	1
IRON	--	3.00E-01	3.00E-01		1.19E+02	1	1.00E-03	4.11E+00	**14**	8.34E-03	0.03	2.06E+01		**14**	68
NICKEL	D	2.00E-02	8.00E-04		1.75E-01	0	2.00E-04	6.07E-03	0.30	2.46E-06	0.00	3.04E-02		0.31	2
SELENIUM	D	5.00E-03	5.00E-03		3.20E-02	1	1.00E-03	1.11E-03	0.22	2.25E-06	0.00	5.55E-03		0.22	1
BETA BHC	C	2.00E-04	2.00E-04		6.50E-06	1	2.79E-02	2.26E-07	0.00	1.28E-08	0.00	1.13E-06		0.0012	0
ENDRIN ALDEHYDE	D	3.00E-04	3.00E-04		9.40E-06	1	1.20E-02	3.26E-07	0.00	7.94E-09	0.00	1.63E-06		0.0011	0
2-METHYLNAPHTHALENE	--	9.00E-03	9.00E-03		4.90E-05	1	1.42E-02	1.70E-06	0.00	4.90E-08	0.00	8.50E-06		0.00019	0
PHENANTHRENE	D	3.00E-01	3.00E-01		5.20E-05	1	1.40E-01	1.81E-06	0.00	5.13E-07	0.00	9.02E-06		0.000008	0
CARBON TETRACHLORIDE	B2	7.00E-04	7.00E-04	7.00E-04	9.85E-04	1	1.60E-02	3.42E-05	0.05	1.11E-06	0.00	1.71E-04	0	0.29	1
CHLOROFORM	B2	1.00E-02	1.00E-02	8.60E-04	3.05E-04	1	6.80E-03	1.06E-05	0.00	1.46E-07	0.00	5.29E-05	0	0.063	0
TETRACHLOROETHYLENE (PCE)	C-B2	1.00E-02	1.00E-02	1.70E-01	7.08E-02	1	3.30E-02	2.46E-03	0.25	1.64E-04	0.02	1.23E-02	0	0.33	2
TOLUENE	D	2.00E-01	2.00E-01	1.10E-01	2.50E-04	1	3.10E-02	8.68E-06	0.00	5.46E-07	0.00	4.34E-05	0	0.00044	0
Hazard Index									**19**		0.39		0.38		100
												Total HI =	**20**		

Note:
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
EPC = Exposure Point Concentration
HI = Hazard Index
HQ = Hazard Quotient;
mg/kg-day = milligrams per kilogram per day
RfC = Reference Concentration
RfD_d = Dermal Reference Dose;
RfD_o = Oral Reference Dose
RfD_i = Inhalation Reference Dose

Table C-177

Hypothetical Future Residential Scenario - Potential Excess Lifetime Cancer Risk

AVMA Groundwater - Well AP-4411

Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation		Total ELCR	%
Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC	ABS_{gi}	Kp	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR		Contribution
CARBON TETRACHLORIDE	B2	1.30E-01	1.30E-01	5.25E-02	3.30E-04	1	1.60E-02	4.91E-06	6.4E-07	1.59E-07	2.1E-08	2.45E-05	**1.3E-06**	**1.9E-06**	8
TETRACHLOROETHYLENE	C-B2	5.20E-02	5.20E-02	1.00E-02	1.43E-02	1	3.30E-02	2.12E-04	**1.1E-05**	1.42E-05	7.4E-07	1.06E-03	**1.1E-05**	**2.2E-05**	92
Total Risk									**1.2E-05**		7.6E-07		**1.2E-05**		100
												Total Risk =	**2.4E-05**		

Note:
Cancer WOE Classifications:
Group A: Human carcinogen
Group B (B1, B2): Probable human carcinogen
Group C: Possible human carcinogen
Group D: Not classifiable
Group E: No evidence of carcinogenicity
ABS_d = Dermal Absorption Factor
ABS_{gi} = Gastrointestinal Aborption Factor
CDI = Chronic Daily Intake
ELCR = Excess Lifetime Cancer Risk
EPC = Exposure Point Concentration
mg/kg-day = milligrams per kilogram per day
SF_d = Dermal Slope Factor
SF_o = Oral Slope Factor
SF_i = Inhalation Slope Factor
WOE = Weight of Evidence

Table C-178

Hypothetical Future Residential Scenario - Potential Noncarcinogenic Risk

AVMA Groundwater - Well AP-4411

Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation		Total HQ	%
Chemical	WOE	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC	ABSgi	Kp	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ		Contribution
CARBON TETRACHLORIDE	B2	7.00E-04	7.00E-04	7.00E-04	3.30E-04	1	1.60E-02	1.15E-05	0.02	3.72E-07	0.00	5.73E-05	0	0.10	59
TETRACHLOROETHYLENE (PCE)	C-B2	1.00E-02	1.00E-02	1.70E-01	1.43E-02	1	3.30E-02	4.95E-04	0.05	3.31E-05	0.00	2.47E-03	0	0.067	41
Hazard Index									0.066		0.0038		0.10		100
												Total HI =	0.17		

Note:

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

EPC = Exposure Point Concentration

HI = Hazard Index

HQ = Hazard Quotient;

mg/kg-day = milligrams per kilogram per day

RfC = Reference Concentration

RfD_d = Dermal Reference Dose;

RfD_o = Oral Reference Dose

RfD_i = Inhalation Reference Dose

Table C-179

Hypothetical Future Residential Scenario - Potential Excess Lifetime Cancer Risk

AVMA Groundwater - Well AP-4413

Fort Richardson - Operable Unit E

		SF_o	SF_d	SF_i				Ingestion		Dermal		Inhalation		Total ELCR	%
Chemical	WOE	(mg/kg-day)$^{-1}$	(mg/kg-day)$^{-1}$	(mg/kg-day)$^{-1}$	EPC	ABS_{gi}	Kp	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR		Contribution
2-METHYLNAPHTHALENE	--				5.90E-05	1	1.42E-02	8.78E-07		2.53E-08		4.39E-06		0.0E+00	0
PHENANTHRENE	D				2.40E-05	1	1.40E-01	3.57E-07		1.01E-07		1.78E-06		0.0E+00	0
CARBON TETRACHLORIDE	B2	1.30E-01	1.30E-01	5.25E-02	1.79E-03	1	1.60E-02	2.66E-05	**3.5E-06**	8.62E-07	1.1E-07	1.33E-04	**7.0E-06**	**1.1E-05**	6
CHLOROFORM	B2				4.80E-04	1	6.80E-03	7.14E-06		9.85E-08		3.57E-05		0.0E+00	0
TETRACHLOROETHYLENE	C-B2	5.20E-02	5.20E-02	1.00E-02	1.00E-01	1	3.30E-02	1.49E-03	**7.7E-05**	9.96E-05	**5.2E-06**	7.44E-03	**7.4E-05**	**1.6E-04**	94
Total Risk									**8.1E-05**		**5.3E-06**		**8.1E-05**		100
													Total Risk =	**1.7E-04**	

Note:

Cancer WOE Classifications:

- Group A: Human carcinogen
- Group B (B1, B2): Probable human carcinogen
- Group C: Possible human carcinogen
- Group D: Not classifiable
- Group E: No evidence of carcinogenicity

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

ELCR = Excess Lifetime Cancer Risk

EPC = Exposure Point Concentration

mg/kg-day = milligrams per kilogram per day

SF_d = Dermal Slope Factor

SF_o = Oral Slope Factor

SF_i = Inhalation Slope Factor

WOE = Weight of Evidence

Table C-180

Hypothetical Future Residential Scenario - Potential Noncarcinogenic Risk

AVMA Groundwater - Well AP-4413

Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation		Total HQ	%
Chemical	WOE	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC	ABS_{gi}	Kp	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ		Contribution
2-METHYLNAPHTHALENE	--	9.00E-03	9.00E-03		5.90E-05	1	1.42E-02	2.05E-06	0.00	5.90E-08	0.00	1.02E-05		0.00023	0
PHENANTHRENE	D	3.00E-01	3.00E-01		2.40E-05	1	1.40E-01	8.33E-07	0.00	2.37E-07	0.00	4.16E-06		0.0000036	0
CARBON TETRACHLORIDE	B2	7.00E-04	7.00E-04	7.00E-04	1.79E-03	1	1.60E-02	6.20E-05	0.09	2.01E-06	0.00	3.10E-04	0	0.53	48
CHLOROFORM	B2	1.00E-02	1.00E-02	8.60E-04	4.80E-04	1	6.80E-03	1.67E-05	0.00	2.30E-07	0.00	8.33E-05	0	0.099	9
TETRACHLOROETHYLENE (PCE)	C-B2	1.00E-02	1.00E-02	1.70E-01	1.00E-01	1	3.30E-02	3.47E-03	0.35	2.32E-04	0.02	1.74E-02	0	0.47	43
Hazard Index									0.44		0.026		0.64		100
												Total HI =	**1.1**		

Note:

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

EPC = Exposure Point Concentration

HI = Hazard Index

HQ = Hazard Quotient;

mg/kg-day = milligrams per kilogram per day

RfC = Reference Concentration

RfD_d = Dermal Reference Dose;

RfD_o = Oral Reference Dose

RfD_i = Inhalation Reference Dose

Table C-181

Hypothetical Future Residential Scenario - Potential Excess Lifetime Cancer Risk

AVMA Groundwater - Well AP-4414

Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation		Total ELCR	%
Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC	ABS_{gi}	Kp	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR		Contribution
CHLOROMETHANE	--	1.30E-02	1.30E-02	6.30E-03	4.00E-04	1	3.30E-03	5.95E-06	7.7E-08	3.98E-08	5.2E-10	2.97E-05	1.9E-07	2.7E-07	100
NAPHTHALENE	C				8.90E-05	1	4.70E-02	1.32E-06		1.26E-07		6.62E-06		0.0E+00	0
Total Risk									7.7E-08		5.2E-10		1.9E-07		100
												Total Risk =	2.7E-07		

Note:

Cancer WOE Classifications:

Group A: Human carcinogen

Group B (B1, B2): Probable human carcinogen

Group C: Possible human carcinogen

Group D: Not classifiable

Group E: No evidence of carcinogenicity

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

ELCR = Excess Lifetime Cancer Risk

EPC = Exposure Point Concentration

mg/kg-day = milligrams per kilogram per day

SF_d = Dermal Slope Factor

SF_o = Oral Slope Factor

SF_i = Inhalation Slope Factor

WOE = Weight of Evidence

Table C-182

Hypothetical Future Residential Scenario - Potential Noncarcinogenic Risk

AVMA Groundwater - Well AP-4414

Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation		Total HQ	%
Chemical	WOE	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC	ABSgi	Kp	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ		Contribution
CHLOROMETHANE	--			8.60E-02	4.00E-04	1	3.30E-03	1.39E-05		9.29E-08		6.94E-05	0	0.00081	4
NAPHTHALENE	C	2.00E-02	2.00E-02	8.57E-04	8.90E-05	1	4.70E-02	3.09E-06	0.00	2.95E-07	0.00	1.54E-05	0	0.018	96
Hazard Index									0.00015		0.000015		0.019		100
												Total HI =	0.019		

Note:

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

EPC = Exposure Point Concentration

HI = Hazard Index

HQ = Hazard Quotient;

mg/kg-day = milligrams per kilogram per day

RfC = Reference Concentration

RfD_d = Dermal Reference Dose;

RfD_o = Oral Reference Dose

RfD_i = Inhalation Reference Dose

Table C-183

Hypothetical Future Residential Scenario - Potential Excess Lifetime Cancer Risk

AVMA Groundwater - Well AP-4415

Fort Richardson - Operable Unit E

Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC	ABSgi	Kp	Ingestion CDI (mg/kg-day)	Ingestion ELCR	Dermal CDI (mg/kg-day)	Dermal ELCR	Inhalation CDI (mg/kg-day)	Inhalation ELCR	Total ELCR	% Contribution
2-METHYLNAPHTHALENE	--				3.60E-05	1	1.42E-02	5.36E-07		1.54E-08		2.68E-06		0.0E+00	0
PHENANTHRENE	D				2.40E-05	1	1.40E-01	3.57E-07		1.01E-07		1.78E-06		0.0E+00	0
NAPHTHALENE	C				3.60E-05	1	4.70E-02	5.36E-07		5.11E-08		2.68E-06		0.0E+00	0
TETRACHLOROETHYLENE	C-B2	5.20E-02	5.20E-02	1.00E-02	4.00E-04	1	3.30E-02	5.95E-06	3.1E-07	3.98E-07	2.1E-08	2.97E-05	3.0E-07	6.3E-07	100
Total Risk									3.1E-07		2.1E-08		3.0E-07		100
													Total Risk =	6.3E-07	

Note:

Cancer WOE Classifications:

- Group A: Human carcinogen
- Group B (B1, B2): Probable human carcinogen
- Group C: Possible human carcinogen
- Group D: Not classifiable
- Group E: No evidence of carcinogenicity

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

ELCR = Excess Lifetime Cancer Risk

EPC = Exposure Point Concentration

mg/kg-day = milligrams per kilogram per day

SF_d = Dermal Slope Factor

SF_o = Oral Slope Factor

SF_i = Inhalation Slope Factor

WOE = Weight of Evidence

Table C-184

Hypothetical Future Residential Scenario - Potential Noncarcinogenic Risk

AVMA Groundwater - Well AP-4415

Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation		Total HQ	%
Chemical	WOE	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC	ABS_{gi}	Kp	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ		Contribution
2-METHYLNAPHTHALENE	--	9.00E-03	9.00E-03		3.60E-05	1	1.42E-02	1.25E-06	0.00	3.60E-08	0.00	6.25E-06		0.00014	2
PHENANTHRENE	D	3.00E-01	3.00E-01		2.40E-05	1	1.40E-01	8.33E-07	0.00	2.37E-07	0.00	4.16E-06		0.0000036	0
NAPHTHALENE	C	2.00E-02	2.00E-02	8.57E-04	3.60E-05	1	4.70E-02	1.25E-06	0.00	1.19E-07	0.00	6.25E-06	0	0.0074	78
TETRACHLOROETHYLENE (PCE)	C-B2	1.00E-02	1.00E-02	1.70E-01	4.00E-04	1	3.30E-02	1.39E-05	0.00	9.29E-07	0.00	6.94E-05	0	0.0019	20
Hazard Index									0.0016		0.00010		0.0077		100
												Total HI =	0.0094		

Note:

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

EPC = Exposure Point Concentration

HI = Hazard Index

HQ = Hazard Quotient;

mg/kg-day = milligrams per kilogram per day

RfC = Reference Concentration

RfD_d = Dermal Reference Dose;

RfD_o = Oral Reference Dose

RfD_i = Inhalation Reference Dose

Table C-185

Hypothetical Future Residential Scenario - Potential Excess Lifetime Cancer Risk

AVMA Groundwater - Well AP-4416

Fort Richardson - Operable Unit E

		SF_o	SF_d	SF_i				Ingestion		Dermal		Inhalation		Total ELCR	%
Chemical	WOE	(mg/kg-day)$^{-1}$	(mg/kg-day)$^{-1}$	(mg/kg-day)$^{-1}$	EPC	ABSgi	Kp	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR	CDI (mg/kg-day)	ELCR		Contribution
BENZENE	A	5.50E-02	5.50E-02	2.90E-02	3.80E-04	1	1.50E-02	5.65E-06	3.1E-07	1.72E-07	9.5E-09	2.83E-05	8.2E-07	**1.1E-06**	100
XYLENES, TOTAL	D				6.70E-04	1	5.30E-03	9.97E-06		1.07E-07		4.98E-05		0.0E+00	0
Total Risk									3.1E-07		9.5E-09		8.2E-07		100
													Total Risk =	**1.1E-06**	

Note:

Cancer WOE Classifications:

Group A: Human carcinogen

Group B (B1, B2): Probable human carcinogen

Group C: Possible human carcinogen

Group D: Not classifiable

Group E: No evidence of carcinogenicity

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

ELCR = Excess Lifetime Cancer Risk

EPC = Exposure Point Concentration

mg/kg-day = milligrams per kilogram per day

SF_d = Dermal Slope Factor

SF_o = Oral Slope Factor

SF_i = Inhalation Slope Factor

WOE = Weight of Evidence

Table C-186

Hypothetical Future Residential Scenario - Potential Noncarcinogenic Risk

AVMA Groundwater - Well AP-4416

Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation		Total HQ	%
Chemical	WOE	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC	ABSgi	Kp	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ		Contribution
BENZENE	A	4.00E-03	4.00E-03	8.60E-03	3.80E-04	1	1.50E-02	1.32E-05	0.00	4.01E-07	0.00	6.59E-05	0	0.011	73
XYLENES, TOTAL	D	2.00E-01	2.00E-01	2.90E-02	6.70E-04	1	5.30E-03	2.33E-05	0.00	2.50E-07	0.00	1.16E-04	0	0.0041	27
Hazard Index									0.0034		0.00010		0.012		100
												Total HI =	0.015		

Note:

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

EPC = Exposure Point Concentration

HI = Hazard Index

HQ = Hazard Quotient;

mg/kg-day = milligrams per kilogram per day

RfC = Reference Concentration

RfD_d = Dermal Reference Dose;

RfD_o = Oral Reference Dose

RfD_i = Inhalation Reference Dose

Table C-187

Hypothetical Future Residential Scenario - Potential Excess Lifetime Cancer Risk

AVMA Groundwater - Well AP-4342-(Dissolved metals)

Fort Richardson - Operable Unit E

Chemical	WOE	SF_o (mg/kg-day)$^{-1}$	SF_d (mg/kg-day)$^{-1}$	SF_i (mg/kg-day)$^{-1}$	EPC	ABS_{gi}	Kp	Ingestion CDI (mg/kg-day)	Ingestion ELCR	Dermal CDI (mg/kg-day)	Dermal ELCR	Inhalation CDI (mg/kg-day)	Inhalation ELCR	Total ELCR	% Contribution
BARIUM_DISS	D				3.65E-02	0	1.00E-03	5.43E-04		1.10E-06		2.71E-03		0.0E+00	0
IRON_DISS	--				9.55E-02	1	1.00E-03	1.42E-03		2.88E-06		7.10E-03		0.0E+00	0
MANGANESE_DISS	D				8.70E-02	0	1.00E-03	1.29E-03		2.63E-06		6.47E-03		0.0E+00	0
MERCURY_DISS	C				3.30E-05	0	1.00E-03	4.91E-07		9.96E-10		2.45E-06		0.0E+00	0
ZINC_DISS	D				1.10E-02	1	6.00E-04	1.64E-04		1.99E-07		8.18E-04		0.0E+00	0
BETA BHC	C	1.80E+00	1.80E+00	1.80E+00	6.50E-06	1	2.79E-02	9.67E-08	1.7E-07	5.47E-09	9.9E-09	4.83E-07		1.8E-07	0
ENDRIN ALDEHYDE	D				9.40E-06	1	1.20E-02	1.40E-07		3.40E-09		6.99E-07		0.0E+00	0
2-METHYLNAPHTHALENE	--				4.90E-05	1	1.42E-02	7.29E-07		2.10E-08		3.64E-06		0.0E+00	0
PHENANTHRENE	D				5.20E-05	1	1.40E-01	7.74E-07		2.20E-07		3.87E-06		0.0E+00	0
CARBON TETRACHLORIDE	B2	1.30E-01	1.30E-01	5.25E-02	9.85E-04	1	1.60E-02	1.47E-05	**1.9E-06**	4.76E-07	6.2E-08	7.32E-05	**3.8E-06**	**5.8E-06**	5
CHLOROFORM	B2				3.05E-04	1	6.80E-03	4.54E-06		6.26E-08		2.27E-05		0.0E+00	0
TETRACHLOROETHYLENE	C-B2	5.20E-02	5.20E-02	1.00E-02	7.08E-02	1	3.30E-02	1.05E-03	**5.5E-05**	7.05E-05	**3.7E-06**	5.26E-03	**5.3E-05**	**1.1E-04**	95
TOLUENE	D				2.50E-04	1	3.10E-02	3.72E-06		2.34E-07		1.86E-05		0.0E+00	0
Total Risk									**5.7E-05**		**3.7E-06**		**5.6E-05**		100
													Total Risk =	**1.2E-04**	

Note:

Cancer WOE Classifications:

- Group A: Human carcinogen
- Group B (B1, B2): Probable human carcinogen
- Group C: Possible human carcinogen
- Group D: Not classifiable
- Group E: No evidence of carcinogenicity

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

ELCR = Excess Lifetime Cancer Risk

EPC = Exposure Point Concentration

mg/kg-day = milligrams per kilogram per day

SF_d = Dermal Slope Factor

SF_o = Oral Slope Factor

SF_i = Inhalation Slope Factor

WOE = Weight of Evidence

Table C-188

Hypothetical Future Residential Scenario - Potential Noncarcinogenic Risk

AVMA Groundwater - Well AP-4342-(Dissolved metals)

Fort Richardson - Operable Unit E

								Ingestion		Dermal		Inhalation		Total HQ	%
Chemical	WOE	RfD_o (mg/kg-day)	RfD_d (mg/kg-day)	RfD_i (mg/kg-day)	EPC	ABS_{gi}	Kp	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ	CDI (mg/kg-day)	HQ		Contribution
BARIUM_DISS	D	7.00E-02	4.90E-03	1.43E-04	3.65E-02	0	1.00E-03	1.27E-03	0.02	2.57E-06	0.00	6.33E-03		0.019	2
IRON_DISS	--	3.00E-01	3.00E-01		9.55E-02	1	1.00E-03	3.32E-03	0.01	6.72E-06	0.00	1.66E-02		0.011	1
MANGANESE_DISS	D	2.40E-02	9.60E-04	1.40E-05	8.70E-02	0	1.00E-03	3.02E-03	0.13	6.13E-06	0.01	1.51E-02		0.13	15
MERCURY_DISS	C	3.00E-04	2.10E-05		3.30E-05	0	1.00E-03	1.15E-06	0.00	2.32E-09	0.00	5.73E-06		0.0039	0
ZINC_DISS	D	3.00E-01	3.00E-01		1.10E-02	1	6.00E-04	3.82E-04	0.00	4.65E-07	0.00	1.91E-03		0.0013	0
BETA BHC	C	2.00E-04	2.00E-04		6.50E-06	1	2.79E-02	2.26E-07	0.00	1.28E-08	0.00	1.13E-06		0.0012	0
ENDRIN ALDEHYDE	D	3.00E-04	3.00E-04		9.40E-06	1	1.20E-02	3.26E-07	0.00	7.94E-09	0.00	1.63E-06		0.0011	0
2-METHYLNAPHTHALENE	--	9.00E-03	9.00E-03		4.90E-05	1	1.42E-02	1.70E-06	0.00	4.90E-08	0.00	8.50E-06		0.00019	0
PHENANTHRENE	D	3.00E-01	3.00E-01		5.20E-05	1	1.40E-01	1.81E-06	0.00	5.13E-07	0.00	9.02E-06		0.0000077	0
CARBON TETRACHLORIDE	B2	7.00E-04	7.00E-04	7.00E-04	9.85E-04	1	1.60E-02	3.42E-05	0.05	1.11E-06	0.00	1.71E-04	0	0.29	34
CHLOROFORM	B2	1.00E-02	1.00E-02	8.60E-04	3.05E-04	1	6.80E-03	1.06E-05	0.00	1.46E-07	0.00	5.29E-05	0	0.063	7
TETRACHLOROETHYLENE (PCE)	C-B2	1.00E-02	1.00E-02	1.70E-01	7.08E-02	1	3.30E-02	2.46E-03	0.25	1.64E-04	0.02	1.23E-02	0	0.33	39
TOLUENE	D	2.00E-01	2.00E-01	1.10E-01	2.50E-04	1	3.10E-02	8.68E-06	0.00	5.46E-07	0.00	4.34E-05	0	0.00044	0
Hazard Index									0.46		0.025		0.38		100
												Total HI =	0.86		

Note:

ABS_d = Dermal Absorption Factor

ABS_{gi} = Gastrointestinal Aborption Factor

CDI = Chronic Daily Intake

EPC = Exposure Point Concentration

HI = Hazard Index

HQ = Hazard Quotient;

mg/kg-day = milligrams per kilogram per day

RfC = Reference Concentration

RfD_d = Dermal Reference Dose;

RfD_o = Oral Reference Dose

RfD_i = Inhalation Reference Dose

Ecological Risk Assessment Appendices

Appendix A
Chemical Database

APPENDIX A

Chemical Database

The available electronic data for Building 35-752 and the Armored Vehicle Maintenance Area (AVMA) were incorporated into the Baseline Ecological Risk Assessment (BERA) chemical database without any additional data validation because this process had already been completed by each source. Previously reported sampling data were checked for inconsistencies, and those were corrected to the extent possible. This included adding sampling depths, standardizing analyte names, correcting matrices, reclassifying analytes, correcting sampling location references, data quality flagging, flagging records that were rendered invalid as a result of a previous remedial action, and standardizing units.

The validated data were evaluated for their use in the risk assessment. Data were retained or eliminated from the ERA database using the following guidelines:

- Media included in the database consisted of field-collected soil. Sediment samples collected from the cooling pond and drainage areas at Building 35-752 were considered to be soil, because these areas were drained and no longer hold water. Soils were divided into two depth groups: soil from 0- to 1-foot below ground surface (bgs) and soil from 0- to 6-feet bgs. (Note: four samples at Building 35-372 that extend to depths greater than 6-feet bgs are included in the 0- to 6-feet-bgs group because they capture either the 4- to 6-foot or 5- to 6-foot depths.)
- Soil samples from locations at Building 35-752 that are no longer accessible to ecological receptors (e.g., areas under impermeable asphalt surfaces and building expansions) were excluded.
- Chemical results with final validation qualifiers of any letter except "U" (sample quantitation limit) or "UJ" (estimated nondetect level) were considered detected.
- Chemical results with final validation qualifiers of "ND" (nondetect level) or "U" or "UJ" were considered non-detects and were evaluated at one-half the method detection limit to calculate summary statistics.
- Chemical data were retained for all sampling locations if the chemical was detected at least once in a specific medium. Chemicals that were never detected in a specific medium were considered not present for the purposes of this ERA. For example, if chemical "x" was detected in at least one soil sample throughout the site, then chemical "x" soil data from all sampling locations were retained and evaluated in the ERA. If chemical "x" was not detected in any of the soil sampling locations, then it was assumed that chemical "x" was not present in soil, and it was not evaluated in the ERA.
- Field duplicates were averaged with the native sample for inclusion in the database.

Chemical data meeting the data evaluation requirements were retained, and those with detected concentrations were further evaluated in the ERA. The database outputs of all retained samples for Building 35-752 and the AVMA are presented in Tables A-1 and A-2, respectively.

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
1,1,1,2-TETRACHLOROETHANE	VOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,1,1,2-TETRACHLOROETHANE	VOC	Cooling Pond	94575242SD	SD-B	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,1,1,2-TETRACHLOROETHANE	VOC	Cooling Pond	94575243SD	SD-C	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
1,1,1,2-TETRACHLOROETHANE	VOC	Cooling Pond	94575244SD	SD-D	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,1,1,2-TETRACHLOROETHANE	VOC	Cooling Pond	94575245SD	SD-E	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,1,1,2-TETRACHLOROETHANE	VOC	Cooling Pond	94575246SD	SD-F	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,1,1,2-TETRACHLOROETHANE	VOC	Cooling Pond	94575247SD	SD-G	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
1,1,1,2-TETRACHLOROETHANE	VOC	Cooling Pond	94575248SD	SD-H	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,1,1,2-TETRACHLOROETHANE	VOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
1,1,1,2-TETRACHLOROETHANE	VOC	119 ft from DP	96575205SD	96-SD5	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
1,1,1,2-TETRACHLOROETHANE	VOC	147 ft from DP	96575206SD	96-SD6	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
1,1,1,2-TETRACHLOROETHANE	VOC	165 ft from DP	96575208SD	96-SD8	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
1,1,1,2-TETRACHLOROETHANE	VOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
1,1,1,2-TETRACHLOROETHANE	VOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8260	09/25/1996	Sediment	0.006	U	0.006	0.015
1,1,1,2-TETRACHLOROETHANE	VOC	40 ft from DP	96575202SD	96-SD2	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
1,1,1,2-TETRACHLOROETHANE	VOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
1,1,1,2-TETRACHLOROETHANE	VOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
1,1,1,2-TETRACHLOROETHANE	VOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8260	09/26/1996	Sediment	0.004	U	0.004	0.01
1,1,1,2-TETRACHLOROETHANE	VOC	Drum Accumulation Area	94575210SL	SS 8	2'	8260	10/06/1994	Soil	0.005	U		0.005
1,1,1,2-TETRACHLOROETHANE	VOC	Drum Accumulation Area	94575211SL	SS 7	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,1,1,2-TETRACHLOROETHANE	VOC	Drum Accumulation Area	94575212SL	SS 6	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,1,1,2-TETRACHLOROETHANE	VOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,1,1,2-TETRACHLOROETHANE	VOC	Drum Accumulation Area	94575215SL	SS 4	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,1,1,2-TETRACHLOROETHANE	VOC	Drum Accumulation Area	94575216SL	SS 3	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,1,1,2-TETRACHLOROETHANE	VOC	Drum Accumulation Area	94575217SL	SS 2	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,1,1,2-TETRACHLOROETHANE	VOC	Drum Accumulation Area	94575218SL	SS 1	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,1,1,2-TETRACHLOROETHANE	VOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8260	11/03/1994	Soil	0.005	U		0.005
1,1,1,2-TETRACHLOROETHANE	VOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8260	11/03/1994	Soil	0.005	U		0.005
1,1,1,2-TETRACHLOROETHANE	VOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8260	11/07/1994	Soil	0.005	U		0.005
1,1,1,2-TETRACHLOROETHANE	VOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8260	11/09/1994	Soil	0.005	U		0.005
1,1,1,2-TETRACHLOROETHANE	VOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8260	11/11/1994	Soil	0.005	U		0.005
1,1,1,2-TETRACHLOROETHANE	VOC	965752BH01	96575225SL	AP-3785	5	8260	10/02/1996	Soil	0.002	U	0.002	0.002
1,1,1,2-TETRACHLOROETHANE	VOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
1,1,1,2-TETRACHLOROETHANE	VOC	965752BH04	96575238SL	AP-3788	2.5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
1,1,1,2-TETRACHLOROETHANE	VOC	965752BH04	96575239SL-AVG	AP-3788	5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
1,1,1,2-TETRACHLOROETHANE	VOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,1,1,2-TETRACHLOROETHANE	VOC	Drum Accumulation Area	94575203SL	SS 2	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,1,1,2-TETRACHLOROETHANE	VOC	Drum Accumulation Area	94575204SL	SS 3	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,1,1,2-TETRACHLOROETHANE	VOC	Drum Accumulation Area	94575205SL	SS 4	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,1,1,2-TETRACHLOROETHANE	VOC	Drum Accumulation Area	94575206SL	SS 5	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,1,1,2-TETRACHLOROETHANE	VOC	Drum Accumulation Area	94575207SL	SS 6	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,1,1,2-TETRACHLOROETHANE	VOC	Drum Accumulation Area	94575208SL	SS 7	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,1,1,2-TETRACHLOROETHANE	VOC	Drum Accumulation Area	94575209SL	SS 8	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,1,1,2-TETRACHLOROETHANE	VOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8260	11/03/1994	Soil	0.005	U		0.005
1,1,1,2-TETRACHLOROETHANE	VOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8260	11/03/1994	Soil	0.005	U		0.005
1,1,1,2-TETRACHLOROETHANE	VOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8260	11/07/1994	Soil	0.005	U		0.005
1,1,1,2-TETRACHLOROETHANE	VOC	Cooling Pond	94575231SL	AP-3503	0-6'	8260	11/08/1994	Soil	0.005	U		0.005
1,1,1,2-TETRACHLOROETHANE	VOC	Cooling Pond	94575235SL	AP-3504	0-2'	8260	11/09/1994	Soil	0.005	U		0.005
1,1,1,2-TETRACHLOROETHANE	VOC	965752BH03	96575230SL	AP-3787	0	8260	10/03/1996	Soil	0.002	U	0.002	0.005
1,1,1,2-TETRACHLOROETHANE	VOC	965752BH04	96575236SL-AVG	AP-3788	0	8260	10/03/1996	Soil	0.002	U	0.002	0.005
1,1,1-TRICHLOROETHANE	VOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8260	12/08/1994	Sediment	0.0115	UD		0.005
1,1,1-TRICHLOROETHANE	VOC	Cooling Pond	94575242SD	SD-B	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,1,1-TRICHLOROETHANE	VOC	Cooling Pond	94575243SD	SD-C	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
1,1,1-TRICHLOROETHANE	VOC	Cooling Pond	94575244SD	SD-D	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,1,1-TRICHLOROETHANE	VOC	Cooling Pond	94575245SD	SD-E	0-6"	8260	12/08/1994	Sediment	0.014	=		0.005
1,1,1-TRICHLOROETHANE	VOC	Cooling Pond	94575246SD	SD-F	0-6"	8260	12/08/1994	Sediment	0.01	=		0.005
1,1,1-TRICHLOROETHANE	VOC	Cooling Pond	94575247SD	SD-G	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
1,1,1-TRICHLOROETHANE	VOC	Cooling Pond	94575248SD	SD-H	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,1,1-TRICHLOROETHANE	VOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
1,1,1-TRICHLOROETHANE	VOC	119 ft from DP	96575205SD	96-SD5	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
1,1,1-TRICHLOROETHANE	VOC	147 ft from DP	96575206SD	96-SD6	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
1,1,1-TRICHLOROETHANE	VOC	165 ft from DP	96575208SD	96-SD8	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
1,1,1-TRICHLOROETHANE	VOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
1,1,1-TRICHLOROETHANE	VOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8260	09/25/1996	Sediment	0.006	U	0.006	0.015
1,1,1-TRICHLOROETHANE	VOC	40 ft from DP	96575202SD	96-SD2	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
1,1,1-TRICHLOROETHANE	VOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
1,1,1-TRICHLOROETHANE	VOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
1,1,1-TRICHLOROETHANE	VOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8260	09/26/1996	Sediment	0.004	U	0.004	0.01
1,1,1-TRICHLOROETHANE	VOC	Drum Accumulation Area	94575210SL	SS 8	2'	8260	10/06/1994	Soil	0.005	U		0.005
1,1,1-TRICHLOROETHANE	VOC	Drum Accumulation Area	94575211SL	SS 7	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,1,1-TRICHLOROETHANE	VOC	Drum Accumulation Area	94575212SL	SS 6	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,1,1-TRICHLOROETHANE	VOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,1,1-TRICHLOROETHANE	VOC	Drum Accumulation Area	94575215SL	SS 4	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,1,1-TRICHLOROETHANE	VOC	Drum Accumulation Area	94575216SL	SS 3	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,1,1-TRICHLOROETHANE	VOC	Drum Accumulation Area	94575217SL	SS 2	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,1,1-TRICHLOROETHANE	VOC	Drum Accumulation Area	94575218SL	SS 1	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,1,1-TRICHLOROETHANE	VOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8260	11/03/1994	Soil	0.005	U		0.005
1,1,1-TRICHLOROETHANE	VOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8260	11/03/1994	Soil	0.005	U		0.005
1,1,1-TRICHLOROETHANE	VOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8260	11/07/1994	Soil	0.005	U		0.005
1,1,1-TRICHLOROETHANE	VOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8260	11/09/1994	Soil	0.005	U		0.005
1,1,1-TRICHLOROETHANE	VOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8260	11/11/1994	Soil	0.005	U		0.005
1,1,1-TRICHLOROETHANE	VOC	965752BH01	96575225SL	AP-3785	5	8260	10/02/1996	Soil	0.002	U	0.002	0.002
1,1,1-TRICHLOROETHANE	VOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
1,1,1-TRICHLOROETHANE	VOC	965752BH04	96575238SL	AP-3788	2.5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
1,1,1-TRICHLOROETHANE	VOC	965752BH04	96575239SL-AVG	AP-3788	5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
1,1,1-TRICHLOROETHANE	VOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,1,1-TRICHLOROETHANE	VOC	Drum Accumulation Area	94575203SL	SS 2	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,1,1-TRICHLOROETHANE	VOC	Drum Accumulation Area	94575204SL	SS 3	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,1,1-TRICHLOROETHANE	VOC	Drum Accumulation Area	94575205SL	SS 4	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,1,1-TRICHLOROETHANE	VOC	Drum Accumulation Area	94575206SL	SS 5	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,1,1-TRICHLOROETHANE	VOC	Drum Accumulation Area	94575207SL	SS 6	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,1,1-TRICHLOROETHANE	VOC	Drum Accumulation Area	94575208SL	SS 7	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,1,1-TRICHLOROETHANE	VOC	Drum Accumulation Area	94575209SL	SS 8	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,1,1-TRICHLOROETHANE	VOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8260	11/03/1994	Soil	0.005	U		0.005
1,1,1-TRICHLOROETHANE	VOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8260	11/03/1994	Soil	0.005	U		0.005
1,1,1-TRICHLOROETHANE	VOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8260	11/07/1994	Soil	0.005	U		0.005
1,1,1-TRICHLOROETHANE	VOC	Cooling Pond	94575231SL	AP-3503	0-6'	8260	11/08/1994	Soil	0.005	U		0.005
1,1,1-TRICHLOROETHANE	VOC	Cooling Pond	94575235SL	AP-3504	0-2'	8260	11/09/1994	Soil	0.005	U		0.005
1,1,1-TRICHLOROETHANE	VOC	965752BH03	96575230SL	AP-3787	0	8260	10/03/1996	Soil	0.002	U	0.002	0.005
1,1,1-TRICHLOROETHANE	VOC	965752BH04	96575236SL-AVG	AP-3788	0	8260	10/03/1996	Soil	0.002	U	0.002	0.005
1,1,2,2-TETRACHLOROETHANE	VOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,1,2,2-TETRACHLOROETHANE	VOC	Cooling Pond	94575242SD	SD-B	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,1,2,2-TETRACHLOROETHANE	VOC	Cooling Pond	94575243SD	SD-C	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
1,1,2,2-TETRACHLOROETHANE	VOC	Cooling Pond	94575244SD	SD-D	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,1,2,2-TETRACHLOROETHANE	VOC	Cooling Pond	94575245SD	SD-E	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,1,2,2-TETRACHLOROETHANE	VOC	Cooling Pond	94575246SD	SD-F	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,1,2,2-TETRACHLOROETHANE	VOC	Cooling Pond	94575247SD	SD-G	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
1,1,2,2-TETRACHLOROETHANE	VOC	Cooling Pond	94575248SD	SD-H	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,1,2,2-TETRACHLOROETHANE	VOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
1,1,2,2-TETRACHLOROETHANE	VOC	119 ft from DP	96575205SD	96-SD5	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
1,1,2,2-TETRACHLOROETHANE	VOC	147 ft from DP	96575206SD	96-SD6	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
1,1,2,2-TETRACHLOROETHANE	VOC	165 ft from DP	96575208SD	96-SD8	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
1,1,2,2-TETRACHLOROETHANE	VOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
1,1,2,2-TETRACHLOROETHANE	VOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8260	09/25/1996	Sediment	0.006	U	0.006	0.015
1,1,2,2-TETRACHLOROETHANE	VOC	40 ft from DP	96575202SD	96-SD2	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
1,1,2,2-TETRACHLOROETHANE	VOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
1,1,2,2-TETRACHLOROETHANE	VOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
1,1,2,2-TETRACHLOROETHANE	VOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8260	09/26/1996	Sediment	0.004	U	0.004	0.01
1,1,2,2-TETRACHLOROETHANE	VOC	Drum Accumulation Area	94575210SL	SS 8	2'	8260	10/06/1994	Soil	0.005	U		0.005
1,1,2,2-TETRACHLOROETHANE	VOC	Drum Accumulation Area	94575211SL	SS 7	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,1,2,2-TETRACHLOROETHANE	VOC	Drum Accumulation Area	94575212SL	SS 6	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,1,2,2-TETRACHLOROETHANE	VOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,1,2,2-TETRACHLOROETHANE	VOC	Drum Accumulation Area	94575215SL	SS 4	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,1,2,2-TETRACHLOROETHANE	VOC	Drum Accumulation Area	94575216SL	SS 3	2'	8260	10/10/1994	Soil	0.005	U		0.005

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
1,1,2,2-TETRACHLOROETHANE	VOC	Drum Accumulation Area	94575217SL	SS 2	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,1,2,2-TETRACHLOROETHANE	VOC	Drum Accumulation Area	94575218SL	SS 1	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,1,2,2-TETRACHLOROETHANE	VOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8260	11/03/1994	Soil	0.005	U		0.005
1,1,2,2-TETRACHLOROETHANE	VOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8260	11/03/1994	Soil	0.005	U		0.005
1,1,2,2-TETRACHLOROETHANE	VOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8260	11/07/1994	Soil	0.005	U		0.005
1,1,2,2-TETRACHLOROETHANE	VOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8260	11/09/1994	Soil	0.005	U		0.005
1,1,2,2-TETRACHLOROETHANE	VOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8260	11/11/1994	Soil	0.005	U		0.005
1,1,2,2-TETRACHLOROETHANE	VOC	965752BH01	96575225SL	AP-3785	5	8260	10/02/1996	Soil	0.002	U	0.002	0.002
1,1,2,2-TETRACHLOROETHANE	VOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
1,1,2,2-TETRACHLOROETHANE	VOC	965752BH04	96575238SL	AP-3788	2.5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
1,1,2,2-TETRACHLOROETHANE	VOC	965752BH04	96575239SL-AVG	AP-3788	5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
1,1,2,2-TETRACHLOROETHANE	VOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,1,2,2-TETRACHLOROETHANE	VOC	Drum Accumulation Area	94575203SL	SS 2	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,1,2,2-TETRACHLOROETHANE	VOC	Drum Accumulation Area	94575204SL	SS 3	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,1,2,2-TETRACHLOROETHANE	VOC	Drum Accumulation Area	94575205SL	SS 4	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,1,2,2-TETRACHLOROETHANE	VOC	Drum Accumulation Area	94575206SL	SS 5	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,1,2,2-TETRACHLOROETHANE	VOC	Drum Accumulation Area	94575207SL	SS 6	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,1,2,2-TETRACHLOROETHANE	VOC	Drum Accumulation Area	94575208SL	SS 7	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,1,2,2-TETRACHLOROETHANE	VOC	Drum Accumulation Area	94575209SL	SS 8	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,1,2,2-TETRACHLOROETHANE	VOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8260	11/03/1994	Soil	0.005	U		0.005
1,1,2,2-TETRACHLOROETHANE	VOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8260	11/03/1994	Soil	0.005	U		0.005
1,1,2,2-TETRACHLOROETHANE	VOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8260	11/07/1994	Soil	0.005	U		0.005
1,1,2,2-TETRACHLOROETHANE	VOC	Cooling Pond	94575231SL	AP-3503	0-6'	8260	11/08/1994	Soil	0.005	U		0.005
1,1,2,2-TETRACHLOROETHANE	VOC	Cooling Pond	94575235SL	AP-3504	0-2'	8260	11/09/1994	Soil	0.005	U		0.005
1,1,2,2-TETRACHLOROETHANE	VOC	965752BH03	96575230SL	AP-3787	0	8260	10/03/1996	Soil	0.002	U	0.002	0.005
1,1,2,2-TETRACHLOROETHANE	VOC	965752BH04	96575236SL-AVG	AP-3788	0	8260	10/03/1996	Soil	0.002	U	0.002	0.005
1,1,2-TRICHLOROETHANE	VOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,1,2-TRICHLOROETHANE	VOC	Cooling Pond	94575242SD	SD-B	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,1,2-TRICHLOROETHANE	VOC	Cooling Pond	94575243SD	SD-C	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
1,1,2-TRICHLOROETHANE	VOC	Cooling Pond	94575244SD	SD-D	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,1,2-TRICHLOROETHANE	VOC	Cooling Pond	94575245SD	SD-E	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,1,2-TRICHLOROETHANE	VOC	Cooling Pond	94575246SD	SD-F	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,1,2-TRICHLOROETHANE	VOC	Cooling Pond	94575247SD	SD-G	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
1,1,2-TRICHLOROETHANE	VOC	Cooling Pond	94575248SD	SD-H	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,1,2-TRICHLOROETHANE	VOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
1,1,2-TRICHLOROETHANE	VOC	119 ft from DP	96575205SD	96-SD5	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
1,1,2-TRICHLOROETHANE	VOC	147 ft from DP	96575206SD	96-SD6	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
1,1,2-TRICHLOROETHANE	VOC	165 ft from DP	96575208SD	96-SD8	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
1,1,2-TRICHLOROETHANE	VOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
1,1,2-TRICHLOROETHANE	VOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8260	09/25/1996	Sediment	0.006	U	0.006	0.015
1,1,2-TRICHLOROETHANE	VOC	40 ft from DP	96575202SD	96-SD2	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
1,1,2-TRICHLOROETHANE	VOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
1,1,2-TRICHLOROETHANE	VOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
1,1,2-TRICHLOROETHANE	VOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8260	09/26/1996	Sediment	0.004	U	0.004	0.01
1,1,2-TRICHLOROETHANE	VOC	Drum Accumulation Area	94575210SL	SS 8	2'	8260	10/06/1994	Soil	0.005	U		0.005
1,1,2-TRICHLOROETHANE	VOC	Drum Accumulation Area	94575211SL	SS 7	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,1,2-TRICHLOROETHANE	VOC	Drum Accumulation Area	94575212SL	SS 6	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,1,2-TRICHLOROETHANE	VOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,1,2-TRICHLOROETHANE	VOC	Drum Accumulation Area	94575215SL	SS 4	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,1,2-TRICHLOROETHANE	VOC	Drum Accumulation Area	94575216SL	SS 3	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,1,2-TRICHLOROETHANE	VOC	Drum Accumulation Area	94575217SL	SS 2	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,1,2-TRICHLOROETHANE	VOC	Drum Accumulation Area	94575218SL	SS 1	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,1,2-TRICHLOROETHANE	VOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8260	11/03/1994	Soil	0.005	U		0.005
1,1,2-TRICHLOROETHANE	VOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8260	11/03/1994	Soil	0.005	U		0.005
1,1,2-TRICHLOROETHANE	VOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8260	11/07/1994	Soil	0.005	U		0.005
1,1,2-TRICHLOROETHANE	VOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8260	11/09/1994	Soil	0.005	U		0.005
1,1,2-TRICHLOROETHANE	VOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8260	11/11/1994	Soil	0.005	U		0.005
1,1,2-TRICHLOROETHANE	VOC	965752BH01	96575225SL	AP-3785	5	8260	10/02/1996	Soil	0.002	U	0.002	0.002
1,1,2-TRICHLOROETHANE	VOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
1,1,2-TRICHLOROETHANE	VOC	965752BH04	96575238SL	AP-3788	2.5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
1,1,2-TRICHLOROETHANE	VOC	965752BH04	96575239SL-AVG	AP-3788	5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
1,1,2-TRICHLOROETHANE	VOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8260	10/06/1994	Soil	0.005	U		0.005

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
1,1,2-TRICHLOROETHANE	VOC	Drum Accumulation Area	94575203SL	SS 2	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,1,2-TRICHLOROETHANE	VOC	Drum Accumulation Area	94575204SL	SS 3	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,1,2-TRICHLOROETHANE	VOC	Drum Accumulation Area	94575205SL	SS 4	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,1,2-TRICHLOROETHANE	VOC	Drum Accumulation Area	94575206SL	SS 5	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,1,2-TRICHLOROETHANE	VOC	Drum Accumulation Area	94575207SL	SS 6	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,1,2-TRICHLOROETHANE	VOC	Drum Accumulation Area	94575208SL	SS 7	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,1,2-TRICHLOROETHANE	VOC	Drum Accumulation Area	94575209SL	SS 8	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,1,2-TRICHLOROETHANE	VOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8260	11/03/1994	Soil	0.005	U		0.005
1,1,2-TRICHLOROETHANE	VOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8260	11/03/1994	Soil	0.005	U		0.005
1,1,2-TRICHLOROETHANE	VOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8260	11/07/1994	Soil	0.005	U		0.005
1,1,2-TRICHLOROETHANE	VOC	Cooling Pond	94575231SL	AP-3503	0-6'	8260	11/08/1994	Soil	0.005	U		0.005
1,1,2-TRICHLOROETHANE	VOC	Cooling Pond	94575235SL	AP-3504	0-2'	8260	11/09/1994	Soil	0.005	U		0.005
1,1,2-TRICHLOROETHANE	VOC	965752BH03	96575230SL	AP-3787	0	8260	10/03/1996	Soil	0.002	U	0.002	0.005
1,1,2-TRICHLOROETHANE	VOC	965752BH04	96575236SL-AVG	AP-3788	0	8260	10/03/1996	Soil	0.002	U	0.002	0.005
1,1-DICHLOROETHANE	VOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,1-DICHLOROETHANE	VOC	Cooling Pond	94575242SD	SD-B	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,1-DICHLOROETHANE	VOC	Cooling Pond	94575243SD	SD-C	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
1,1-DICHLOROETHANE	VOC	Cooling Pond	94575244SD	SD-D	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,1-DICHLOROETHANE	VOC	Cooling Pond	94575245SD	SD-E	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,1-DICHLOROETHANE	VOC	Cooling Pond	94575246SD	SD-F	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,1-DICHLOROETHANE	VOC	Cooling Pond	94575247SD	SD-G	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
1,1-DICHLOROETHANE	VOC	Cooling Pond	94575248SD	SD-H	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,1-DICHLOROETHANE	VOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.01
1,1-DICHLOROETHANE	VOC	119 ft from DP	96575205SD	96-SD5	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.01
1,1-DICHLOROETHANE	VOC	147 ft from DP	96575206SD	96-SD6	----	8260	09/25/1996	Sediment	0.001	U	0.001	0.005
1,1-DICHLOROETHANE	VOC	165 ft from DP	96575208SD	96-SD8	----	8260	09/25/1996	Sediment	0.001	U	0.001	0.005
1,1-DICHLOROETHANE	VOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8260	09/25/1996	Sediment	0.001	U	0.001	0.005
1,1-DICHLOROETHANE	VOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8260	09/25/1996	Sediment	0.003	U	0.003	0.015
1,1-DICHLOROETHANE	VOC	40 ft from DP	96575202SD	96-SD2	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.01
1,1-DICHLOROETHANE	VOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.01
1,1-DICHLOROETHANE	VOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8260	09/25/1996	Sediment	0.001	U	0.001	0.005
1,1-DICHLOROETHANE	VOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8260	09/26/1996	Sediment	0.002	U	0.002	0.01
1,1-DICHLOROETHANE	VOC	Drum Accumulation Area	94575210SL	SS 8	2'	8260	10/06/1994	Soil	0.005	U		0.005
1,1-DICHLOROETHANE	VOC	Drum Accumulation Area	94575211SL	SS 7	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,1-DICHLOROETHANE	VOC	Drum Accumulation Area	94575212SL	SS 6	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,1-DICHLOROETHANE	VOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,1-DICHLOROETHANE	VOC	Drum Accumulation Area	94575215SL	SS 4	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,1-DICHLOROETHANE	VOC	Drum Accumulation Area	94575216SL	SS 3	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,1-DICHLOROETHANE	VOC	Drum Accumulation Area	94575217SL	SS 2	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,1-DICHLOROETHANE	VOC	Drum Accumulation Area	94575218SL	SS 1	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,1-DICHLOROETHANE	VOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8260	11/03/1994	Soil	0.005	U		0.005
1,1-DICHLOROETHANE	VOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8260	11/03/1994	Soil	0.005	U		0.005
1,1-DICHLOROETHANE	VOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8260	11/07/1994	Soil	0.005	U		0.005
1,1-DICHLOROETHANE	VOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8260	11/09/1994	Soil	0.005	U		0.005
1,1-DICHLOROETHANE	VOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8260	11/11/1994	Soil	0.005	U		0.005
1,1-DICHLOROETHANE	VOC	965752BH01	96575225SL	AP-3785	5	8260	10/02/1996	Soil	0.001	U	0.001	0.001
1,1-DICHLOROETHANE	VOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8260	10/03/1996	Soil	0.001	U	0.001	0.001
1,1-DICHLOROETHANE	VOC	965752BH04	96575238SL	AP-3788	2.5	8260	10/03/1996	Soil	0.001	U	0.001	0.001
1,1-DICHLOROETHANE	VOC	965752BH04	96575239SL-AVG	AP-3788	5	8260	10/03/1996	Soil	0.001	U	0.001	0.001
1,1-DICHLOROETHANE	VOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,1-DICHLOROETHANE	VOC	Drum Accumulation Area	94575203SL	SS 2	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,1-DICHLOROETHANE	VOC	Drum Accumulation Area	94575204SL	SS 3	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,1-DICHLOROETHANE	VOC	Drum Accumulation Area	94575205SL	SS 4	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,1-DICHLOROETHANE	VOC	Drum Accumulation Area	94575206SL	SS 5	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,1-DICHLOROETHANE	VOC	Drum Accumulation Area	94575207SL	SS 6	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,1-DICHLOROETHANE	VOC	Drum Accumulation Area	94575208SL	SS 7	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,1-DICHLOROETHANE	VOC	Drum Accumulation Area	94575209SL	SS 8	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,1-DICHLOROETHANE	VOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8260	11/03/1994	Soil	0.005	U		0.005
1,1-DICHLOROETHANE	VOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8260	11/03/1994	Soil	0.005	U		0.005
1,1-DICHLOROETHANE	VOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8260	11/07/1994	Soil	0.005	U		0.005
1,1-DICHLOROETHANE	VOC	Cooling Pond	94575231SL	AP-3503	0-6'	8260	11/08/1994	Soil	0.005	U		0.005
1,1-DICHLOROETHANE	VOC	Cooling Pond	94575235SL	AP-3504	0-2'	8260	11/09/1994	Soil	0.005	U		0.005

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
1,1-DICHLOROETHANE	VOC	965752BH03	96575230SL	AP-3787	0	8260	10/03/1996	Soil	0.001	U	0.001	0.005
1,1-DICHLOROETHANE	VOC	965752BH04	96575236SL-AVG	AP-3788	0	8260	10/03/1996	Soil	0.001	U	0.001	0.005
1,1-DICHLOROETHENE	VOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,1-DICHLOROETHENE	VOC	Cooling Pond	94575242SD	SD-B	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,1-DICHLOROETHENE	VOC	Cooling Pond	94575243SD	SD-C	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
1,1-DICHLOROETHENE	VOC	Cooling Pond	94575244SD	SD-D	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,1-DICHLOROETHENE	VOC	Cooling Pond	94575245SD	SD-E	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,1-DICHLOROETHENE	VOC	Cooling Pond	94575246SD	SD-F	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,1-DICHLOROETHENE	VOC	Cooling Pond	94575247SD	SD-G	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
1,1-DICHLOROETHENE	VOC	Cooling Pond	94575248SD	SD-H	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,1-DICHLOROETHENE	VOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.01
1,1-DICHLOROETHENE	VOC	119 ft from DP	96575205SD	96-SD5	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.01
1,1-DICHLOROETHENE	VOC	147 ft from DP	96575206SD	96-SD6	----	8260	09/25/1996	Sediment	0.0009	U	0.0009	0.005
1,1-DICHLOROETHENE	VOC	165 ft from DP	96575208SD	96-SD8	----	8260	09/25/1996	Sediment	0.0009	U	0.0009	0.005
1,1-DICHLOROETHENE	VOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8260	09/25/1996	Sediment	0.0009	U	0.0009	0.005
1,1-DICHLOROETHENE	VOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8260	09/25/1996	Sediment	0.003	U	0.003	0.015
1,1-DICHLOROETHENE	VOC	40 ft from DP	96575202SD	96-SD2	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.01
1,1-DICHLOROETHENE	VOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.01
1,1-DICHLOROETHENE	VOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8260	09/25/1996	Sediment	0.0009	U	0.0009	0.005
1,1-DICHLOROETHENE	VOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8260	09/26/1996	Sediment	0.002	U	0.002	0.01
1,1-DICHLOROETHENE	VOC	Drum Accumulation Area	94575210SL	SS 8	2'	8260	10/06/1994	Soil	0.005	U		0.005
1,1-DICHLOROETHENE	VOC	Drum Accumulation Area	94575211SL	SS 7	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,1-DICHLOROETHENE	VOC	Drum Accumulation Area	94575212SL	SS 6	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,1-DICHLOROETHENE	VOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,1-DICHLOROETHENE	VOC	Drum Accumulation Area	94575215SL	SS 4	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,1-DICHLOROETHENE	VOC	Drum Accumulation Area	94575216SL	SS 3	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,1-DICHLOROETHENE	VOC	Drum Accumulation Area	94575217SL	SS 2	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,1-DICHLOROETHENE	VOC	Drum Accumulation Area	94575218SL	SS 1	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,1-DICHLOROETHENE	VOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8260	11/03/1994	Soil	0.005	U		0.005
1,1-DICHLOROETHENE	VOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8260	11/03/1994	Soil	0.005	U		0.005
1,1-DICHLOROETHENE	VOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8260	11/07/1994	Soil	0.005	U		0.005
1,1-DICHLOROETHENE	VOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8260	11/09/1994	Soil	0.005	U		0.005
1,1-DICHLOROETHENE	VOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8260	11/11/1994	Soil	0.005	U		0.005
1,1-DICHLOROETHENE	VOC	965752BH01	96575225SL	AP-3785	5	8260	10/02/1996	Soil	0.0009	U	0.0009	0.0009
1,1-DICHLOROETHENE	VOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8260	10/03/1996	Soil	0.0009	U	0.0009	0.0009
1,1-DICHLOROETHENE	VOC	965752BH04	96575238SL	AP-3788	2.5	8260	10/03/1996	Soil	0.0009	U	0.0009	0.0009
1,1-DICHLOROETHENE	VOC	965752BH04	96575239SL-AVG	AP-3788	5	8260	10/03/1996	Soil	0.0009	U	0.0009	0.0009
1,1-DICHLOROETHENE	VOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,1-DICHLOROETHENE	VOC	Drum Accumulation Area	94575203SL	SS 2	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,1-DICHLOROETHENE	VOC	Drum Accumulation Area	94575204SL	SS 3	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,1-DICHLOROETHENE	VOC	Drum Accumulation Area	94575205SL	SS 4	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,1-DICHLOROETHENE	VOC	Drum Accumulation Area	94575206SL	SS 5	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,1-DICHLOROETHENE	VOC	Drum Accumulation Area	94575207SL	SS 6	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,1-DICHLOROETHENE	VOC	Drum Accumulation Area	94575208SL	SS 7	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,1-DICHLOROETHENE	VOC	Drum Accumulation Area	94575209SL	SS 8	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,1-DICHLOROETHENE	VOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8260	11/03/1994	Soil	0.005	U		0.005
1,1-DICHLOROETHENE	VOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8260	11/03/1994	Soil	0.005	U		0.005
1,1-DICHLOROETHENE	VOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8260	11/07/1994	Soil	0.005	U		0.005
1,1-DICHLOROETHENE	VOC	Cooling Pond	94575231SL	AP-3503	0-6'	8260	11/08/1994	Soil	0.005	U		0.005
1,1-DICHLOROETHENE	VOC	Cooling Pond	94575235SL	AP-3504	0-2'	8260	11/09/1994	Soil	0.005	U		0.005
1,1-DICHLOROETHENE	VOC	965752BH03	96575230SL	AP-3787	0	8260	10/03/1996	Soil	0.0009	U	0.0009	0.005
1,1-DICHLOROETHENE	VOC	965752BH04	96575236SL-AVG	AP-3788	0	8260	10/03/1996	Soil	0.0009	U	0.0009	0.005
1,1-DICHLOROPROPENE	VOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,1-DICHLOROPROPENE	VOC	Cooling Pond	94575242SD	SD-B	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,1-DICHLOROPROPENE	VOC	Cooling Pond	94575243SD	SD-C	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
1,1-DICHLOROPROPENE	VOC	Cooling Pond	94575244SD	SD-D	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,1-DICHLOROPROPENE	VOC	Cooling Pond	94575245SD	SD-E	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,1-DICHLOROPROPENE	VOC	Cooling Pond	94575246SD	SD-F	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,1-DICHLOROPROPENE	VOC	Cooling Pond	94575247SD	SD-G	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
1,1-DICHLOROPROPENE	VOC	Cooling Pond	94575248SD	SD-H	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,1-DICHLOROPROPENE	VOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.01
1,1-DICHLOROPROPENE	VOC	119 ft from DP	96575205SD	96-SD5	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.01

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
1,1-DICHLOROPROPENE	VOC	147 ft from DP	96575206SD	96-SD6	----	8260	09/25/1996	Sediment	0.0009	U	0.0009	0.005
1,1-DICHLOROPROPENE	VOC	165 ft from DP	96575208SD	96-SD8	----	8260	09/25/1996	Sediment	0.0009	U	0.0009	0.005
1,1-DICHLOROPROPENE	VOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8260	09/25/1996	Sediment	0.0009	U	0.0009	0.005
1,1-DICHLOROPROPENE	VOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8260	09/25/1996	Sediment	0.003	U	0.003	0.015
1,1-DICHLOROPROPENE	VOC	40 ft from DP	96575202SD	96-SD2	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.01
1,1-DICHLOROPROPENE	VOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.01
1,1-DICHLOROPROPENE	VOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8260	09/25/1996	Sediment	0.0009	U	0.0009	0.005
1,1-DICHLOROPROPENE	VOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8260	09/26/1996	Sediment	0.002	U	0.002	0.01
1,1-DICHLOROPROPENE	VOC	Drum Accumulation Area	94575210SL	SS 8	2'	8260	10/06/1994	Soil	0.005	U		0.005
1,1-DICHLOROPROPENE	VOC	Drum Accumulation Area	94575211SL	SS 7	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,1-DICHLOROPROPENE	VOC	Drum Accumulation Area	94575212SL	SS 6	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,1-DICHLOROPROPENE	VOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,1-DICHLOROPROPENE	VOC	Drum Accumulation Area	94575215SL	SS 4	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,1-DICHLOROPROPENE	VOC	Drum Accumulation Area	94575216SL	SS 3	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,1-DICHLOROPROPENE	VOC	Drum Accumulation Area	94575217SL	SS 2	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,1-DICHLOROPROPENE	VOC	Drum Accumulation Area	94575218SL	SS 1	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,1-DICHLOROPROPENE	VOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8260	11/03/1994	Soil	0.005	U		0.005
1,1-DICHLOROPROPENE	VOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8260	11/03/1994	Soil	0.005	U		0.005
1,1-DICHLOROPROPENE	VOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8260	11/07/1994	Soil	0.005	U		0.005
1,1-DICHLOROPROPENE	VOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8260	11/09/1994	Soil	0.005	U		0.005
1,1-DICHLOROPROPENE	VOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8260	11/11/1994	Soil	0.005	U		0.005
1,1-DICHLOROPROPENE	VOC	965752BH01	96575225SL	AP-3785	5	8260	10/02/1996	Soil	0.0009	U	0.0009	0.0009
1,1-DICHLOROPROPENE	VOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8260	10/03/1996	Soil	0.0009	U	0.0009	0.0009
1,1-DICHLOROPROPENE	VOC	965752BH04	96575238SL	AP-3788	2.5	8260	10/03/1996	Soil	0.0009	U	0.0009	0.0009
1,1-DICHLOROPROPENE	VOC	965752BH04	96575239SL-AVG	AP-3788	5	8260	10/03/1996	Soil	0.0009	U	0.0009	0.0009
1,1-DICHLOROPROPENE	VOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,1-DICHLOROPROPENE	VOC	Drum Accumulation Area	94575203SL	SS 2	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,1-DICHLOROPROPENE	VOC	Drum Accumulation Area	94575204SL	SS 3	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,1-DICHLOROPROPENE	VOC	Drum Accumulation Area	94575205SL	SS 4	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,1-DICHLOROPROPENE	VOC	Drum Accumulation Area	94575206SL	SS 5	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,1-DICHLOROPROPENE	VOC	Drum Accumulation Area	94575207SL	SS 6	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,1-DICHLOROPROPENE	VOC	Drum Accumulation Area	94575208SL	SS 7	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,1-DICHLOROPROPENE	VOC	Drum Accumulation Area	94575209SL	SS 8	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,1-DICHLOROPROPENE	VOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8260	11/03/1994	Soil	0.005	U		0.005
1,1-DICHLOROPROPENE	VOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8260	11/03/1994	Soil	0.005	U		0.005
1,1-DICHLOROPROPENE	VOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8260	11/07/1994	Soil	0.005	U		0.005
1,1-DICHLOROPROPENE	VOC	Cooling Pond	94575231SL	AP-3503	0-6'	8260	11/08/1994	Soil	0.005	U		0.005
1,1-DICHLOROPROPENE	VOC	Cooling Pond	94575235SL	AP-3504	0-2'	8260	11/09/1994	Soil	0.005	U		0.005
1,1-DICHLOROPROPENE	VOC	965752BH03	96575230SL	AP-3787	0	8260	10/03/1996	Soil	0.0009	U	0.0009	0.005
1,1-DICHLOROPROPENE	VOC	965752BH04	96575236SL-AVG	AP-3788	0	8260	10/03/1996	Soil	0.0009	U	0.0009	0.005
1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752132SL	P1	1.5 - 2	SW8290D	07/30/2002	Soil	0.00000071	=	0.00000199	0.000005
1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752202SL	P24	1 - 1.5	SW8290D	07/30/2002	Soil	0.0000122	=	0.00000199	0.000005
1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752215SL	P28	1.5 - 2	SW8290D	07/30/2002	Soil	0.000002	U	0.000002	0.000005
1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752220SL	P30	1 - 1.5	SW8290D	07/30/2002	Soil	0.00000067	=	0.00000199	0.000005
1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752157SL-AVG	P10	0 - 0.5	SW8290D	07/30/2002	Soil	0.00000575	=		
1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752208SL	P26	0 - 0.5	SW8290D	07/30/2002	Soil	0.0000646	=		
1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752217SL	P29	0 - 0.5	SW8290D	07/30/2002	Soil	0.0000672	=		
1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75264SL	S31	1 - 1.5	SW8290D	07/26/2002	Soil	0.00000065	=	0.00000195	0.0000049
1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75270SL	S34	1 - 1.5	SW8290D	07/26/2002	Soil	0.0000041	=	0.00000197	0.0000049
1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75277SL	S38	0 - 0.5	SW8290D	07/26/2002	Soil	0.0000139	=	0.00000199	0.000005
1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75283SL-AVG	S41	0 - 0.5	SW8290D	07/26/2002	Soil	0.0000058	=		
1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Transformer Mounting Area	02B75238SL	T13	0 - 0.5	SW8290D	08/01/2002	Soil	0.000166	=	0.00000199	0.000005
1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Transformer Mounting Area	02B75244SL	T15	0 - 0.5	SW8290D	08/01/2002	Soil	0.000125	=	0.00000198	0.000005
1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B75216SL	T6	0 - 0.5	SW8290D	08/01/2002	Soil	0.0000272	=	0.00000197	0.0000049
1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B75229SL	T10	0 - 0.5	SW8290D	08/01/2002	Soil	0.0000185	=		
1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B752233	T11	0.5 - 1	SW8290D	10/15/2002	Soil	0.0000035	=	0.000002	0.000005
1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	DIOXIN/FURANS	fiber cable route	LCI 1-1	LCI1	1-2'	8280A	05/10/2001	Soil	0.00001	U		0.00001
1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	DIOXIN/FURANS	fiber cable route	LCI 5-0	LCI5	0-1'	8280A	05/10/2001	Soil	0.00001	U		0.00001
1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752132SL	P1	1.5 - 2	SW8290D	07/30/2002	Soil	0.0000013	=	0.00000109	0.000005
1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752202SL	P24	1 - 1.5	SW8290D	07/30/2002	Soil	0.0000267	=	0.00000109	0.000005
1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752215SL	P28	1.5 - 2	SW8290D	07/30/2002	Soil	0.0000011	U	0.0000011	0.000005
1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752220SL	P30	1 - 1.5	SW8290D	07/30/2002	Soil	0.00000034	=	0.0000011	0.000005

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752157SL-AVG	P10	0 - 0.5	SW8290D	07/30/2002	Soil	0.00000825	=		
1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752208SL	P26	0 - 0.5	SW8290D	07/30/2002	Soil	0.000142	=		
1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752217SL	P29	0 - 0.5	SW8290D	07/30/2002	Soil	0.0000389	=		
1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75264SL	S31	1 - 1.5	SW8290D	07/26/2002	Soil	0.0000033	=	0.00000107	0.0000049
1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75270SL	S34	1 - 1.5	SW8290D	07/26/2002	Soil	0.0000066	=	0.00000108	0.0000049
1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75277SL	S38	0 - 0.5	SW8290D	07/26/2002	Soil	0.0000127	=	0.00000109	0.000005
1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75283SL-AVG	S41	0 - 0.5	SW8290D	07/26/2002	Soil	0.0000153	=		
1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Transformer Mounting Area	02B75238SL	T13	0 - 0.5	SW8290D	08/01/2002	Soil	0.000518	=	0.00000109	0.000005
1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Transformer Mounting Area	02B75244SL	T15	0 - 0.5	SW8290D	08/01/2002	Soil	0.000296	=	0.00000109	0.000005
1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B75216SL	T6	0 - 0.5	SW8290D	08/01/2002	Soil	0.0000674	=	0.00000108	0.0000049
1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B75229SL	T10	0 - 0.5	SW8290D	08/01/2002	Soil	0.0000797	=		
1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B752233	T11	0.5 - 1	SW8290D	10/15/2002	Soil	0.0000029	=	0.0000011	0.000005
1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	fiber cable route	LCI 1-1	LCI1	1-2'	8280A	05/10/2001	Soil	0.00005	=		0.00002
1,2,3,4,6,7,8-HEPTACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	fiber cable route	LCI 5-0	LCI5	0-1'	8280A	05/10/2001	Soil	0.00006	=		0.00002
1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752132SL	P1	1.5 - 2	SW8290D	07/30/2002	Soil	0.00000169	U	0.00000169	0.000005
1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752202SL	P24	1 - 1.5	SW8290D	07/30/2002	Soil	0.0000006	=	0.00000169	0.000005
1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752215SL	P28	1.5 - 2	SW8290D	07/30/2002	Soil	0.0000017	U	0.0000017	0.000005
1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752220SL	P30	1 - 1.5	SW8290D	07/30/2002	Soil	0.0000017	U	0.0000017	0.000005
1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752157SL-AVG	P10	0 - 0.5	SW8290D	07/30/2002	Soil	0.0000017	=		
1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752208SL	P26	0 - 0.5	SW8290D	07/30/2002	Soil	0.0000173	=		
1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752217SL	P29	0 - 0.5	SW8290D	07/30/2002	Soil	0.0000237	=		
1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75264SL	S31	1 - 1.5	SW8290D	07/26/2002	Soil	0.00000165	U	0.00000165	0.0000049
1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75270SL	S34	1 - 1.5	SW8290D	07/26/2002	Soil	0.0000012	=	0.00000168	0.0000049
1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75277SL	S38	0 - 0.5	SW8290D	07/26/2002	Soil	0.0000061	=	0.00000169	0.000005
1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75283SL-AVG	S41	0 - 0.5	SW8290D	07/26/2002	Soil	0.0000031	=		
1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Transformer Mounting Area	02B75238SL	T13	0 - 0.5	SW8290D	08/01/2002	Soil	0.0000154	=	0.00000169	0.000005
1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Transformer Mounting Area	02B75244SL	T15	0 - 0.5	SW8290D	08/01/2002	Soil	0.0000196	=	0.00000169	0.000005
1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B75216SL	T6	0 - 0.5	SW8290D	08/01/2002	Soil	0.0000049	=	0.00000167	0.0000049
1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B75229SL	T10	0 - 0.5	SW8290D	08/01/2002	Soil	0.000002	=		
1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B752233	T11	0.5 - 1	SW8290D	10/15/2002	Soil	0.0000014	=	0.0000017	0.000005
1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	DIOXIN/FURANS	fiber cable route	LCI 1-1	LCI1	1-2'	8280A	05/10/2001	Soil	0.00001	U		0.00001
1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	DIOXIN/FURANS	fiber cable route	LCI 5-0	LCI5	0-1'	8280A	05/10/2001	Soil	0.00001	U		0.00001
1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752132SL	P1	1.5 - 2	SW8290D	07/30/2002	Soil	0.00000075	U	0.00000075	0.000005
1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752202SL	P24	1 - 1.5	SW8290D	07/30/2002	Soil	0.00000079	=	0.00000074	0.000005
1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752215SL	P28	1.5 - 2	SW8290D	07/30/2002	Soil	0.00000075	U	0.00000075	0.000005
1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752220SL	P30	1 - 1.5	SW8290D	07/30/2002	Soil	0.00000036	=	0.00000075	0.000005
1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752157SL-AVG	P10	0 - 0.5	SW8290D	07/30/2002	Soil	0.0000035	=		
1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752208SL	P26	0 - 0.5	SW8290D	07/30/2002	Soil	0.0000364	=		
1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752217SL	P29	0 - 0.5	SW8290D	07/30/2002	Soil	0.0000581	=		
1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75264SL	S31	1 - 1.5	SW8290D	07/26/2002	Soil	0.00000044	=	0.00000073	0.0000049
1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75270SL	S34	1 - 1.5	SW8290D	07/26/2002	Soil	0.0000019	=	0.00000074	0.0000049
1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75277SL	S38	0 - 0.5	SW8290D	07/26/2002	Soil	0.0000116	=	0.00000074	0.000005
1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75283SL-AVG	S41	0 - 0.5	SW8290D	07/26/2002	Soil	0.0000027	=		
1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Transformer Mounting Area	02B75238SL	T13	0 - 0.5	SW8290D	08/01/2002	Soil	0.0000097	=	0.00000075	0.000005
1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Transformer Mounting Area	02B75244SL	T15	0 - 0.5	SW8290D	08/01/2002	Soil	0.0000372	=	0.00000074	0.000005
1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B75216SL	T6	0 - 0.5	SW8290D	08/01/2002	Soil	0.000012	=	0.00000074	0.0000049
1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B75229SL	T10	0 - 0.5	SW8290D	08/01/2002	Soil	0.0000016	=		
1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B752233	T11	0.5 - 1	SW8290D	10/15/2002	Soil	0.0000024	=	0.00000075	0.000005
1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	fiber cable route	LCI 1-1	LCI1	1-2'	8280A	05/10/2001	Soil	0.000008	U		0.000008
1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	fiber cable route	LCI 5-0	LCI5	0-1'	8280A	05/10/2001	Soil	0.000008	U		0.000008
1,2,3,4,7,8-HEXACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752132SL	P1	1.5 - 2	SW8290D	07/30/2002	Soil	0.00000094	U	0.00000094	0.000005
1,2,3,4,7,8-HEXACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752202SL	P24	1 - 1.5	SW8290D	07/30/2002	Soil	0.00000093	U	0.00000093	0.000005
1,2,3,4,7,8-HEXACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752215SL	P28	1.5 - 2	SW8290D	07/30/2002	Soil	0.00000094	U	0.00000094	0.000005
1,2,3,4,7,8-HEXACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752220SL	P30	1 - 1.5	SW8290D	07/30/2002	Soil	0.00000094	U	0.00000094	0.000005
1,2,3,4,7,8-HEXACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752157SL-AVG	P10	0 - 0.5	SW8290D	07/30/2002	Soil	0.00000093	U		
1,2,3,4,7,8-HEXACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752208SL	P26	0 - 0.5	SW8290D	07/30/2002	Soil	0.0000011	=		
1,2,3,4,7,8-HEXACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752217SL	P29	0 - 0.5	SW8290D	07/30/2002	Soil	0.00000094	U		
1,2,3,4,7,8-HEXACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75264SL	S31	1 - 1.5	SW8290D	07/26/2002	Soil	0.00000092	U	0.00000092	0.0000049
1,2,3,4,7,8-HEXACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75270SL	S34	1 - 1.5	SW8290D	07/26/2002	Soil	0.00000093	U	0.00000093	0.0000049
1,2,3,4,7,8-HEXACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75277SL	S38	0 - 0.5	SW8290D	07/26/2002	Soil	0.00000093	U	0.00000093	0.000005
1,2,3,4,7,8-HEXACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75283SL-AVG	S41	0 - 0.5	SW8290D	07/26/2002	Soil	0.00000094	U		
1,2,3,4,7,8-HEXACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Transformer Mounting Area	02B75238SL	T13	0 - 0.5	SW8290D	08/01/2002	Soil	0.0000026	=	0.00000094	0.000005

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
1,2,3,4,7,8-HEXACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Transformer Mounting Area	02B75244SL	T15	0 - 0.5	SW8290D	08/01/2002	Soil	0.0000023	=	0.00000093	0.000005
1,2,3,4,7,8-HEXACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B75216SL	T6	0 - 0.5	SW8290D	08/01/2002	Soil	0.00000063	=	0.00000092	0.0000049
1,2,3,4,7,8-HEXACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B75229SL	T10	0 - 0.5	SW8290D	08/01/2002	Soil	0.00000094	U		
1,2,3,4,7,8-HEXACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B752233	T11	0.5 - 1	SW8290D	10/15/2002	Soil	0.00000094	U	0.00000094	0.000005
1,2,3,4,7,8-HEXACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	fiber cable route	LCI 1-1	LCI1	1-2'	8280A	05/10/2001	Soil	0.00001	U		0.00001
1,2,3,4,7,8-HEXACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	fiber cable route	LCI 5-0	LCI5	0-1'	8280A	05/10/2001	Soil	0.00001	U		0.00001
1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752132SL	P1	1.5 - 2	SW8290D	07/30/2002	Soil	0.000001	U	0.000001	0.000005
1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752202SL	P24	1 - 1.5	SW8290D	07/30/2002	Soil	0.00000032	=	0.00000099	0.000005
1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752215SL	P28	1.5 - 2	SW8290D	07/30/2002	Soil	0.000001	U	0.000001	0.000005
1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752220SL	P30	1 - 1.5	SW8290D	07/30/2002	Soil	0.000001	U	0.000001	0.000005
1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752157SL-AVG	P10	0 - 0.5	SW8290D	07/30/2002	Soil	0.000000585	=		
1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752208SL	P26	0 - 0.5	SW8290D	07/30/2002	Soil	0.0000044	=		
1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752217SL	P29	0 - 0.5	SW8290D	07/30/2002	Soil	0.0000068	=		
1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75264SL	S31	1 - 1.5	SW8290D	07/26/2002	Soil	0.00000026	=	0.00000097	0.0000049
1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75270SL	S34	1 - 1.5	SW8290D	07/26/2002	Soil	0.00000039	=	0.00000099	0.0000049
1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75277SL	S38	0 - 0.5	SW8290D	07/26/2002	Soil	0.0000015	=	0.00000099	0.000005
1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75283SL-AVG	S41	0 - 0.5	SW8290D	07/26/2002	Soil	0.000001	U		
1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Transformer Mounting Area	02B75238SL	T13	0 - 0.5	SW8290D	08/01/2002	Soil	0.0000022	=	0.000001	0.000005
1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Transformer Mounting Area	02B75244SL	T15	0 - 0.5	SW8290D	08/01/2002	Soil	0.0000064	=	0.00000099	0.000005
1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B75216SL	T6	0 - 0.5	SW8290D	08/01/2002	Soil	0.0000026	=	0.00000098	0.0000049
1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B75229SL	T10	0 - 0.5	SW8290D	08/01/2002	Soil	0.00000091	=		
1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B752233	T11	0.5 - 1	SW8290D	10/15/2002	Soil	0.0000004	=	0.000001	0.000005
1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	fiber cable route	LCI 1-1	LCI1	1-2'	8280A	05/10/2001	Soil	0.00001	U		0.00001
1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	fiber cable route	LCI 5-0	LCI5	0-1'	8280A	05/10/2001	Soil	0.00001	U		0.00001
1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752132SL	P1	1.5 - 2	SW8290D	07/30/2002	Soil	0.00000149	U	0.00000149	0.000005
1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752202SL	P24	1 - 1.5	SW8290D	07/30/2002	Soil	0.000001	=	0.00000149	0.000005
1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752215SL	P28	1.5 - 2	SW8290D	07/30/2002	Soil	0.0000015	U	0.0000015	0.000005
1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752220SL	P30	1 - 1.5	SW8290D	07/30/2002	Soil	0.0000015	U	0.0000015	0.000005
1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752157SL-AVG	P10	0 - 0.5	SW8290D	07/30/2002	Soil	0.00000031	=		
1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752208SL	P26	0 - 0.5	SW8290D	07/30/2002	Soil	0.0000037	=		
1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752217SL	P29	0 - 0.5	SW8290D	07/30/2002	Soil	0.0000017	=		
1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75264SL	S31	1 - 1.5	SW8290D	07/26/2002	Soil	0.00000031	=	0.00000146	0.0000049
1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75270SL	S34	1 - 1.5	SW8290D	07/26/2002	Soil	0.00000031	=	0.00000148	0.0000049
1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75277SL	S38	0 - 0.5	SW8290D	07/26/2002	Soil	0.00000149	U	0.00000149	0.000005
1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75283SL-AVG	S41	0 - 0.5	SW8290D	07/26/2002	Soil	0.00000149	U		
1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Transformer Mounting Area	02B75238SL	T13	0 - 0.5	SW8290D	08/01/2002	Soil	0.0000117	=	0.00000149	0.000005
1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Transformer Mounting Area	02B75244SL	T15	0 - 0.5	SW8290D	08/01/2002	Soil	0.0000073	=	0.00000149	0.000005
1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B75216SL	T6	0 - 0.5	SW8290D	08/01/2002	Soil	0.0000028	=	0.00000147	0.0000049
1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B75229SL	T10	0 - 0.5	SW8290D	08/01/2002	Soil	0.0000019	=		
1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B752233	T11	0.5 - 1	SW8290D	10/15/2002	Soil	0.0000015	U	0.0000015	0.000005
1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	DIOXIN/FURANS	fiber cable route	LCI 1-1	LCI1	1-2'	8280A	05/10/2001	Soil	0.00002	U		0.00002
1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	DIOXIN/FURANS	fiber cable route	LCI 5-0	LCI5	0-1'	8280A	05/10/2001	Soil	0.00002	U		0.00002
1,2,3,7,8,9-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752132SL	P1	1.5 - 2	SW8290D	07/30/2002	Soil	0.00000039	U	0.00000039	0.000005
1,2,3,7,8,9-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752202SL	P24	1 - 1.5	SW8290D	07/30/2002	Soil	0.00000039	U	0.00000039	0.000005
1,2,3,7,8,9-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752215SL	P28	1.5 - 2	SW8290D	07/30/2002	Soil	0.00000039	U	0.00000039	0.000005
1,2,3,7,8,9-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752220SL	P30	1 - 1.5	SW8290D	07/30/2002	Soil	0.00000039	U	0.00000039	0.000005
1,2,3,7,8,9-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752157SL-AVG	P10	0 - 0.5	SW8290D	07/30/2002	Soil	0.00000039	U		
1,2,3,7,8,9-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752208SL	P26	0 - 0.5	SW8290D	07/30/2002	Soil	0.00000039	U		
1,2,3,7,8,9-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752217SL	P29	0 - 0.5	SW8290D	07/30/2002	Soil	0.00000039	U		
1,2,3,7,8,9-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75264SL	S31	1 - 1.5	SW8290D	07/26/2002	Soil	0.00000038	U	0.00000038	0.0000049
1,2,3,7,8,9-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75270SL	S34	1 - 1.5	SW8290D	07/26/2002	Soil	0.00000038	U	0.00000038	0.0000049
1,2,3,7,8,9-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75277SL	S38	0 - 0.5	SW8290D	07/26/2002	Soil	0.00000039	U	0.00000039	0.000005
1,2,3,7,8,9-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75283SL-AVG	S41	0 - 0.5	SW8290D	07/26/2002	Soil	0.00000039	U		
1,2,3,7,8,9-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Transformer Mounting Area	02B75238SL	T13	0 - 0.5	SW8290D	08/01/2002	Soil	0.00000039	U	0.00000039	0.000005
1,2,3,7,8,9-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Transformer Mounting Area	02B75244SL	T15	0 - 0.5	SW8290D	08/01/2002	Soil	0.00000039	U	0.00000039	0.000005
1,2,3,7,8,9-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B75216SL	T6	0 - 0.5	SW8290D	08/01/2002	Soil	0.00000038	U	0.00000038	0.0000049
1,2,3,7,8,9-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B75229SL	T10	0 - 0.5	SW8290D	08/01/2002	Soil	0.00000039	U		
1,2,3,7,8,9-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B752233	T11	0.5 - 1	SW8290D	10/15/2002	Soil	0.00000039	U	0.00000039	0.000005
1,2,3,7,8,9-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	fiber cable route	LCI 1-1	LCI1	1-2'	8280A	05/10/2001	Soil	0.00001	U		0.00001
1,2,3,7,8,9-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	fiber cable route	LCI 5-0	LCI5	0-1'	8280A	05/10/2001	Soil	0.00001	U		0.00001
1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752132SL	P1	1.5 - 2	SW8290D	07/30/2002	Soil	0.00000139	U	0.00000139	0.000005
1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752202SL	P24	1 - 1.5	SW8290D	07/30/2002	Soil	0.00000066	=	0.00000139	0.000005

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752215SL	P28	1.5 - 2	SW8290D	07/30/2002	Soil	0.0000014	U	0.0000014	0.000005
1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752220SL	P30	1 - 1.5	SW8290D	07/30/2002	Soil	0.0000014	U	0.0000014	0.000005
1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752157SL-AVG	P10	0 - 0.5	SW8290D	07/30/2002	Soil	0.00000139	U		
1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752208SL	P26	0 - 0.5	SW8290D	07/30/2002	Soil	0.0000031	=		
1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752217SL	P29	0 - 0.5	SW8290D	07/30/2002	Soil	0.0000016	=		
1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75264SL	S31	1 - 1.5	SW8290D	07/26/2002	Soil	0.00000136	U	0.00000136	0.0000049
1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75270SL	S34	1 - 1.5	SW8290D	07/26/2002	Soil	0.00000138	U	0.00000138	0.0000049
1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75277SL	S38	0 - 0.5	SW8290D	07/26/2002	Soil	0.00000139	U	0.00000139	0.000005
1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75283SL-AVG	S41	0 - 0.5	SW8290D	07/26/2002	Soil	0.00000139	U		
1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Transformer Mounting Area	02B75238SL	T13	0 - 0.5	SW8290D	08/01/2002	Soil	0.0000062	=	0.00000139	0.000005
1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Transformer Mounting Area	02B75244SL	T15	0 - 0.5	SW8290D	08/01/2002	Soil	0.0000047	=	0.00000139	0.000005
1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B75216SL	T6	0 - 0.5	SW8290D	08/01/2002	Soil	0.0000016	=	0.00000138	0.0000049
1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B75229SL	T10	0 - 0.5	SW8290D	08/01/2002	Soil	0.0000016	=		
1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B752233	T11	0.5 - 1	SW8290D	10/15/2002	Soil	0.0000014	U	0.0000014	0.000005
1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	DIOXIN/FURANS	fiber cable route	LCI 1-1	LCI1	1-2'	8280A	05/10/2001	Soil	0.00001	U		0.00001
1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	DIOXIN/FURANS	fiber cable route	LCI 5-0	LCI5	0-1'	8280A	05/10/2001	Soil	0.00001	U		0.00001
1,2,3,7,8-PENTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752132SL	P1	1.5 - 2	SW8290D	07/30/2002	Soil	0.00000095	U	0.00000095	0.000005
1,2,3,7,8-PENTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752202SL	P24	1 - 1.5	SW8290D	07/30/2002	Soil	0.00000094	U	0.00000094	0.000005
1,2,3,7,8-PENTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752215SL	P28	1.5 - 2	SW8290D	07/30/2002	Soil	0.00000095	U	0.00000095	0.000005
1,2,3,7,8-PENTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752220SL	P30	1 - 1.5	SW8290D	07/30/2002	Soil	0.00000095	U	0.00000095	0.000005
1,2,3,7,8-PENTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752157SL-AVG	P10	0 - 0.5	SW8290D	07/30/2002	Soil	0.00000094	U		
1,2,3,7,8-PENTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752208SL	P26	0 - 0.5	SW8290D	07/30/2002	Soil	0.00000094	U		
1,2,3,7,8-PENTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752217SL	P29	0 - 0.5	SW8290D	07/30/2002	Soil	0.00000095	U		
1,2,3,7,8-PENTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75264SL	S31	1 - 1.5	SW8290D	07/26/2002	Soil	0.00000092	U	0.00000092	0.0000049
1,2,3,7,8-PENTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75270SL	S34	1 - 1.5	SW8290D	07/26/2002	Soil	0.00000094	U	0.00000094	0.0000049
1,2,3,7,8-PENTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75277SL	S38	0 - 0.5	SW8290D	07/26/2002	Soil	0.00000094	U	0.00000094	0.000005
1,2,3,7,8-PENTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75283SL-AVG	S41	0 - 0.5	SW8290D	07/26/2002	Soil	0.00000095	U		
1,2,3,7,8-PENTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Transformer Mounting Area	02B75238SL	T13	0 - 0.5	SW8290D	08/01/2002	Soil	0.0000832	=	0.00000095	0.000005
1,2,3,7,8-PENTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Transformer Mounting Area	02B75244SL	T15	0 - 0.5	SW8290D	08/01/2002	Soil	0.00000094	U	0.00000094	0.000005
1,2,3,7,8-PENTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B75216SL	T6	0 - 0.5	SW8290D	08/01/2002	Soil	0.00000093	U	0.00000093	0.0000049
1,2,3,7,8-PENTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B75229SL	T10	0 - 0.5	SW8290D	08/01/2002	Soil	0.00000095	U		
1,2,3,7,8-PENTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B752233	T11	0.5 - 1	SW8290D	10/15/2002	Soil	0.00000095	U	0.00000095	0.000005
1,2,3,7,8-PENTACHLORODIBENZOFURAN	DIOXIN/FURANS	fiber cable route	LCI 1-1	LCI1	1-2'	8280A	05/10/2001	Soil	0.000007	U		0.000007
1,2,3,7,8-PENTACHLORODIBENZOFURAN	DIOXIN/FURANS	fiber cable route	LCI 5-0	LCI5	0-1'	8280A	05/10/2001	Soil	0.000007	U		0.000007
1,2,3,7,8-PENTACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752132SL	P1	1.5 - 2	SW8290D	07/30/2002	Soil	0.00000049	U	0.00000049	0.000005
1,2,3,7,8-PENTACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752202SL	P24	1 - 1.5	SW8290D	07/30/2002	Soil	0.00000049	U	0.00000049	0.000005
1,2,3,7,8-PENTACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752215SL	P28	1.5 - 2	SW8290D	07/30/2002	Soil	0.00000049	U	0.00000049	0.000005
1,2,3,7,8-PENTACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752220SL	P30	1 - 1.5	SW8290D	07/30/2002	Soil	0.00000049	U	0.00000049	0.000005
1,2,3,7,8-PENTACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752157SL-AVG	P10	0 - 0.5	SW8290D	07/30/2002	Soil	0.00000049	U		
1,2,3,7,8-PENTACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752208SL	P26	0 - 0.5	SW8290D	07/30/2002	Soil	0.00000049	U		
1,2,3,7,8-PENTACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752217SL	P29	0 - 0.5	SW8290D	07/30/2002	Soil	0.00000049	U		
1,2,3,7,8-PENTACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75264SL	S31	1 - 1.5	SW8290D	07/26/2002	Soil	0.00000048	U	0.00000048	0.0000049
1,2,3,7,8-PENTACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75270SL	S34	1 - 1.5	SW8290D	07/26/2002	Soil	0.00000048	U	0.00000048	0.0000049
1,2,3,7,8-PENTACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75277SL	S38	0 - 0.5	SW8290D	07/26/2002	Soil	0.00000049	U	0.00000049	0.000005
1,2,3,7,8-PENTACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75283SL-AVG	S41	0 - 0.5	SW8290D	07/26/2002	Soil	0.00000049	U		
1,2,3,7,8-PENTACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Transformer Mounting Area	02B75238SL	T13	0 - 0.5	SW8290D	08/01/2002	Soil	0.00000064	=	0.00000049	0.000005
1,2,3,7,8-PENTACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Transformer Mounting Area	02B75244SL	T15	0 - 0.5	SW8290D	08/01/2002	Soil	0.00000049	U	0.00000049	0.000005
1,2,3,7,8-PENTACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B75216SL	T6	0 - 0.5	SW8290D	08/01/2002	Soil	0.00000048	U	0.00000048	0.0000049
1,2,3,7,8-PENTACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B75229SL	T10	0 - 0.5	SW8290D	08/01/2002	Soil	0.00000049	U		
1,2,3,7,8-PENTACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B752233	T11	0.5 - 1	SW8290D	10/15/2002	Soil	0.00000049	U	0.00000049	0.000005
1,2,3,7,8-PENTACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	fiber cable route	LCI 1-1	LCI1	1-2'	8280A	05/10/2001	Soil	0.00002	U		0.00002
1,2,3,7,8-PENTACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	fiber cable route	LCI 5-0	LCI5	0-1'	8280A	05/10/2001	Soil	0.00002	U		0.00002
1,2,3-TRICHLOROBENZENE	VOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
1,2,3-TRICHLOROBENZENE	VOC	Cooling Pond	94575242SD	SD-B	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
1,2,3-TRICHLOROBENZENE	VOC	Cooling Pond	94575243SD	SD-C	0-6"	8260	12/08/1994	Sediment	0.04	U		0.04
1,2,3-TRICHLOROBENZENE	VOC	Cooling Pond	94575244SD	SD-D	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
1,2,3-TRICHLOROBENZENE	VOC	Cooling Pond	94575245SD	SD-E	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
1,2,3-TRICHLOROBENZENE	VOC	Cooling Pond	94575246SD	SD-F	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
1,2,3-TRICHLOROBENZENE	VOC	Cooling Pond	94575247SD	SD-G	0-6"	8260	12/08/1994	Sediment	0.04	U		0.04
1,2,3-TRICHLOROBENZENE	VOC	Cooling Pond	94575248SD	SD-H	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
1,2,3-TRICHLOROBENZENE	VOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.04
1,2,3-TRICHLOROBENZENE	VOC	119 ft from DP	96575205SD	96-SD5	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.04

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
1,2,3-TRICHLOROBENZENE	VOC	147 ft from DP	96575206SD	96-SD6	----	8260	09/25/1996	Sediment	0.0006	U	0.0006	0.02
1,2,3-TRICHLOROBENZENE	VOC	165 ft from DP	96575208SD	96-SD8	----	8260	09/25/1996	Sediment	0.0006	U	0.0006	0.02
1,2,3-TRICHLOROBENZENE	VOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8260	09/25/1996	Sediment	0.0006	U	0.0006	0.02
1,2,3-TRICHLOROBENZENE	VOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.06
1,2,3-TRICHLOROBENZENE	VOC	40 ft from DP	96575202SD	96-SD2	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.04
1,2,3-TRICHLOROBENZENE	VOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.04
1,2,3-TRICHLOROBENZENE	VOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8260	09/25/1996	Sediment	0.0006	U	0.0006	0.02
1,2,3-TRICHLOROBENZENE	VOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8260	09/26/1996	Sediment	0.002	U	0.002	0.04
1,2,3-TRICHLOROBENZENE	VOC	Drum Accumulation Area	94575210SL	SS 8	2'	8260	10/06/1994	Soil	0.02	U		0.02
1,2,3-TRICHLOROBENZENE	VOC	Drum Accumulation Area	94575211SL	SS 7	2'	8260	10/10/1994	Soil	0.02	U		0.02
1,2,3-TRICHLOROBENZENE	VOC	Drum Accumulation Area	94575212SL	SS 6	2'	8260	10/10/1994	Soil	0.02	U		0.02
1,2,3-TRICHLOROBENZENE	VOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8260	10/10/1994	Soil	0.02	U		0.02
1,2,3-TRICHLOROBENZENE	VOC	Drum Accumulation Area	94575215SL	SS 4	2'	8260	10/10/1994	Soil	0.02	U		0.02
1,2,3-TRICHLOROBENZENE	VOC	Drum Accumulation Area	94575216SL	SS 3	2'	8260	10/10/1994	Soil	0.02	U		0.02
1,2,3-TRICHLOROBENZENE	VOC	Drum Accumulation Area	94575217SL	SS 2	2'	8260	10/10/1994	Soil	0.02	U		0.02
1,2,3-TRICHLOROBENZENE	VOC	Drum Accumulation Area	94575218SL	SS 1	2'	8260	10/10/1994	Soil	0.02	U		0.02
1,2,3-TRICHLOROBENZENE	VOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8260	11/03/1994	Soil	0.02	U		0.02
1,2,3-TRICHLOROBENZENE	VOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8260	11/03/1994	Soil	0.02	U		0.02
1,2,3-TRICHLOROBENZENE	VOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8260	11/07/1994	Soil	0.02	U		0.02
1,2,3-TRICHLOROBENZENE	VOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8260	11/09/1994	Soil	0.02	U		0.02
1,2,3-TRICHLOROBENZENE	VOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8260	11/11/1994	Soil	0.02	U		0.02
1,2,3-TRICHLOROBENZENE	VOC	965752BH01	96575225SL	AP-3785	5	8260	10/02/1996	Soil	0.0006	U	0.0006	0.0006
1,2,3-TRICHLOROBENZENE	VOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8260	10/03/1996	Soil	0.0006	U	0.0006	0.0006
1,2,3-TRICHLOROBENZENE	VOC	965752BH04	96575238SL	AP-3788	2.5	8260	10/03/1996	Soil	0.0006	U	0.0006	0.0006
1,2,3-TRICHLOROBENZENE	VOC	965752BH04	96575239SL-AVG	AP-3788	5	8260	10/03/1996	Soil	0.0006	U	0.0006	0.0006
1,2,3-TRICHLOROBENZENE	VOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8260	10/06/1994	Soil	0.02	U		0.02
1,2,3-TRICHLOROBENZENE	VOC	Drum Accumulation Area	94575203SL	SS 2	6"	8260	10/06/1994	Soil	0.02	U		0.02
1,2,3-TRICHLOROBENZENE	VOC	Drum Accumulation Area	94575204SL	SS 3	6"	8260	10/06/1994	Soil	0.02	U		0.02
1,2,3-TRICHLOROBENZENE	VOC	Drum Accumulation Area	94575205SL	SS 4	6"	8260	10/06/1994	Soil	0.02	U		0.02
1,2,3-TRICHLOROBENZENE	VOC	Drum Accumulation Area	94575206SL	SS 5	6"	8260	10/06/1994	Soil	0.02	U		0.02
1,2,3-TRICHLOROBENZENE	VOC	Drum Accumulation Area	94575207SL	SS 6	6"	8260	10/06/1994	Soil	0.02	U		0.02
1,2,3-TRICHLOROBENZENE	VOC	Drum Accumulation Area	94575208SL	SS 7	6"	8260	10/06/1994	Soil	0.02	U		0.02
1,2,3-TRICHLOROBENZENE	VOC	Drum Accumulation Area	94575209SL	SS 8	6"	8260	10/06/1994	Soil	0.02	U		0.02
1,2,3-TRICHLOROBENZENE	VOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8260	11/03/1994	Soil	0.02	U		0.02
1,2,3-TRICHLOROBENZENE	VOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8260	11/03/1994	Soil	0.02	U		0.02
1,2,3-TRICHLOROBENZENE	VOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8260	11/07/1994	Soil	0.02	U		0.02
1,2,3-TRICHLOROBENZENE	VOC	Cooling Pond	94575231SL	AP-3503	0-6'	8260	11/08/1994	Soil	0.02	U		0.02
1,2,3-TRICHLOROBENZENE	VOC	Cooling Pond	94575235SL	AP-3504	0-2'	8260	11/09/1994	Soil	0.02	U		0.02
1,2,3-TRICHLOROBENZENE	VOC	965752BH03	96575230SL	AP-3787	0	8260	10/03/1996	Soil	0.0006	U	0.0006	0.02
1,2,3-TRICHLOROBENZENE	VOC	965752BH04	96575236SL-AVG	AP-3788	0	8260	10/03/1996	Soil	0.0006	U	0.0006	0.02
1,2,3-TRICHLOROPROPANE	VOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,2,3-TRICHLOROPROPANE	VOC	Cooling Pond	94575242SD	SD-B	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,2,3-TRICHLOROPROPANE	VOC	Cooling Pond	94575243SD	SD-C	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
1,2,3-TRICHLOROPROPANE	VOC	Cooling Pond	94575244SD	SD-D	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,2,3-TRICHLOROPROPANE	VOC	Cooling Pond	94575245SD	SD-E	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,2,3-TRICHLOROPROPANE	VOC	Cooling Pond	94575246SD	SD-F	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,2,3-TRICHLOROPROPANE	VOC	Cooling Pond	94575247SD	SD-G	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
1,2,3-TRICHLOROPROPANE	VOC	Cooling Pond	94575248SD	SD-H	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,2,3-TRICHLOROPROPANE	VOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
1,2,3-TRICHLOROPROPANE	VOC	119 ft from DP	96575205SD	96-SD5	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
1,2,3-TRICHLOROPROPANE	VOC	147 ft from DP	96575206SD	96-SD6	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
1,2,3-TRICHLOROPROPANE	VOC	165 ft from DP	96575208SD	96-SD8	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
1,2,3-TRICHLOROPROPANE	VOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
1,2,3-TRICHLOROPROPANE	VOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8260	09/25/1996	Sediment	0.006	U	0.006	0.015
1,2,3-TRICHLOROPROPANE	VOC	40 ft from DP	96575202SD	96-SD2	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
1,2,3-TRICHLOROPROPANE	VOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
1,2,3-TRICHLOROPROPANE	VOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
1,2,3-TRICHLOROPROPANE	VOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8260	09/26/1996	Sediment	0.004	U	0.004	0.01
1,2,3-TRICHLOROPROPANE	VOC	Drum Accumulation Area	94575210SL	SS 8	2'	8260	10/06/1994	Soil	0.005	U		0.005
1,2,3-TRICHLOROPROPANE	VOC	Drum Accumulation Area	94575211SL	SS 7	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,2,3-TRICHLOROPROPANE	VOC	Drum Accumulation Area	94575212SL	SS 6	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,2,3-TRICHLOROPROPANE	VOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8260	10/10/1994	Soil	0.005	U		0.005

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
1,2,3-TRICHLOROPROPANE	VOC	Drum Accumulation Area	94575215SL	SS 4	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,2,3-TRICHLOROPROPANE	VOC	Drum Accumulation Area	94575216SL	SS 3	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,2,3-TRICHLOROPROPANE	VOC	Drum Accumulation Area	94575217SL	SS 2	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,2,3-TRICHLOROPROPANE	VOC	Drum Accumulation Area	94575218SL	SS 1	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,2,3-TRICHLOROPROPANE	VOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8260	11/03/1994	Soil	0.005	U		0.005
1,2,3-TRICHLOROPROPANE	VOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8260	11/03/1994	Soil	0.005	U		0.005
1,2,3-TRICHLOROPROPANE	VOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8260	11/07/1994	Soil	0.005	U		0.005
1,2,3-TRICHLOROPROPANE	VOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8260	11/09/1994	Soil	0.005	U		0.005
1,2,3-TRICHLOROPROPANE	VOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8260	11/11/1994	Soil	0.005	U		0.005
1,2,3-TRICHLOROPROPANE	VOC	965752BH01	96575225SL	AP-3785	5	8260	10/02/1996	Soil	0.002	U	0.002	0.002
1,2,3-TRICHLOROPROPANE	VOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
1,2,3-TRICHLOROPROPANE	VOC	965752BH04	96575238SL	AP-3788	2.5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
1,2,3-TRICHLOROPROPANE	VOC	965752BH04	96575239SL-AVG	AP-3788	5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
1,2,3-TRICHLOROPROPANE	VOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,2,3-TRICHLOROPROPANE	VOC	Drum Accumulation Area	94575203SL	SS 2	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,2,3-TRICHLOROPROPANE	VOC	Drum Accumulation Area	94575204SL	SS 3	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,2,3-TRICHLOROPROPANE	VOC	Drum Accumulation Area	94575205SL	SS 4	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,2,3-TRICHLOROPROPANE	VOC	Drum Accumulation Area	94575206SL	SS 5	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,2,3-TRICHLOROPROPANE	VOC	Drum Accumulation Area	94575207SL	SS 6	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,2,3-TRICHLOROPROPANE	VOC	Drum Accumulation Area	94575208SL	SS 7	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,2,3-TRICHLOROPROPANE	VOC	Drum Accumulation Area	94575209SL	SS 8	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,2,3-TRICHLOROPROPANE	VOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8260	11/03/1994	Soil	0.005	U		0.005
1,2,3-TRICHLOROPROPANE	VOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8260	11/03/1994	Soil	0.005	U		0.005
1,2,3-TRICHLOROPROPANE	VOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8260	11/07/1994	Soil	0.005	U		0.005
1,2,3-TRICHLOROPROPANE	VOC	Cooling Pond	94575231SL	AP-3503	0-6'	8260	11/08/1994	Soil	0.005	U		0.005
1,2,3-TRICHLOROPROPANE	VOC	Cooling Pond	94575235SL	AP-3504	0-2'	8260	11/09/1994	Soil	0.005	U		0.005
1,2,3-TRICHLOROPROPANE	VOC	965752BH03	96575230SL	AP-3787	0	8260	10/03/1996	Soil	0.002	U	0.002	0.005
1,2,3-TRICHLOROPROPANE	VOC	965752BH04	96575236SL-AVG	AP-3788	0	8260	10/03/1996	Soil	0.002	U	0.002	0.005
1,2,4-TRICHLOROBENZENE	VOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
1,2,4-TRICHLOROBENZENE	VOC	Cooling Pond	94575242SD	SD-B	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
1,2,4-TRICHLOROBENZENE	VOC	Cooling Pond	94575243SD	SD-C	0-6"	8260	12/08/1994	Sediment	0.04	U		0.04
1,2,4-TRICHLOROBENZENE	VOC	Cooling Pond	94575244SD	SD-D	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
1,2,4-TRICHLOROBENZENE	VOC	Cooling Pond	94575245SD	SD-E	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
1,2,4-TRICHLOROBENZENE	VOC	Cooling Pond	94575246SD	SD-F	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
1,2,4-TRICHLOROBENZENE	VOC	Cooling Pond	94575247SD	SD-G	0-6"	8260	12/08/1994	Sediment	0.04	U		0.04
1,2,4-TRICHLOROBENZENE	VOC	Cooling Pond	94575248SD	SD-H	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
1,2,4-TRICHLOROBENZENE	VOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.04
1,2,4-TRICHLOROBENZENE	VOC	119 ft from DP	96575205SD	96-SD5	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.04
1,2,4-TRICHLOROBENZENE	VOC	147 ft from DP	96575206SD	96-SD6	----	8260	09/25/1996	Sediment	0.0006	U	0.0006	0.02
1,2,4-TRICHLOROBENZENE	VOC	165 ft from DP	96575208SD	96-SD8	----	8260	09/25/1996	Sediment	0.0006	U	0.0006	0.02
1,2,4-TRICHLOROBENZENE	VOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8260	09/25/1996	Sediment	0.0006	U	0.0006	0.02
1,2,4-TRICHLOROBENZENE	VOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.06
1,2,4-TRICHLOROBENZENE	VOC	40 ft from DP	96575202SD	96-SD2	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.04
1,2,4-TRICHLOROBENZENE	VOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.04
1,2,4-TRICHLOROBENZENE	VOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8260	09/25/1996	Sediment	0.0006	U	0.0006	0.02
1,2,4-TRICHLOROBENZENE	VOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8260	09/26/1996	Sediment	0.002	U	0.002	0.04
1,2,4-TRICHLOROBENZENE	VOC	Drum Accumulation Area	94575210SL	SS 8	2'	8260	10/06/1994	Soil	0.02	U		0.02
1,2,4-TRICHLOROBENZENE	VOC	Drum Accumulation Area	94575211SL	SS 7	2'	8260	10/10/1994	Soil	0.02	U		0.02
1,2,4-TRICHLOROBENZENE	VOC	Drum Accumulation Area	94575212SL	SS 6	2'	8260	10/10/1994	Soil	0.02	U		0.02
1,2,4-TRICHLOROBENZENE	VOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8260	10/10/1994	Soil	0.02	U		0.02
1,2,4-TRICHLOROBENZENE	VOC	Drum Accumulation Area	94575215SL	SS 4	2'	8260	10/10/1994	Soil	0.02	U		0.02
1,2,4-TRICHLOROBENZENE	VOC	Drum Accumulation Area	94575216SL	SS 3	2'	8260	10/10/1994	Soil	0.02	U		0.02
1,2,4-TRICHLOROBENZENE	VOC	Drum Accumulation Area	94575217SL	SS 2	2'	8260	10/10/1994	Soil	0.02	U		0.02
1,2,4-TRICHLOROBENZENE	VOC	Drum Accumulation Area	94575218SL	SS 1	2'	8260	10/10/1994	Soil	0.02	U		0.02
1,2,4-TRICHLOROBENZENE	VOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8260	11/03/1994	Soil	0.02	U		0.02
1,2,4-TRICHLOROBENZENE	VOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8260	11/03/1994	Soil	0.02	U		0.02
1,2,4-TRICHLOROBENZENE	VOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8260	11/07/1994	Soil	0.02	U		0.02
1,2,4-TRICHLOROBENZENE	VOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8260	11/09/1994	Soil	0.02	U		0.02
1,2,4-TRICHLOROBENZENE	VOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8260	11/11/1994	Soil	0.02	U		0.02
1,2,4-TRICHLOROBENZENE	VOC	965752BH01	96575225SL	AP-3785	5	8260	10/02/1996	Soil	0.0006	U	0.0006	0.0006
1,2,4-TRICHLOROBENZENE	VOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8260	10/03/1996	Soil	0.0006	U	0.0006	0.0006
1,2,4-TRICHLOROBENZENE	VOC	965752BH04	96575238SL	AP-3788	2.5	8260	10/03/1996	Soil	0.0006	U	0.0006	0.0006

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
1,2,4-TRICHLOROBENZENE	VOC	965752BH04	96575239SL-AVG	AP-3788	5	8260	10/03/1996	Soil	0.0006	U	0.0006	0.0006
1,2,4-TRICHLOROBENZENE	VOC	965752BH03	96575233SL	AP-3787	5	8270	10/03/1996	Soil	0.05	U	0.05	0.05
1,2,4-TRICHLOROBENZENE	VOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8260	10/06/1994	Soil	0.02	U		0.02
1,2,4-TRICHLOROBENZENE	VOC	Drum Accumulation Area	94575203SL	SS 2	6"	8260	10/06/1994	Soil	0.02	U		0.02
1,2,4-TRICHLOROBENZENE	VOC	Drum Accumulation Area	94575204SL	SS 3	6"	8260	10/06/1994	Soil	0.02	U		0.02
1,2,4-TRICHLOROBENZENE	VOC	Drum Accumulation Area	94575205SL	SS 4	6"	8260	10/06/1994	Soil	0.02	U		0.02
1,2,4-TRICHLOROBENZENE	VOC	Drum Accumulation Area	94575206SL	SS 5	6"	8260	10/06/1994	Soil	0.02	U		0.02
1,2,4-TRICHLOROBENZENE	VOC	Drum Accumulation Area	94575207SL	SS 6	6"	8260	10/06/1994	Soil	0.02	U		0.02
1,2,4-TRICHLOROBENZENE	VOC	Drum Accumulation Area	94575208SL	SS 7	6"	8260	10/06/1994	Soil	0.02	U		0.02
1,2,4-TRICHLOROBENZENE	VOC	Drum Accumulation Area	94575209SL	SS 8	6"	8260	10/06/1994	Soil	0.02	U		0.02
1,2,4-TRICHLOROBENZENE	VOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8260	11/03/1994	Soil	0.02	U		0.02
1,2,4-TRICHLOROBENZENE	VOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8260	11/03/1994	Soil	0.02	U		0.02
1,2,4-TRICHLOROBENZENE	VOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8260	11/07/1994	Soil	0.02	U		0.02
1,2,4-TRICHLOROBENZENE	VOC	Cooling Pond	94575231SL	AP-3503	0-6'	8260	11/08/1994	Soil	0.02	U		0.02
1,2,4-TRICHLOROBENZENE	VOC	Cooling Pond	94575235SL	AP-3504	0-2'	8260	11/09/1994	Soil	0.02	U		0.02
1,2,4-TRICHLOROBENZENE	VOC	965752BH03	96575230SL	AP-3787	0	8260	10/03/1996	Soil	0.0006	U	0.0006	0.02
1,2,4-TRICHLOROBENZENE	VOC	965752BH04	96575236SL-AVG	AP-3788	0	8260	10/03/1996	Soil	0.0006	U	0.0006	0.02
1,2,4-TRIMETHYLBENZENE	VOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
1,2,4-TRIMETHYLBENZENE	VOC	Cooling Pond	94575242SD	SD-B	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
1,2,4-TRIMETHYLBENZENE	VOC	Cooling Pond	94575243SD	SD-C	0-6"	8260	12/08/1994	Sediment	0.04	U		0.04
1,2,4-TRIMETHYLBENZENE	VOC	Cooling Pond	94575244SD	SD-D	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
1,2,4-TRIMETHYLBENZENE	VOC	Cooling Pond	94575245SD	SD-E	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
1,2,4-TRIMETHYLBENZENE	VOC	Cooling Pond	94575246SD	SD-F	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
1,2,4-TRIMETHYLBENZENE	VOC	Cooling Pond	94575247SD	SD-G	0-6"	8260	12/08/1994	Sediment	0.04	U		0.04
1,2,4-TRIMETHYLBENZENE	VOC	Cooling Pond	94575248SD	SD-H	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
1,2,4-TRIMETHYLBENZENE	VOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.04
1,2,4-TRIMETHYLBENZENE	VOC	119 ft from DP	96575205SD	96-SD5	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.04
1,2,4-TRIMETHYLBENZENE	VOC	147 ft from DP	96575206SD	96-SD6	----	8260	09/25/1996	Sediment	0.0007	U	0.0007	0.02
1,2,4-TRIMETHYLBENZENE	VOC	165 ft from DP	96575208SD	96-SD8	----	8260	09/25/1996	Sediment	0.0007	U	0.0007	0.02
1,2,4-TRIMETHYLBENZENE	VOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8260	09/25/1996	Sediment	0.0007	U	0.0007	0.02
1,2,4-TRIMETHYLBENZENE	VOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8260	09/25/1996	Sediment	0.003	U	0.003	0.06
1,2,4-TRIMETHYLBENZENE	VOC	40 ft from DP	96575202SD	96-SD2	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.04
1,2,4-TRIMETHYLBENZENE	VOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.04
1,2,4-TRIMETHYLBENZENE	VOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8260	09/25/1996	Sediment	0.0007	U	0.0007	0.02
1,2,4-TRIMETHYLBENZENE	VOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8260	09/26/1996	Sediment	0.002	U	0.002	0.04
1,2,4-TRIMETHYLBENZENE	VOC	Drum Accumulation Area	94575210SL	SS 8	2'	8260	10/06/1994	Soil	0.02	U		0.02
1,2,4-TRIMETHYLBENZENE	VOC	Drum Accumulation Area	94575211SL	SS 7	2'	8260	10/10/1994	Soil	0.02	U		0.02
1,2,4-TRIMETHYLBENZENE	VOC	Drum Accumulation Area	94575212SL	SS 6	2'	8260	10/10/1994	Soil	0.02	U		0.02
1,2,4-TRIMETHYLBENZENE	VOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8260	10/10/1994	Soil	0.02	U		0.02
1,2,4-TRIMETHYLBENZENE	VOC	Drum Accumulation Area	94575215SL	SS 4	2'	8260	10/10/1994	Soil	0.02	U		0.02
1,2,4-TRIMETHYLBENZENE	VOC	Drum Accumulation Area	94575216SL	SS 3	2'	8260	10/10/1994	Soil	0.02	U		0.02
1,2,4-TRIMETHYLBENZENE	VOC	Drum Accumulation Area	94575217SL	SS 2	2'	8260	10/10/1994	Soil	0.023	=		0.02
1,2,4-TRIMETHYLBENZENE	VOC	Drum Accumulation Area	94575218SL	SS 1	2'	8260	10/10/1994	Soil	0.02	U		0.02
1,2,4-TRIMETHYLBENZENE	VOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8260	11/03/1994	Soil	0.02	U		0.02
1,2,4-TRIMETHYLBENZENE	VOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8260	11/03/1994	Soil	0.02	U		0.02
1,2,4-TRIMETHYLBENZENE	VOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8260	11/07/1994	Soil	0.02	U		0.02
1,2,4-TRIMETHYLBENZENE	VOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8260	11/09/1994	Soil	0.02	U		0.02
1,2,4-TRIMETHYLBENZENE	VOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8260	11/11/1994	Soil	0.02	U		0.02
1,2,4-TRIMETHYLBENZENE	VOC	965752BH01	96575225SL	AP-3785	5	8260	10/02/1996	Soil	0.0007	U	0.0007	0.0007
1,2,4-TRIMETHYLBENZENE	VOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8260	10/03/1996	Soil	0.0007	U	0.0007	0.0007
1,2,4-TRIMETHYLBENZENE	VOC	965752BH04	96575238SL	AP-3788	2.5	8260	10/03/1996	Soil	0.0007	U	0.0007	0.0007
1,2,4-TRIMETHYLBENZENE	VOC	965752BH04	96575239SL-AVG	AP-3788	5	8260	10/03/1996	Soil	0.0007	U	0.0007	0.0007
1,2,4-TRIMETHYLBENZENE	VOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8260	10/06/1994	Soil	0.02	U		0.02
1,2,4-TRIMETHYLBENZENE	VOC	Drum Accumulation Area	94575203SL	SS 2	6"	8260	10/06/1994	Soil	0.02	U		0.02
1,2,4-TRIMETHYLBENZENE	VOC	Drum Accumulation Area	94575204SL	SS 3	6"	8260	10/06/1994	Soil	0.02	U		0.02
1,2,4-TRIMETHYLBENZENE	VOC	Drum Accumulation Area	94575205SL	SS 4	6"	8260	10/06/1994	Soil	0.02	U		0.02
1,2,4-TRIMETHYLBENZENE	VOC	Drum Accumulation Area	94575206SL	SS 5	6"	8260	10/06/1994	Soil	0.02	U		0.02
1,2,4-TRIMETHYLBENZENE	VOC	Drum Accumulation Area	94575207SL	SS 6	6"	8260	10/06/1994	Soil	0.02	U		0.02
1,2,4-TRIMETHYLBENZENE	VOC	Drum Accumulation Area	94575208SL	SS 7	6"	8260	10/06/1994	Soil	0.02	U		0.02
1,2,4-TRIMETHYLBENZENE	VOC	Drum Accumulation Area	94575209SL	SS 8	6"	8260	10/06/1994	Soil	0.02	U		0.02
1,2,4-TRIMETHYLBENZENE	VOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8260	11/03/1994	Soil	0.02	U		0.02
1,2,4-TRIMETHYLBENZENE	VOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8260	11/03/1994	Soil	0.02	U		0.02

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
1,2,4-TRIMETHYLBENZENE	VOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8260	11/07/1994	Soil	0.0335	=		0.02
1,2,4-TRIMETHYLBENZENE	VOC	Cooling Pond	94575231SL	AP-3503	0-6'	8260	11/08/1994	Soil	0.02	U		0.02
1,2,4-TRIMETHYLBENZENE	VOC	Cooling Pond	94575235SL	AP-3504	0-2'	8260	11/09/1994	Soil	0.02	U		0.02
1,2,4-TRIMETHYLBENZENE	VOC	965752BH03	96575230SL	AP-3787	0	8260	10/03/1996	Soil	0.0008	J	0.0007	0.02
1,2,4-TRIMETHYLBENZENE	VOC	965752BH04	96575236SL-AVG	AP-3788	0	8260	10/03/1996	Soil	0.0007	U	0.0007	0.02
1,2-DIBROMO-3-CHLOROPROPANE	VOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
1,2-DIBROMO-3-CHLOROPROPANE	VOC	Cooling Pond	94575242SD	SD-B	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
1,2-DIBROMO-3-CHLOROPROPANE	VOC	Cooling Pond	94575243SD	SD-C	0-6"	8260	12/08/1994	Sediment	0.04	U		0.04
1,2-DIBROMO-3-CHLOROPROPANE	VOC	Cooling Pond	94575244SD	SD-D	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
1,2-DIBROMO-3-CHLOROPROPANE	VOC	Cooling Pond	94575245SD	SD-E	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
1,2-DIBROMO-3-CHLOROPROPANE	VOC	Cooling Pond	94575246SD	SD-F	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
1,2-DIBROMO-3-CHLOROPROPANE	VOC	Cooling Pond	94575247SD	SD-G	0-6"	8260	12/08/1994	Sediment	0.04	U		0.04
1,2-DIBROMO-3-CHLOROPROPANE	VOC	Cooling Pond	94575248SD	SD-H	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
1,2-DIBROMO-3-CHLOROPROPANE	VOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.04
1,2-DIBROMO-3-CHLOROPROPANE	VOC	119 ft from DP	96575205SD	96-SD5	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.04
1,2-DIBROMO-3-CHLOROPROPANE	VOC	147 ft from DP	96575206SD	96-SD6	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.02
1,2-DIBROMO-3-CHLOROPROPANE	VOC	165 ft from DP	96575208SD	96-SD8	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.02
1,2-DIBROMO-3-CHLOROPROPANE	VOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.02
1,2-DIBROMO-3-CHLOROPROPANE	VOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8260	09/25/1996	Sediment	0.006	U	0.006	0.06
1,2-DIBROMO-3-CHLOROPROPANE	VOC	40 ft from DP	96575202SD	96-SD2	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.04
1,2-DIBROMO-3-CHLOROPROPANE	VOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.04
1,2-DIBROMO-3-CHLOROPROPANE	VOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.02
1,2-DIBROMO-3-CHLOROPROPANE	VOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8260	09/26/1996	Sediment	0.004	U	0.004	0.04
1,2-DIBROMO-3-CHLOROPROPANE	VOC	Drum Accumulation Area	94575210SL	SS 8	2'	8260	10/06/1994	Soil	0.02	U		0.02
1,2-DIBROMO-3-CHLOROPROPANE	VOC	Drum Accumulation Area	94575211SL	SS 7	2'	8260	10/10/1994	Soil	0.02	U		0.02
1,2-DIBROMO-3-CHLOROPROPANE	VOC	Drum Accumulation Area	94575212SL	SS 6	2'	8260	10/10/1994	Soil	0.02	U		0.02
1,2-DIBROMO-3-CHLOROPROPANE	VOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8260	10/10/1994	Soil	0.02	U		0.02
1,2-DIBROMO-3-CHLOROPROPANE	VOC	Drum Accumulation Area	94575215SL	SS 4	2'	8260	10/10/1994	Soil	0.02	U		0.02
1,2-DIBROMO-3-CHLOROPROPANE	VOC	Drum Accumulation Area	94575216SL	SS 3	2'	8260	10/10/1994	Soil	0.02	U		0.02
1,2-DIBROMO-3-CHLOROPROPANE	VOC	Drum Accumulation Area	94575217SL	SS 2	2'	8260	10/10/1994	Soil	0.02	U		0.02
1,2-DIBROMO-3-CHLOROPROPANE	VOC	Drum Accumulation Area	94575218SL	SS 1	2'	8260	10/10/1994	Soil	0.02	U		0.02
1,2-DIBROMO-3-CHLOROPROPANE	VOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8260	11/03/1994	Soil	0.02	U		0.02
1,2-DIBROMO-3-CHLOROPROPANE	VOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8260	11/03/1994	Soil	0.02	U		0.02
1,2-DIBROMO-3-CHLOROPROPANE	VOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8260	11/07/1994	Soil	0.02	U		0.02
1,2-DIBROMO-3-CHLOROPROPANE	VOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8260	11/09/1994	Soil	0.02	U		0.02
1,2-DIBROMO-3-CHLOROPROPANE	VOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8260	11/11/1994	Soil	0.02	U		0.02
1,2-DIBROMO-3-CHLOROPROPANE	VOC	965752BH01	96575225SL	AP-3785	5	8260	10/02/1996	Soil	0.002	U	0.002	0.002
1,2-DIBROMO-3-CHLOROPROPANE	VOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
1,2-DIBROMO-3-CHLOROPROPANE	VOC	965752BH04	96575238SL	AP-3788	2.5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
1,2-DIBROMO-3-CHLOROPROPANE	VOC	965752BH04	96575239SL-AVG	AP-3788	5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
1,2-DIBROMO-3-CHLOROPROPANE	VOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8260	10/06/1994	Soil	0.02	U		0.02
1,2-DIBROMO-3-CHLOROPROPANE	VOC	Drum Accumulation Area	94575203SL	SS 2	6"	8260	10/06/1994	Soil	0.02	U		0.02
1,2-DIBROMO-3-CHLOROPROPANE	VOC	Drum Accumulation Area	94575204SL	SS 3	6"	8260	10/06/1994	Soil	0.02	U		0.02
1,2-DIBROMO-3-CHLOROPROPANE	VOC	Drum Accumulation Area	94575205SL	SS 4	6"	8260	10/06/1994	Soil	0.02	U		0.02
1,2-DIBROMO-3-CHLOROPROPANE	VOC	Drum Accumulation Area	94575206SL	SS 5	6"	8260	10/06/1994	Soil	0.02	U		0.02
1,2-DIBROMO-3-CHLOROPROPANE	VOC	Drum Accumulation Area	94575207SL	SS 6	6"	8260	10/06/1994	Soil	0.02	U		0.02
1,2-DIBROMO-3-CHLOROPROPANE	VOC	Drum Accumulation Area	94575208SL	SS 7	6"	8260	10/06/1994	Soil	0.02	U		0.02
1,2-DIBROMO-3-CHLOROPROPANE	VOC	Drum Accumulation Area	94575209SL	SS 8	6"	8260	10/06/1994	Soil	0.02	U		0.02
1,2-DIBROMO-3-CHLOROPROPANE	VOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8260	11/03/1994	Soil	0.02	U		0.02
1,2-DIBROMO-3-CHLOROPROPANE	VOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8260	11/03/1994	Soil	0.02	U		0.02
1,2-DIBROMO-3-CHLOROPROPANE	VOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8260	11/07/1994	Soil	0.02	U		0.02
1,2-DIBROMO-3-CHLOROPROPANE	VOC	Cooling Pond	94575231SL	AP-3503	0-6'	8260	11/08/1994	Soil	0.02	U		0.02
1,2-DIBROMO-3-CHLOROPROPANE	VOC	Cooling Pond	94575235SL	AP-3504	0-2'	8260	11/09/1994	Soil	0.02	U		0.02
1,2-DIBROMO-3-CHLOROPROPANE	VOC	965752BH03	96575230SL	AP-3787	0	8260	10/03/1996	Soil	0.002	U	0.002	0.02
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	VOC	965752BH04	96575236SL-AVG	AP-3788	0	8260	10/03/1996	Soil	0.002	U	0.002	0.02
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	VOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	VOC	Cooling Pond	94575242SD	SD-B	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	VOC	Cooling Pond	94575243SD	SD-C	0-6"	8260	12/08/1994	Sediment	0.04	U		0.04
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	VOC	Cooling Pond	94575244SD	SD-D	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	VOC	Cooling Pond	94575245SD	SD-E	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	VOC	Cooling Pond	94575246SD	SD-F	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	VOC	Cooling Pond	94575247SD	SD-G	0-6"	8260	12/08/1994	Sediment	0.04	U		0.04

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	VOC	Cooling Pond	94575248SD	SD-H	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	VOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.04
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	VOC	119 ft from DP	96575205SD	96-SD5	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.04
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	VOC	147 ft from DP	96575206SD	96-SD6	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.02
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	VOC	165 ft from DP	96575208SD	96-SD8	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.02
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	VOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.02
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	VOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8260	09/25/1996	Sediment	0.006	U	0.006	0.06
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	VOC	40 ft from DP	96575202SD	96-SD2	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.04
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	VOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.04
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	VOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.02
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	VOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8260	09/26/1996	Sediment	0.004	U	0.004	0.04
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	VOC	Drum Accumulation Area	94575210SL	SS 8	2'	8260	10/06/1994	Soil	0.02	U		0.02
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	VOC	Drum Accumulation Area	94575211SL	SS 7	2'	8260	10/10/1994	Soil	0.02	U		0.02
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	VOC	Drum Accumulation Area	94575212SL	SS 6	2'	8260	10/10/1994	Soil	0.02	U		0.02
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	VOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8260	10/10/1994	Soil	0.02	U		0.02
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	VOC	Drum Accumulation Area	94575215SL	SS 4	2'	8260	10/10/1994	Soil	0.02	U		0.02
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	VOC	Drum Accumulation Area	94575216SL	SS 3	2'	8260	10/10/1994	Soil	0.02	U		0.02
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	VOC	Drum Accumulation Area	94575217SL	SS 2	2'	8260	10/10/1994	Soil	0.02	U		0.02
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	VOC	Drum Accumulation Area	94575218SL	SS 1	2'	8260	10/10/1994	Soil	0.02	U		0.02
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	VOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8260	11/03/1994	Soil	0.02	U		0.02
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	VOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8260	11/03/1994	Soil	0.02	U		0.02
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	VOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8260	11/07/1994	Soil	0.02	U		0.02
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	VOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8260	11/09/1994	Soil	0.02	U		0.02
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	VOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8260	11/11/1994	Soil	0.02	U		0.02
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	VOC	965752BH01	96575225SL	AP-3785	5	8260	10/02/1996	Soil	0.002	U	0.002	0.002
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	VOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	VOC	965752BH04	96575238SL	AP-3788	2.5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	VOC	965752BH04	96575239SL-AVG	AP-3788	5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	VOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8260	10/06/1994	Soil	0.02	U		0.02
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	VOC	Drum Accumulation Area	94575203SL	SS 2	6"	8260	10/06/1994	Soil	0.02	U		0.02
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	VOC	Drum Accumulation Area	94575204SL	SS 3	6"	8260	10/06/1994	Soil	0.02	U		0.02
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	VOC	Drum Accumulation Area	94575205SL	SS 4	6"	8260	10/06/1994	Soil	0.02	U		0.02
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	VOC	Drum Accumulation Area	94575206SL	SS 5	6"	8260	10/06/1994	Soil	0.02	U		0.02
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	VOC	Drum Accumulation Area	94575207SL	SS 6	6"	8260	10/06/1994	Soil	0.02	U		0.02
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	VOC	Drum Accumulation Area	94575208SL	SS 7	6"	8260	10/06/1994	Soil	0.02	U		0.02
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	VOC	Drum Accumulation Area	94575209SL	SS 8	6"	8260	10/06/1994	Soil	0.02	U		0.02
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	VOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8260	11/03/1994	Soil	0.02	U		0.02
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	VOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8260	11/03/1994	Soil	0.02	U		0.02
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	VOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8260	11/07/1994	Soil	0.02	U		0.02
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	VOC	Cooling Pond	94575231SL	AP-3503	0-6'	8260	11/08/1994	Soil	0.02	U		0.02
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	VOC	Cooling Pond	94575235SL	AP-3504	0-2'	8260	11/09/1994	Soil	0.02	U		0.02
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	VOC	965752BH03	96575230SL	AP-3787	0	8260	10/03/1996	Soil	0.002	U	0.002	0.02
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	VOC	965752BH04	96575236SL-AVG	AP-3788	0	8260	10/03/1996	Soil	0.002	U	0.002	0.02
1,2-DICHLOROBENZENE	VOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,2-DICHLOROBENZENE	VOC	Cooling Pond	94575242SD	SD-B	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,2-DICHLOROBENZENE	VOC	Cooling Pond	94575243SD	SD-C	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
1,2-DICHLOROBENZENE	VOC	Cooling Pond	94575244SD	SD-D	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,2-DICHLOROBENZENE	VOC	Cooling Pond	94575245SD	SD-E	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,2-DICHLOROBENZENE	VOC	Cooling Pond	94575246SD	SD-F	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,2-DICHLOROBENZENE	VOC	Cooling Pond	94575247SD	SD-G	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
1,2-DICHLOROBENZENE	VOC	Cooling Pond	94575248SD	SD-H	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,2-DICHLOROBENZENE	VOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.01
1,2-DICHLOROBENZENE	VOC	119 ft from DP	96575205SD	96-SD5	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.01
1,2-DICHLOROBENZENE	VOC	147 ft from DP	96575206SD	96-SD6	----	8260	09/25/1996	Sediment	0.0008	U	0.0008	0.005
1,2-DICHLOROBENZENE	VOC	165 ft from DP	96575208SD	96-SD8	----	8260	09/25/1996	Sediment	0.0008	U	0.0008	0.005
1,2-DICHLOROBENZENE	VOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8260	09/25/1996	Sediment	0.0008	U	0.0008	0.005
1,2-DICHLOROBENZENE	VOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8260	09/25/1996	Sediment	0.003	U	0.003	0.015
1,2-DICHLOROBENZENE	VOC	40 ft from DP	96575202SD	96-SD2	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.01
1,2-DICHLOROBENZENE	VOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.01
1,2-DICHLOROBENZENE	VOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8260	09/25/1996	Sediment	0.0008	U	0.0008	0.005
1,2-DICHLOROBENZENE	VOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8260	09/26/1996	Sediment	0.002	U	0.002	0.01
1,2-DICHLOROBENZENE	VOC	Drum Accumulation Area	94575210SL	SS 8	2'	8260	10/06/1994	Soil	0.005	U		0.005

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
1,2-DICHLOROBENZENE	VOC	Drum Accumulation Area	94575211SL	SS 7	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,2-DICHLOROBENZENE	VOC	Drum Accumulation Area	94575212SL	SS 6	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,2-DICHLOROBENZENE	VOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,2-DICHLOROBENZENE	VOC	Drum Accumulation Area	94575215SL	SS 4	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,2-DICHLOROBENZENE	VOC	Drum Accumulation Area	94575216SL	SS 3	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,2-DICHLOROBENZENE	VOC	Drum Accumulation Area	94575217SL	SS 2	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,2-DICHLOROBENZENE	VOC	Drum Accumulation Area	94575218SL	SS 1	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,2-DICHLOROBENZENE	VOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8260	11/03/1994	Soil	0.005	U		0.005
1,2-DICHLOROBENZENE	VOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8260	11/03/1994	Soil	0.005	U		0.005
1,2-DICHLOROBENZENE	VOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8260	11/07/1994	Soil	0.005	U		0.005
1,2-DICHLOROBENZENE	VOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8260	11/09/1994	Soil	0.005	U		0.005
1,2-DICHLOROBENZENE	VOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8260	11/11/1994	Soil	0.005	U		0.005
1,2-DICHLOROBENZENE	VOC	965752BH01	96575225SL	AP-3785	5	8260	10/02/1996	Soil	0.0008	U	0.0008	0.0008
1,2-DICHLOROBENZENE	VOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8260	10/03/1996	Soil	0.0008	U	0.0008	0.0008
1,2-DICHLOROBENZENE	VOC	965752BH04	96575238SL	AP-3788	2.5	8260	10/03/1996	Soil	0.0008	U	0.0008	0.0008
1,2-DICHLOROBENZENE	VOC	965752BH04	96575239SL-AVG	AP-3788	5	8260	10/03/1996	Soil	0.0008	U	0.0008	0.0008
1,2-DICHLOROBENZENE	VOC	965752BH03	96575233SL	AP-3787	5	8270	10/03/1996	Soil	0.05	U	0.05	0.05
1,2-DICHLOROBENZENE	VOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,2-DICHLOROBENZENE	VOC	Drum Accumulation Area	94575203SL	SS 2	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,2-DICHLOROBENZENE	VOC	Drum Accumulation Area	94575204SL	SS 3	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,2-DICHLOROBENZENE	VOC	Drum Accumulation Area	94575205SL	SS 4	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,2-DICHLOROBENZENE	VOC	Drum Accumulation Area	94575206SL	SS 5	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,2-DICHLOROBENZENE	VOC	Drum Accumulation Area	94575207SL	SS 6	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,2-DICHLOROBENZENE	VOC	Drum Accumulation Area	94575208SL	SS 7	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,2-DICHLOROBENZENE	VOC	Drum Accumulation Area	94575209SL	SS 8	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,2-DICHLOROBENZENE	VOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8260	11/03/1994	Soil	0.005	U		0.005
1,2-DICHLOROBENZENE	VOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8260	11/03/1994	Soil	0.005	U		0.005
1,2-DICHLOROBENZENE	VOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8260	11/07/1994	Soil	0.005	U		0.005
1,2-DICHLOROBENZENE	VOC	Cooling Pond	94575231SL	AP-3503	0-6'	8260	11/08/1994	Soil	0.005	U		0.005
1,2-DICHLOROBENZENE	VOC	Cooling Pond	94575235SL	AP-3504	0-2'	8260	11/09/1994	Soil	0.005	U		0.005
1,2-DICHLOROBENZENE	VOC	965752BH03	96575230SL	AP-3787	0	8260	10/03/1996	Soil	0.0008	U	0.0008	0.005
1,2-DICHLOROBENZENE	VOC	965752BH04	96575236SL-AVG	AP-3788	0	8260	10/03/1996	Soil	0.0008	U	0.0008	0.005
1,2-DICHLOROBENZENE	VOC	Tank 1109; BH-12	90FRUST86 soil	AP-2982	5-6.5'	8020	08/21/1990	Soil	0.025	U		0.025
1,2-DICHLOROBENZENE	VOC	Tank 1109; BH-13	90FRUST90 soil	AP-2983	5-5.5'	8020	08/21/1990	Soil	0.022	U		0.022
1,2-DICHLOROETHANE	VOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,2-DICHLOROETHANE	VOC	Cooling Pond	94575242SD	SD-B	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,2-DICHLOROETHANE	VOC	Cooling Pond	94575243SD	SD-C	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
1,2-DICHLOROETHANE	VOC	Cooling Pond	94575244SD	SD-D	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,2-DICHLOROETHANE	VOC	Cooling Pond	94575245SD	SD-E	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,2-DICHLOROETHANE	VOC	Cooling Pond	94575246SD	SD-F	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,2-DICHLOROETHANE	VOC	Cooling Pond	94575247SD	SD-G	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
1,2-DICHLOROETHANE	VOC	Cooling Pond	94575248SD	SD-H	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,2-DICHLOROETHANE	VOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
1,2-DICHLOROETHANE	VOC	119 ft from DP	96575205SD	96-SD5	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
1,2-DICHLOROETHANE	VOC	147 ft from DP	96575206SD	96-SD6	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
1,2-DICHLOROETHANE	VOC	165 ft from DP	96575208SD	96-SD8	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
1,2-DICHLOROETHANE	VOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
1,2-DICHLOROETHANE	VOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8260	09/25/1996	Sediment	0.006	U	0.006	0.015
1,2-DICHLOROETHANE	VOC	40 ft from DP	96575202SD	96-SD2	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
1,2-DICHLOROETHANE	VOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
1,2-DICHLOROETHANE	VOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
1,2-DICHLOROETHANE	VOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8260	09/26/1996	Sediment	0.004	U	0.004	0.01
1,2-DICHLOROETHANE	VOC	Drum Accumulation Area	94575210SL	SS 8	2'	8260	10/06/1994	Soil	0.005	U		0.005
1,2-DICHLOROETHANE	VOC	Drum Accumulation Area	94575211SL	SS 7	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,2-DICHLOROETHANE	VOC	Drum Accumulation Area	94575212SL	SS 6	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,2-DICHLOROETHANE	VOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,2-DICHLOROETHANE	VOC	Drum Accumulation Area	94575215SL	SS 4	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,2-DICHLOROETHANE	VOC	Drum Accumulation Area	94575216SL	SS 3	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,2-DICHLOROETHANE	VOC	Drum Accumulation Area	94575217SL	SS 2	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,2-DICHLOROETHANE	VOC	Drum Accumulation Area	94575218SL	SS 1	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,2-DICHLOROETHANE	VOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8260	11/03/1994	Soil	0.005	U		0.005
1,2-DICHLOROETHANE	VOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8260	11/03/1994	Soil	0.005	U		0.005

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
1,2-DICHLOROETHANE	VOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8260	11/07/1994	Soil	0.005	U		0.005
1,2-DICHLOROETHANE	VOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8260	11/09/1994	Soil	0.005	U		0.005
1,2-DICHLOROETHANE	VOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8260	11/11/1994	Soil	0.005	U		0.005
1,2-DICHLOROETHANE	VOC	965752BH01	96575225SL	AP-3785	5	8260	10/02/1996	Soil	0.002	U	0.002	0.002
1,2-DICHLOROETHANE	VOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
1,2-DICHLOROETHANE	VOC	965752BH04	96575238SL	AP-3788	2.5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
1,2-DICHLOROETHANE	VOC	965752BH04	96575239SL-AVG	AP-3788	5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
1,2-DICHLOROETHANE	VOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,2-DICHLOROETHANE	VOC	Drum Accumulation Area	94575203SL	SS 2	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,2-DICHLOROETHANE	VOC	Drum Accumulation Area	94575204SL	SS 3	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,2-DICHLOROETHANE	VOC	Drum Accumulation Area	94575205SL	SS 4	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,2-DICHLOROETHANE	VOC	Drum Accumulation Area	94575206SL	SS 5	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,2-DICHLOROETHANE	VOC	Drum Accumulation Area	94575207SL	SS 6	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,2-DICHLOROETHANE	VOC	Drum Accumulation Area	94575208SL	SS 7	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,2-DICHLOROETHANE	VOC	Drum Accumulation Area	94575209SL	SS 8	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,2-DICHLOROETHANE	VOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8260	11/03/1994	Soil	0.005	U		0.005
1,2-DICHLOROETHANE	VOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8260	11/03/1994	Soil	0.005	U		0.005
1,2-DICHLOROETHANE	VOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8260	11/07/1994	Soil	0.005	U		0.005
1,2-DICHLOROETHANE	VOC	Cooling Pond	94575231SL	AP-3503	0-6'	8260	11/08/1994	Soil	0.005	U		0.005
1,2-DICHLOROETHANE	VOC	Cooling Pond	94575235SL	AP-3504	0-2'	8260	11/09/1994	Soil	0.005	U		0.005
1,2-DICHLOROETHANE	VOC	965752BH03	96575230SL	AP-3787	0	8260	10/03/1996	Soil	0.002	U	0.002	0.005
1,2-DICHLOROETHANE	VOC	965752BH04	96575236SL-AVG	AP-3788	0	8260	10/03/1996	Soil	0.002	U	0.002	0.005
1,2-DICHLOROPROPANE	VOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,2-DICHLOROPROPANE	VOC	Cooling Pond	94575242SD	SD-B	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,2-DICHLOROPROPANE	VOC	Cooling Pond	94575243SD	SD-C	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
1,2-DICHLOROPROPANE	VOC	Cooling Pond	94575244SD	SD-D	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,2-DICHLOROPROPANE	VOC	Cooling Pond	94575245SD	SD-E	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,2-DICHLOROPROPANE	VOC	Cooling Pond	94575246SD	SD-F	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,2-DICHLOROPROPANE	VOC	Cooling Pond	94575247SD	SD-G	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
1,2-DICHLOROPROPANE	VOC	Cooling Pond	94575248SD	SD-H	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,2-DICHLOROPROPANE	VOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
1,2-DICHLOROPROPANE	VOC	119 ft from DP	96575205SD	96-SD5	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
1,2-DICHLOROPROPANE	VOC	147 ft from DP	96575206SD	96-SD6	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
1,2-DICHLOROPROPANE	VOC	165 ft from DP	96575208SD	96-SD8	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
1,2-DICHLOROPROPANE	VOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
1,2-DICHLOROPROPANE	VOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8260	09/25/1996	Sediment	0.006	U	0.006	0.015
1,2-DICHLOROPROPANE	VOC	40 ft from DP	96575202SD	96-SD2	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
1,2-DICHLOROPROPANE	VOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
1,2-DICHLOROPROPANE	VOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
1,2-DICHLOROPROPANE	VOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8260	09/26/1996	Sediment	0.004	U	0.004	0.01
1,2-DICHLOROPROPANE	VOC	Drum Accumulation Area	94575210SL	SS 8	2'	8260	10/06/1994	Soil	0.005	U		0.005
1,2-DICHLOROPROPANE	VOC	Drum Accumulation Area	94575211SL	SS 7	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,2-DICHLOROPROPANE	VOC	Drum Accumulation Area	94575212SL	SS 6	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,2-DICHLOROPROPANE	VOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,2-DICHLOROPROPANE	VOC	Drum Accumulation Area	94575215SL	SS 4	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,2-DICHLOROPROPANE	VOC	Drum Accumulation Area	94575216SL	SS 3	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,2-DICHLOROPROPANE	VOC	Drum Accumulation Area	94575217SL	SS 2	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,2-DICHLOROPROPANE	VOC	Drum Accumulation Area	94575218SL	SS 1	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,2-DICHLOROPROPANE	VOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8260	11/03/1994	Soil	0.005	U		0.005
1,2-DICHLOROPROPANE	VOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8260	11/03/1994	Soil	0.005	U		0.005
1,2-DICHLOROPROPANE	VOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8260	11/07/1994	Soil	0.005	U		0.005
1,2-DICHLOROPROPANE	VOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8260	11/09/1994	Soil	0.005	U		0.005
1,2-DICHLOROPROPANE	VOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8260	11/11/1994	Soil	0.005	U		0.005
1,2-DICHLOROPROPANE	VOC	965752BH01	96575225SL	AP-3785	5	8260	10/02/1996	Soil	0.002	U	0.002	0.002
1,2-DICHLOROPROPANE	VOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
1,2-DICHLOROPROPANE	VOC	965752BH04	96575238SL	AP-3788	2.5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
1,2-DICHLOROPROPANE	VOC	965752BH04	96575239SL-AVG	AP-3788	5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
1,2-DICHLOROPROPANE	VOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,2-DICHLOROPROPANE	VOC	Drum Accumulation Area	94575203SL	SS 2	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,2-DICHLOROPROPANE	VOC	Drum Accumulation Area	94575204SL	SS 3	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,2-DICHLOROPROPANE	VOC	Drum Accumulation Area	94575205SL	SS 4	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,2-DICHLOROPROPANE	VOC	Drum Accumulation Area	94575206SL	SS 5	6"	8260	10/06/1994	Soil	0.005	U		0.005

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
1,2-DICHLOROPROPANE	VOC	Drum Accumulation Area	94575207SL	SS 6	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,2-DICHLOROPROPANE	VOC	Drum Accumulation Area	94575208SL	SS 7	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,2-DICHLOROPROPANE	VOC	Drum Accumulation Area	94575209SL	SS 8	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,2-DICHLOROPROPANE	VOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8260	11/03/1994	Soil	0.005	U		0.005
1,2-DICHLOROPROPANE	VOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8260	11/03/1994	Soil	0.005	U		0.005
1,2-DICHLOROPROPANE	VOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8260	11/07/1994	Soil	0.005	U		0.005
1,2-DICHLOROPROPANE	VOC	Cooling Pond	94575231SL	AP-3503	0-6'	8260	11/08/1994	Soil	0.005	U		0.005
1,2-DICHLOROPROPANE	VOC	Cooling Pond	94575235SL	AP-3504	0-2'	8260	11/09/1994	Soil	0.005	U		0.005
1,2-DICHLOROPROPANE	VOC	965752BH03	96575230SL	AP-3787	0	8260	10/03/1996	Soil	0.002	U	0.002	0.005
1,2-DICHLOROPROPANE	VOC	965752BH04	96575236SL-AVG	AP-3788	0	8260	10/03/1996	Soil	0.002	U	0.002	0.005
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	VOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	VOC	Cooling Pond	94575242SD	SD-B	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	VOC	Cooling Pond	94575243SD	SD-C	0-6"	8260	12/08/1994	Sediment	0.04	U		0.04
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	VOC	Cooling Pond	94575244SD	SD-D	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	VOC	Cooling Pond	94575245SD	SD-E	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	VOC	Cooling Pond	94575246SD	SD-F	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	VOC	Cooling Pond	94575247SD	SD-G	0-6"	8260	12/08/1994	Sediment	0.04	U		0.04
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	VOC	Cooling Pond	94575248SD	SD-H	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	VOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.04
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	VOC	119 ft from DP	96575205SD	96-SD5	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.04
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	VOC	147 ft from DP	96575206SD	96-SD6	----	8260	09/25/1996	Sediment	0.0008	U	0.0008	0.02
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	VOC	165 ft from DP	96575208SD	96-SD8	----	8260	09/25/1996	Sediment	0.0008	U	0.0008	0.02
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	VOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8260	09/25/1996	Sediment	0.0008	U	0.0008	0.02
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	VOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8260	09/25/1996	Sediment	0.003	U	0.003	0.06
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	VOC	40 ft from DP	96575202SD	96-SD2	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.04
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	VOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.04
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	VOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8260	09/25/1996	Sediment	0.0008	U	0.0008	0.02
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	VOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8260	09/26/1996	Sediment	0.002	U	0.002	0.04
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	VOC	Drum Accumulation Area	94575210SL	SS 8	2'	8260	10/06/1994	Soil	0.02	U		0.02
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	VOC	Drum Accumulation Area	94575211SL	SS 7	2'	8260	10/10/1994	Soil	0.02	U		0.02
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	VOC	Drum Accumulation Area	94575212SL	SS 6	2'	8260	10/10/1994	Soil	0.02	U		0.02
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	VOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8260	10/10/1994	Soil	0.02	U		0.02
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	VOC	Drum Accumulation Area	94575215SL	SS 4	2'	8260	10/10/1994	Soil	0.02	U		0.02
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	VOC	Drum Accumulation Area	94575216SL	SS 3	2'	8260	10/10/1994	Soil	0.02	U		0.02
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	VOC	Drum Accumulation Area	94575217SL	SS 2	2'	8260	10/10/1994	Soil	0.02	U		0.02
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	VOC	Drum Accumulation Area	94575218SL	SS 1	2'	8260	10/10/1994	Soil	0.02	U		0.02
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	VOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8260	11/03/1994	Soil	0.02	U		0.02
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	VOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8260	11/03/1994	Soil	0.02	U		0.02
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	VOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8260	11/07/1994	Soil	0.02	U		0.02
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	VOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8260	11/09/1994	Soil	0.02	U		0.02
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	VOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8260	11/11/1994	Soil	0.02	U		0.02
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	VOC	965752BH01	96575225SL	AP-3785	5	8260	10/02/1996	Soil	0.0008	U	0.0008	0.0008
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	VOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8260	10/03/1996	Soil	0.001	J	0.0008	0.0008
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	VOC	965752BH04	96575238SL	AP-3788	2.5	8260	10/03/1996	Soil	0.0008	U	0.0008	0.0008
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	VOC	965752BH04	96575239SL-AVG	AP-3788	5	8260	10/03/1996	Soil	0.0008	U	0.0008	0.0008
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	VOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8260	10/06/1994	Soil	0.02	U		0.02
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	VOC	Drum Accumulation Area	94575203SL	SS 2	6"	8260	10/06/1994	Soil	0.02	U		0.02
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	VOC	Drum Accumulation Area	94575204SL	SS 3	6"	8260	10/06/1994	Soil	0.02	U		0.02
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	VOC	Drum Accumulation Area	94575205SL	SS 4	6"	8260	10/06/1994	Soil	0.02	U		0.02
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	VOC	Drum Accumulation Area	94575206SL	SS 5	6"	8260	10/06/1994	Soil	0.02	U		0.02
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	VOC	Drum Accumulation Area	94575207SL	SS 6	6"	8260	10/06/1994	Soil	0.02	U		0.02
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	VOC	Drum Accumulation Area	94575208SL	SS 7	6"	8260	10/06/1994	Soil	0.02	U		0.02
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	VOC	Drum Accumulation Area	94575209SL	SS 8	6"	8260	10/06/1994	Soil	0.02	U		0.02
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	VOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8260	11/03/1994	Soil	0.02	U		0.02
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	VOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8260	11/03/1994	Soil	0.02	U		0.02
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	VOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8260	11/07/1994	Soil	0.02	U		0.02
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	VOC	Cooling Pond	94575231SL	AP-3503	0-6'	8260	11/08/1994	Soil	0.02	U		0.02
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	VOC	Cooling Pond	94575235SL	AP-3504	0-2'	8260	11/09/1994	Soil	0.02	U		0.02
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	VOC	965752BH03	96575230SL	AP-3787	0	8260	10/03/1996	Soil	0.004	J	0.0008	0.02
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	VOC	965752BH04	96575236SL-AVG	AP-3788	0	8260	10/03/1996	Soil	0.0008	U	0.0008	0.02
1,3-DICHLOROBENZENE	VOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,3-DICHLOROBENZENE	VOC	Cooling Pond	94575242SD	SD-B	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
1,3-DICHLOROBENZENE	VOC	Cooling Pond	94575243SD	SD-C	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
1,3-DICHLOROBENZENE	VOC	Cooling Pond	94575244SD	SD-D	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,3-DICHLOROBENZENE	VOC	Cooling Pond	94575245SD	SD-E	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,3-DICHLOROBENZENE	VOC	Cooling Pond	94575246SD	SD-F	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,3-DICHLOROBENZENE	VOC	Cooling Pond	94575247SD	SD-G	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
1,3-DICHLOROBENZENE	VOC	Cooling Pond	94575248SD	SD-H	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,3-DICHLOROBENZENE	VOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.01
1,3-DICHLOROBENZENE	VOC	119 ft from DP	96575205SD	96-SD5	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.01
1,3-DICHLOROBENZENE	VOC	147 ft from DP	96575206SD	96-SD6	----	8260	09/25/1996	Sediment	0.0008	U	0.0008	0.005
1,3-DICHLOROBENZENE	VOC	165 ft from DP	96575208SD	96-SD8	----	8260	09/25/1996	Sediment	0.0008	U	0.0008	0.005
1,3-DICHLOROBENZENE	VOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8260	09/25/1996	Sediment	0.0008	U	0.0008	0.005
1,3-DICHLOROBENZENE	VOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8260	09/25/1996	Sediment	0.003	U	0.003	0.015
1,3-DICHLOROBENZENE	VOC	40 ft from DP	96575202SD	96-SD2	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.01
1,3-DICHLOROBENZENE	VOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.01
1,3-DICHLOROBENZENE	VOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8260	09/25/1996	Sediment	0.0008	U	0.0008	0.005
1,3-DICHLOROBENZENE	VOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8260	09/26/1996	Sediment	0.002	U	0.002	0.01
1,3-DICHLOROBENZENE	VOC	Drum Accumulation Area	94575210SL	SS 8	2'	8260	10/06/1994	Soil	0.005	U		0.005
1,3-DICHLOROBENZENE	VOC	Drum Accumulation Area	94575211SL	SS 7	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,3-DICHLOROBENZENE	VOC	Drum Accumulation Area	94575212SL	SS 6	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,3-DICHLOROBENZENE	VOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,3-DICHLOROBENZENE	VOC	Drum Accumulation Area	94575215SL	SS 4	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,3-DICHLOROBENZENE	VOC	Drum Accumulation Area	94575216SL	SS 3	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,3-DICHLOROBENZENE	VOC	Drum Accumulation Area	94575217SL	SS 2	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,3-DICHLOROBENZENE	VOC	Drum Accumulation Area	94575218SL	SS 1	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,3-DICHLOROBENZENE	VOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8260	11/03/1994	Soil	0.005	U		0.005
1,3-DICHLOROBENZENE	VOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8260	11/03/1994	Soil	0.005	U		0.005
1,3-DICHLOROBENZENE	VOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8260	11/07/1994	Soil	0.005	U		0.005
1,3-DICHLOROBENZENE	VOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8260	11/09/1994	Soil	0.005	U		0.005
1,3-DICHLOROBENZENE	VOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8260	11/11/1994	Soil	0.005	U		0.005
1,3-DICHLOROBENZENE	VOC	965752BH01	96575225SL	AP-3785	5	8260	10/02/1996	Soil	0.0008	U	0.0008	0.0008
1,3-DICHLOROBENZENE	VOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8260	10/03/1996	Soil	0.0008	U	0.0008	0.0008
1,3-DICHLOROBENZENE	VOC	965752BH04	96575238SL	AP-3788	2.5	8260	10/03/1996	Soil	0.0008	U	0.0008	0.0008
1,3-DICHLOROBENZENE	VOC	965752BH04	96575239SL-AVG	AP-3788	5	8260	10/03/1996	Soil	0.0008	U	0.0008	0.0008
1,3-DICHLOROBENZENE	VOC	965752BH03	96575233SL	AP-3787	5	8270	10/03/1996	Soil	0.05	U	0.05	0.05
1,3-DICHLOROBENZENE	VOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,3-DICHLOROBENZENE	VOC	Drum Accumulation Area	94575203SL	SS 2	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,3-DICHLOROBENZENE	VOC	Drum Accumulation Area	94575204SL	SS 3	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,3-DICHLOROBENZENE	VOC	Drum Accumulation Area	94575205SL	SS 4	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,3-DICHLOROBENZENE	VOC	Drum Accumulation Area	94575206SL	SS 5	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,3-DICHLOROBENZENE	VOC	Drum Accumulation Area	94575207SL	SS 6	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,3-DICHLOROBENZENE	VOC	Drum Accumulation Area	94575208SL	SS 7	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,3-DICHLOROBENZENE	VOC	Drum Accumulation Area	94575209SL	SS 8	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,3-DICHLOROBENZENE	VOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8260	11/03/1994	Soil	0.005	U		0.005
1,3-DICHLOROBENZENE	VOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8260	11/03/1994	Soil	0.005	U		0.005
1,3-DICHLOROBENZENE	VOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8260	11/07/1994	Soil	0.005	U		0.005
1,3-DICHLOROBENZENE	VOC	Cooling Pond	94575231SL	AP-3503	0-6'	8260	11/08/1994	Soil	0.005	U		0.005
1,3-DICHLOROBENZENE	VOC	Cooling Pond	94575235SL	AP-3504	0-2'	8260	11/09/1994	Soil	0.005	U		0.005
1,3-DICHLOROBENZENE	VOC	965752BH03	96575230SL	AP-3787	0	8260	10/03/1996	Soil	0.0008	U	0.0008	0.005
1,3-DICHLOROBENZENE	VOC	965752BH04	96575236SL-AVG	AP-3788	0	8260	10/03/1996	Soil	0.0008	U	0.0008	0.005
1,3-DICHLOROBENZENE	VOC	Tank 1109; BH-12	90FRUST86 soil	AP-2982	5-6.5'	8020	08/21/1990	Soil	0.025	U		0.025
1,3-DICHLOROBENZENE	VOC	Tank 1109; BH-13	90FRUST90 soil	AP-2983	5-5.5'	8020	08/21/1990	Soil	0.022	U		0.022
1,3-DICHLOROPROPANE	VOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,3-DICHLOROPROPANE	VOC	Cooling Pond	94575242SD	SD-B	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,3-DICHLOROPROPANE	VOC	Cooling Pond	94575243SD	SD-C	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
1,3-DICHLOROPROPANE	VOC	Cooling Pond	94575244SD	SD-D	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,3-DICHLOROPROPANE	VOC	Cooling Pond	94575245SD	SD-E	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,3-DICHLOROPROPANE	VOC	Cooling Pond	94575246SD	SD-F	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,3-DICHLOROPROPANE	VOC	Cooling Pond	94575247SD	SD-G	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
1,3-DICHLOROPROPANE	VOC	Cooling Pond	94575248SD	SD-H	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,3-DICHLOROPROPANE	VOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
1,3-DICHLOROPROPANE	VOC	119 ft from DP	96575205SD	96-SD5	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
1,3-DICHLOROPROPANE	VOC	147 ft from DP	96575206SD	96-SD6	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
1,3-DICHLOROPROPANE	VOC	165 ft from DP	96575208SD	96-SD8	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
1,3-DICHLOROPROPANE	VOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
1,3-DICHLOROPROPANE	VOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8260	09/25/1996	Sediment	0.006	U	0.006	0.015
1,3-DICHLOROPROPANE	VOC	40 ft from DP	96575202SD	96-SD2	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
1,3-DICHLOROPROPANE	VOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
1,3-DICHLOROPROPANE	VOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
1,3-DICHLOROPROPANE	VOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8260	09/26/1996	Sediment	0.004	U	0.004	0.01
1,3-DICHLOROPROPANE	VOC	Drum Accumulation Area	94575210SL	SS 8	2'	8260	10/06/1994	Soil	0.005	U		0.005
1,3-DICHLOROPROPANE	VOC	Drum Accumulation Area	94575211SL	SS 7	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,3-DICHLOROPROPANE	VOC	Drum Accumulation Area	94575212SL	SS 6	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,3-DICHLOROPROPANE	VOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,3-DICHLOROPROPANE	VOC	Drum Accumulation Area	94575215SL	SS 4	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,3-DICHLOROPROPANE	VOC	Drum Accumulation Area	94575216SL	SS 3	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,3-DICHLOROPROPANE	VOC	Drum Accumulation Area	94575217SL	SS 2	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,3-DICHLOROPROPANE	VOC	Drum Accumulation Area	94575218SL	SS 1	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,3-DICHLOROPROPANE	VOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8260	11/03/1994	Soil	0.005	U		0.005
1,3-DICHLOROPROPANE	VOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8260	11/03/1994	Soil	0.005	U		0.005
1,3-DICHLOROPROPANE	VOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8260	11/07/1994	Soil	0.005	U		0.005
1,3-DICHLOROPROPANE	VOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8260	11/09/1994	Soil	0.005	U		0.005
1,3-DICHLOROPROPANE	VOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8260	11/11/1994	Soil	0.005	U		0.005
1,3-DICHLOROPROPANE	VOC	965752BH01	96575225SL	AP-3785	5	8260	10/02/1996	Soil	0.002	U	0.002	0.002
1,3-DICHLOROPROPANE	VOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
1,3-DICHLOROPROPANE	VOC	965752BH04	96575238SL	AP-3788	2.5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
1,3-DICHLOROPROPANE	VOC	965752BH04	96575239SL-AVG	AP-3788	5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
1,3-DICHLOROPROPANE	VOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,3-DICHLOROPROPANE	VOC	Drum Accumulation Area	94575203SL	SS 2	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,3-DICHLOROPROPANE	VOC	Drum Accumulation Area	94575204SL	SS 3	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,3-DICHLOROPROPANE	VOC	Drum Accumulation Area	94575205SL	SS 4	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,3-DICHLOROPROPANE	VOC	Drum Accumulation Area	94575206SL	SS 5	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,3-DICHLOROPROPANE	VOC	Drum Accumulation Area	94575207SL	SS 6	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,3-DICHLOROPROPANE	VOC	Drum Accumulation Area	94575208SL	SS 7	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,3-DICHLOROPROPANE	VOC	Drum Accumulation Area	94575209SL	SS 8	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,3-DICHLOROPROPANE	VOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8260	11/03/1994	Soil	0.005	U		0.005
1,3-DICHLOROPROPANE	VOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8260	11/03/1994	Soil	0.005	U		0.005
1,3-DICHLOROPROPANE	VOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8260	11/07/1994	Soil	0.005	U		0.005
1,3-DICHLOROPROPANE	VOC	Cooling Pond	94575231SL	AP-3503	0-6'	8260	11/08/1994	Soil	0.005	U		0.005
1,3-DICHLOROPROPANE	VOC	Cooling Pond	94575235SL	AP-3504	0-2'	8260	11/09/1994	Soil	0.005	U		0.005
1,3-DICHLOROPROPANE	VOC	965752BH03	96575230SL	AP-3787	0	8260	10/03/1996	Soil	0.002	U	0.002	0.005
1,3-DICHLOROPROPANE	VOC	965752BH04	96575236SL-AVG	AP-3788	0	8260	10/03/1996	Soil	0.002	U	0.002	0.005
1,4-DICHLOROBENZENE	VOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,4-DICHLOROBENZENE	VOC	Cooling Pond	94575242SD	SD-B	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,4-DICHLOROBENZENE	VOC	Cooling Pond	94575243SD	SD-C	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
1,4-DICHLOROBENZENE	VOC	Cooling Pond	94575244SD	SD-D	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,4-DICHLOROBENZENE	VOC	Cooling Pond	94575245SD	SD-E	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,4-DICHLOROBENZENE	VOC	Cooling Pond	94575246SD	SD-F	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
1,4-DICHLOROBENZENE	VOC	Cooling Pond	94575247SD	SD-G	0-6"	8260	12/08/1994	Sediment	0.015	=		0.005
1,4-DICHLOROBENZENE	VOC	Cooling Pond	94575248SD	SD-H	0-6"	8260	12/08/1994	Sediment	0.006	=		0.005
1,4-DICHLOROBENZENE	VOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.01
1,4-DICHLOROBENZENE	VOC	119 ft from DP	96575205SD	96-SD5	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.01
1,4-DICHLOROBENZENE	VOC	147 ft from DP	96575206SD	96-SD6	----	8260	09/25/1996	Sediment	0.0006	U	0.0006	0.005
1,4-DICHLOROBENZENE	VOC	165 ft from DP	96575208SD	96-SD8	----	8260	09/25/1996	Sediment	0.0006	U	0.0006	0.005
1,4-DICHLOROBENZENE	VOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8260	09/25/1996	Sediment	0.0006	U	0.0006	0.005
1,4-DICHLOROBENZENE	VOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.015
1,4-DICHLOROBENZENE	VOC	40 ft from DP	96575202SD	96-SD2	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.01
1,4-DICHLOROBENZENE	VOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.01
1,4-DICHLOROBENZENE	VOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8260	09/25/1996	Sediment	0.0006	U	0.0006	0.005
1,4-DICHLOROBENZENE	VOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8260	09/26/1996	Sediment	0.002	U	0.002	0.01
1,4-DICHLOROBENZENE	VOC	Drum Accumulation Area	94575210SL	SS 8	2'	8260	10/06/1994	Soil	0.005	U		0.005
1,4-DICHLOROBENZENE	VOC	Drum Accumulation Area	94575211SL	SS 7	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,4-DICHLOROBENZENE	VOC	Drum Accumulation Area	94575212SL	SS 6	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,4-DICHLOROBENZENE	VOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,4-DICHLOROBENZENE	VOC	Drum Accumulation Area	94575215SL	SS 4	2'	8260	10/10/1994	Soil	0.005	U		0.005

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
1,4-DICHLOROBENZENE	VOC	Drum Accumulation Area	94575216SL	SS 3	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,4-DICHLOROBENZENE	VOC	Drum Accumulation Area	94575217SL	SS 2	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,4-DICHLOROBENZENE	VOC	Drum Accumulation Area	94575218SL	SS 1	2'	8260	10/10/1994	Soil	0.005	U		0.005
1,4-DICHLOROBENZENE	VOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8260	11/03/1994	Soil	0.005	U		0.005
1,4-DICHLOROBENZENE	VOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8260	11/03/1994	Soil	0.005	U		0.005
1,4-DICHLOROBENZENE	VOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8260	11/07/1994	Soil	0.005	U		0.005
1,4-DICHLOROBENZENE	VOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8260	11/09/1994	Soil	0.005	U		0.005
1,4-DICHLOROBENZENE	VOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8260	11/11/1994	Soil	0.007	=		0.005
1,4-DICHLOROBENZENE	VOC	965752BH01	96575225SL	AP-3785	5	8260	10/02/1996	Soil	0.0006	U	0.0006	0.0006
1,4-DICHLOROBENZENE	VOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8260	10/03/1996	Soil	0.0006	U	0.0006	0.0006
1,4-DICHLOROBENZENE	VOC	965752BH04	96575238SL	AP-3788	2.5	8260	10/03/1996	Soil	0.0006	U	0.0006	0.0006
1,4-DICHLOROBENZENE	VOC	965752BH04	96575239SL-AVG	AP-3788	5	8260	10/03/1996	Soil	0.0006	U	0.0006	0.0006
1,4-DICHLOROBENZENE	VOC	965752BH03	96575233SL	AP-3787	5	8270	10/03/1996	Soil	0.05	U	0.05	0.05
1,4-DICHLOROBENZENE	VOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,4-DICHLOROBENZENE	VOC	Drum Accumulation Area	94575203SL	SS 2	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,4-DICHLOROBENZENE	VOC	Drum Accumulation Area	94575204SL	SS 3	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,4-DICHLOROBENZENE	VOC	Drum Accumulation Area	94575205SL	SS 4	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,4-DICHLOROBENZENE	VOC	Drum Accumulation Area	94575206SL	SS 5	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,4-DICHLOROBENZENE	VOC	Drum Accumulation Area	94575207SL	SS 6	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,4-DICHLOROBENZENE	VOC	Drum Accumulation Area	94575208SL	SS 7	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,4-DICHLOROBENZENE	VOC	Drum Accumulation Area	94575209SL	SS 8	6"	8260	10/06/1994	Soil	0.005	U		0.005
1,4-DICHLOROBENZENE	VOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8260	11/03/1994	Soil	0.005	U		0.005
1,4-DICHLOROBENZENE	VOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8260	11/03/1994	Soil	0.005	U		0.005
1,4-DICHLOROBENZENE	VOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8260	11/07/1994	Soil	0.005	U		0.005
1,4-DICHLOROBENZENE	VOC	Cooling Pond	94575231SL	AP-3503	0-6'	8260	11/08/1994	Soil	0.005	U		0.005
1,4-DICHLOROBENZENE	VOC	Cooling Pond	94575235SL	AP-3504	0-2'	8260	11/09/1994	Soil	0.005	U		0.005
1,4-DICHLOROBENZENE	VOC	965752BH03	96575230SL	AP-3787	0	8260	10/03/1996	Soil	0.0006	U	0.0006	0.005
1,4-DICHLOROBENZENE	VOC	965752BH04	96575236SL-AVG	AP-3788	0	8260	10/03/1996	Soil	0.0006	U	0.0006	0.005
2,2-DICHLOROPROPANE	VOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
2,2-DICHLOROPROPANE	VOC	Cooling Pond	94575242SD	SD-B	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
2,2-DICHLOROPROPANE	VOC	Cooling Pond	94575243SD	SD-C	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
2,2-DICHLOROPROPANE	VOC	Cooling Pond	94575244SD	SD-D	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
2,2-DICHLOROPROPANE	VOC	Cooling Pond	94575245SD	SD-E	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
2,2-DICHLOROPROPANE	VOC	Cooling Pond	94575246SD	SD-F	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
2,2-DICHLOROPROPANE	VOC	Cooling Pond	94575247SD	SD-G	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
2,2-DICHLOROPROPANE	VOC	Cooling Pond	94575248SD	SD-H	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
2,2-DICHLOROPROPANE	VOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8260	09/25/1996	Sediment	0.001	U	0.001	0.01
2,2-DICHLOROPROPANE	VOC	119 ft from DP	96575205SD	96-SD5	----	8260	09/25/1996	Sediment	0.001	U	0.001	0.01
2,2-DICHLOROPROPANE	VOC	147 ft from DP	96575206SD	96-SD6	----	8260	09/25/1996	Sediment	0.0005	U	0.0005	0.005
2,2-DICHLOROPROPANE	VOC	165 ft from DP	96575208SD	96-SD8	----	8260	09/25/1996	Sediment	0.0005	U	0.0005	0.005
2,2-DICHLOROPROPANE	VOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8260	09/25/1996	Sediment	0.0005	U	0.0005	0.005
2,2-DICHLOROPROPANE	VOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.015
2,2-DICHLOROPROPANE	VOC	40 ft from DP	96575202SD	96-SD2	----	8260	09/25/1996	Sediment	0.001	U	0.001	0.01
2,2-DICHLOROPROPANE	VOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8260	09/25/1996	Sediment	0.001	U	0.001	0.01
2,2-DICHLOROPROPANE	VOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8260	09/25/1996	Sediment	0.0005	U	0.0005	0.005
2,2-DICHLOROPROPANE	VOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8260	09/26/1996	Sediment	0.001	U	0.001	0.01
2,2-DICHLOROPROPANE	VOC	Drum Accumulation Area	94575210SL	SS 8	2'	8260	10/06/1994	Soil	0.005	U		0.005
2,2-DICHLOROPROPANE	VOC	Drum Accumulation Area	94575211SL	SS 7	2'	8260	10/10/1994	Soil	0.005	U		0.005
2,2-DICHLOROPROPANE	VOC	Drum Accumulation Area	94575212SL	SS 6	2'	8260	10/10/1994	Soil	0.005	U		0.005
2,2-DICHLOROPROPANE	VOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8260	10/10/1994	Soil	0.005	U		0.005
2,2-DICHLOROPROPANE	VOC	Drum Accumulation Area	94575215SL	SS 4	2'	8260	10/10/1994	Soil	0.005	U		0.005
2,2-DICHLOROPROPANE	VOC	Drum Accumulation Area	94575216SL	SS 3	2'	8260	10/10/1994	Soil	0.005	U		0.005
2,2-DICHLOROPROPANE	VOC	Drum Accumulation Area	94575217SL	SS 2	2'	8260	10/10/1994	Soil	0.005	U		0.005
2,2-DICHLOROPROPANE	VOC	Drum Accumulation Area	94575218SL	SS 1	2'	8260	10/10/1994	Soil	0.005	U		0.005
2,2-DICHLOROPROPANE	VOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8260	11/03/1994	Soil	0.005	U		0.005
2,2-DICHLOROPROPANE	VOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8260	11/03/1994	Soil	0.005	U		0.005
2,2-DICHLOROPROPANE	VOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8260	11/07/1994	Soil	0.005	U		0.005
2,2-DICHLOROPROPANE	VOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8260	11/09/1994	Soil	0.005	U		0.005
2,2-DICHLOROPROPANE	VOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8260	11/11/1994	Soil	0.005	U		0.005
2,2-DICHLOROPROPANE	VOC	965752BH01	96575225SL	AP-3785	5	8260	10/02/1996	Soil	0.0005	U	0.0005	0.0005
2,2-DICHLOROPROPANE	VOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8260	10/03/1996	Soil	0.0005	U	0.0005	0.0005
2,2-DICHLOROPROPANE	VOC	965752BH04	96575238SL	AP-3788	2.5	8260	10/03/1996	Soil	0.0005	U	0.0005	0.0005

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
2,2-DICHLOROPROPANE	VOC	965752BH04	96575239SL-AVG	AP-3788	5	8260	10/03/1996	Soil	0.0005	U	0.0005	0.0005
2,2-DICHLOROPROPANE	VOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8260	10/06/1994	Soil	0.005	U		0.005
2,2-DICHLOROPROPANE	VOC	Drum Accumulation Area	94575203SL	SS 2	6"	8260	10/06/1994	Soil	0.005	U		0.005
2,2-DICHLOROPROPANE	VOC	Drum Accumulation Area	94575204SL	SS 3	6"	8260	10/06/1994	Soil	0.005	U		0.005
2,2-DICHLOROPROPANE	VOC	Drum Accumulation Area	94575205SL	SS 4	6"	8260	10/06/1994	Soil	0.005	U		0.005
2,2-DICHLOROPROPANE	VOC	Drum Accumulation Area	94575206SL	SS 5	6"	8260	10/06/1994	Soil	0.005	U		0.005
2,2-DICHLOROPROPANE	VOC	Drum Accumulation Area	94575207SL	SS 6	6"	8260	10/06/1994	Soil	0.005	U		0.005
2,2-DICHLOROPROPANE	VOC	Drum Accumulation Area	94575208SL	SS 7	6"	8260	10/06/1994	Soil	0.005	U		0.005
2,2-DICHLOROPROPANE	VOC	Drum Accumulation Area	94575209SL	SS 8	6"	8260	10/06/1994	Soil	0.005	U		0.005
2,2-DICHLOROPROPANE	VOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8260	11/03/1994	Soil	0.005	U		0.005
2,2-DICHLOROPROPANE	VOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8260	11/03/1994	Soil	0.005	U		0.005
2,2-DICHLOROPROPANE	VOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8260	11/07/1994	Soil	0.005	U		0.005
2,2-DICHLOROPROPANE	VOC	Cooling Pond	94575231SL	AP-3503	0-6'	8260	11/08/1994	Soil	0.005	U		0.005
2,2-DICHLOROPROPANE	VOC	Cooling Pond	94575235SL	AP-3504	0-2'	8260	11/09/1994	Soil	0.005	U		0.005
2,2-DICHLOROPROPANE	VOC	965752BH03	96575230SL	AP-3787	0	8260	10/03/1996	Soil	0.0005	U	0.0005	0.005
2,2-DICHLOROPROPANE	VOC	965752BH04	96575236SL-AVG	AP-3788	0	8260	10/03/1996	Soil	0.0005	U	0.0005	0.005
2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752132SL	P1	1.5 - 2	SW8290D	07/30/2002	Soil	0.00000289	U	0.00000289	0.000005
2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752202SL	P24	1 - 1.5	SW8290D	07/30/2002	Soil	0.00000036	=	0.00000288	0.000005
2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752215SL	P28	1.5 - 2	SW8290D	07/30/2002	Soil	0.0000029	U	0.0000029	0.000005
2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752220SL	P30	1 - 1.5	SW8290D	07/30/2002	Soil	0.00000289	U	0.00000289	0.000005
2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752157SL-AVG	P10	0 - 0.5	SW8290D	07/30/2002	Soil	0.000000455	=		
2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752208SL	P26	0 - 0.5	SW8290D	07/30/2002	Soil	0.0000037	=		
2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752217SL	P29	0 - 0.5	SW8290D	07/30/2002	Soil	0.000004	=		
2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75264SL	S31	1 - 1.5	SW8290D	07/26/2002	Soil	0.00000025	=	0.00000282	0.0000049
2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75270SL	S34	1 - 1.5	SW8290D	07/26/2002	Soil	0.00000037	=	0.00000286	0.0000049
2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75277SL	S38	0 - 0.5	SW8290D	07/26/2002	Soil	0.00000288	U	0.00000288	0.000005
2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75283SL-AVG	S41	0 - 0.5	SW8290D	07/26/2002	Soil	0.00000289	U		
2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Transformer Mounting Area	02B75238SL	T13	0 - 0.5	SW8290D	08/01/2002	Soil	0.0000045	=	0.00000289	0.000005
2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Transformer Mounting Area	02B75244SL	T15	0 - 0.5	SW8290D	08/01/2002	Soil	0.0000047	=	0.00000288	0.000005
2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B75216SL	T6	0 - 0.5	SW8290D	08/01/2002	Soil	0.0000018	=	0.00000285	0.0000049
2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B75229SL	T10	0 - 0.5	SW8290D	08/01/2002	Soil	0.0000011	=		
2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B752233	T11	0.5 - 1	SW8290D	10/15/2002	Soil	0.00000034	=	0.0000029	0.000005
2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	fiber cable route	LCI 1-1	LCI1	1-2'	8280A	05/10/2001	Soil	0.00001	U		0.00001
2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	DIOXIN/FURANS	fiber cable route	LCI 5-0	LCI5	0-1'	8280A	05/10/2001	Soil	0.00001	U		0.00001
2,3,4,7,8-PENTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752132SL	P1	1.5 - 2	SW8290D	07/30/2002	Soil	0.000001	U	0.000001	0.000005
2,3,4,7,8-PENTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752202SL	P24	1 - 1.5	SW8290D	07/30/2002	Soil	0.00000099	U	0.00000099	0.000005
2,3,4,7,8-PENTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752215SL	P28	1.5 - 2	SW8290D	07/30/2002	Soil	0.000001	U	0.000001	0.000005
2,3,4,7,8-PENTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752220SL	P30	1 - 1.5	SW8290D	07/30/2002	Soil	0.000001	U	0.000001	0.000005
2,3,4,7,8-PENTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752157SL-AVG	P10	0 - 0.5	SW8290D	07/30/2002	Soil	0.000000425	=		
2,3,4,7,8-PENTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752208SL	P26	0 - 0.5	SW8290D	07/30/2002	Soil	0.0000049	=		
2,3,4,7,8-PENTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752217SL	P29	0 - 0.5	SW8290D	07/30/2002	Soil	0.0000048	=		
2,3,4,7,8-PENTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75264SL	S31	1 - 1.5	SW8290D	07/26/2002	Soil	0.00000097	U	0.00000097	0.0000049
2,3,4,7,8-PENTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75270SL	S34	1 - 1.5	SW8290D	07/26/2002	Soil	0.0000003	=	0.00000099	0.0000049
2,3,4,7,8-PENTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75277SL	S38	0 - 0.5	SW8290D	07/26/2002	Soil	0.00000099	U	0.00000099	0.000005
2,3,4,7,8-PENTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75283SL-AVG	S41	0 - 0.5	SW8290D	07/26/2002	Soil	0.000001	U		
2,3,4,7,8-PENTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Transformer Mounting Area	02B75238SL	T13	0 - 0.5	SW8290D	08/01/2002	Soil	0.0000014	=	0.000001	0.000005
2,3,4,7,8-PENTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Transformer Mounting Area	02B75244SL	T15	0 - 0.5	SW8290D	08/01/2002	Soil	0.0000039	=	0.00000099	0.000005
2,3,4,7,8-PENTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B75216SL	T6	0 - 0.5	SW8290D	08/01/2002	Soil	0.000002	=	0.00000098	0.0000049
2,3,4,7,8-PENTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B75229SL	T10	0 - 0.5	SW8290D	08/01/2002	Soil	0.000001	U		
2,3,4,7,8-PENTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B752233	T11	0.5 - 1	SW8290D	10/15/2002	Soil	0.00000063	=	0.000001	0.000005
2,3,4,7,8-PENTACHLORODIBENZOFURAN	DIOXIN/FURANS	fiber cable route	LCI 1-1	LCI1	1-2'	8280A	05/10/2001	Soil	0.00001	U		0.00001
2,3,4,7,8-PENTACHLORODIBENZOFURAN	DIOXIN/FURANS	fiber cable route	LCI 5-0	LCI5	0-1'	8280A	05/10/2001	Soil	0.00001	U		0.00001
2,3,7,8-TETRACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752132SL	P1	1.5 - 2	SW8290D	07/30/2002	Soil	0.00000051	U	0.00000051	0.000001
2,3,7,8-TETRACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752202SL	P24	1 - 1.5	SW8290D	07/30/2002	Soil	0.00000051	U	0.00000051	0.000001
2,3,7,8-TETRACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752215SL	P28	1.5 - 2	SW8290D	07/30/2002	Soil	0.00000051	U	0.00000051	0.000001
2,3,7,8-TETRACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752220SL	P30	1 - 1.5	SW8290D	07/30/2002	Soil	0.00000065	=	0.00000051	0.000001
2,3,7,8-TETRACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752157SL-AVG	P10	0 - 0.5	SW8290D	07/30/2002	Soil	0.00000045	=		
2,3,7,8-TETRACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752208SL	P26	0 - 0.5	SW8290D	07/30/2002	Soil	0.0000019	=		
2,3,7,8-TETRACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752217SL	P29	0 - 0.5	SW8290D	07/30/2002	Soil	0.0000052	=		
2,3,7,8-TETRACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75264SL	S31	1 - 1.5	SW8290D	07/26/2002	Soil	0.0000005	U	0.0000005	0.000001
2,3,7,8-TETRACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75270SL	S34	1 - 1.5	SW8290D	07/26/2002	Soil	0.00000043	=	0.0000005	0.000001
2,3,7,8-TETRACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75277SL	S38	0 - 0.5	SW8290D	07/26/2002	Soil	0.0000009	=	0.00000051	0.000001

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
2,3,7,8-TETRACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75283SL-AVG	S41	0 - 0.5	SW8290D	07/26/2002	Soil	0.00000051	U		
2,3,7,8-TETRACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Transformer Mounting Area	02B75238SL	T13	0 - 0.5	SW8290D	08/01/2002	Soil	0.0000012	=	0.00000051	0.000001
2,3,7,8-TETRACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Transformer Mounting Area	02B75244SL	T15	0 - 0.5	SW8290D	08/01/2002	Soil	0.0000052	=	0.00000051	0.000001
2,3,7,8-TETRACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B75216SL	T6	0 - 0.5	SW8290D	08/01/2002	Soil	0.0000023	=	0.0000005	0.000001
2,3,7,8-TETRACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B75229SL	T10	0 - 0.5	SW8290D	08/01/2002	Soil	0.00000066	=		
2,3,7,8-TETRACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B752233	T11	0.5 - 1	SW8290D	10/15/2002	Soil	0.00000076	=	0.00000051	0.000001
2,3,7,8-TETRACHLORODIBENZOFURAN	DIOXIN/FURANS	fiber cable route	LCI 1-1	LCI1	1-2'	8280A	05/10/2001	Soil	0.000007	U		0.000007
2,3,7,8-TETRACHLORODIBENZOFURAN	DIOXIN/FURANS	fiber cable route	LCI 5-0	LCI5	0-1'	8280A	05/10/2001	Soil	0.000007	U		0.000007
2,3,7,8-TETRACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752132SL	P1	1.5 - 2	SW8290D	07/30/2002	Soil	0.0000007	U	0.0000007	0.000001
2,3,7,8-TETRACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752202SL	P24	1 - 1.5	SW8290D	07/30/2002	Soil	0.0000007	U	0.0000007	0.000001
2,3,7,8-TETRACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752215SL	P28	1.5 - 2	SW8290D	07/30/2002	Soil	0.0000007	U	0.0000007	0.000001
2,3,7,8-TETRACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752220SL	P30	1 - 1.5	SW8290D	07/30/2002	Soil	0.0000007	U	0.0000007	0.000001
2,3,7,8-TETRACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752157SL-AVG	P10	0 - 0.5	SW8290D	07/30/2002	Soil	0.00000069	U		
2,3,7,8-TETRACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752208SL	P26	0 - 0.5	SW8290D	07/30/2002	Soil	0.0000007	U		
2,3,7,8-TETRACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752217SL	P29	0 - 0.5	SW8290D	07/30/2002	Soil	0.0000007	U		
2,3,7,8-TETRACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75264SL	S31	1 - 1.5	SW8290D	07/26/2002	Soil	0.00000068	U	0.00000068	0.000001
2,3,7,8-TETRACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75270SL	S34	1 - 1.5	SW8290D	07/26/2002	Soil	0.00000069	U	0.00000069	0.000001
2,3,7,8-TETRACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75277SL	S38	0 - 0.5	SW8290D	07/26/2002	Soil	0.00000069	U	0.00000069	0.000001
2,3,7,8-TETRACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75283SL-AVG	S41	0 - 0.5	SW8290D	07/26/2002	Soil	0.0000007	U		
2,3,7,8-TETRACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Transformer Mounting Area	02B75238SL	T13	0 - 0.5	SW8290D	08/01/2002	Soil	0.0000007	U	0.0000007	0.000001
2,3,7,8-TETRACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Transformer Mounting Area	02B75244SL	T15	0 - 0.5	SW8290D	08/01/2002	Soil	0.00000026	=	0.00000069	0.000001
2,3,7,8-TETRACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B75216SL	T6	0 - 0.5	SW8290D	08/01/2002	Soil	0.00000069	U	0.00000069	0.000001
2,3,7,8-TETRACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B75229SL	T10	0 - 0.5	SW8290D	08/01/2002	Soil	0.0000007	U		
2,3,7,8-TETRACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B752233	T11	0.5 - 1	SW8290D	10/15/2002	Soil	0.0000007	U	0.0000007	0.000001
2,3,7,8-TETRACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	fiber cable route	LCI 1-1	LCI1	1-2'	8280A	05/10/2001	Soil	0.00001	U		0.00001
2,3,7,8-TETRACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	fiber cable route	LCI 5-0	LCI5	0-1'	8280A	05/10/2001	Soil	0.00001	U		0.00001
2,4 DB	SVOC	Drum Accumulation Area	94575210SL	SS 8	2'	8150	10/06/1994	Soil	0.5	U		0.5
2,4 DB	SVOC	Drum Accumulation Area	94575211SL	SS 7	2'	8150	10/10/1994	Soil	0.5	U		0.5
2,4 DB	SVOC	Drum Accumulation Area	94575212SL	SS 6	2'	8150	10/10/1994	Soil	0.5	U		0.5
2,4 DB	SVOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8150	10/10/1994	Soil	0.5	U		0.5
2,4 DB	SVOC	Drum Accumulation Area	94575215SL	SS 4	2'	8150	10/10/1994	Soil	0.5	U		0.5
2,4 DB	SVOC	Drum Accumulation Area	94575216SL	SS 3	2'	8150	10/10/1994	Soil	0.5	U		0.5
2,4 DB	SVOC	Drum Accumulation Area	94575217SL	SS 2	2'	8150	10/10/1994	Soil	0.5	U		0.5
2,4 DB	SVOC	Drum Accumulation Area	94575218SL	SS 1	2'	8150	10/10/1994	Soil	0.5	U		0.5
2,4 DB	SVOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8150	11/03/1994	Soil	0.5	U		0.5
2,4 DB	SVOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8150	11/03/1994	Soil	0.5	U		0.5
2,4 DB	SVOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8150	11/07/1994	Soil	0.5	U		0.5
2,4 DB	SVOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8150	11/09/1994	Soil	0.5	U		0.5
2,4 DB	SVOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8150	11/11/1994	Soil	0.5	U		0.5
2,4 DB	SVOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8150	10/06/1994	Soil	0.5	U		0.5
2,4 DB	SVOC	Drum Accumulation Area	94575203SL	SS 2	6"	8150	10/06/1994	Soil	0.5	U		0.5
2,4 DB	SVOC	Drum Accumulation Area	94575204SL	SS 3	6"	8150	10/06/1994	Soil	0.5	U		0.5
2,4 DB	SVOC	Drum Accumulation Area	94575205SL	SS 4	6"	8150	10/06/1994	Soil	0.5	U		0.5
2,4 DB	SVOC	Drum Accumulation Area	94575206SL	SS 5	6"	8150	10/06/1994	Soil	0.5	U		0.5
2,4 DB	SVOC	Drum Accumulation Area	94575207SL	SS 6	6"	8150	10/06/1994	Soil	0.5	U		0.5
2,4 DB	SVOC	Drum Accumulation Area	94575208SL	SS 7	6"	8150	10/06/1994	Soil	0.5	U		0.5
2,4 DB	SVOC	Drum Accumulation Area	94575209SL	SS 8	6"	8150	10/06/1994	Soil	0.5	U		0.5
2,4 DB	SVOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8150	11/03/1994	Soil	0.5	U		0.5
2,4 DB	SVOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8150	11/03/1994	Soil	0.5	U		0.5
2,4 DB	SVOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8150	11/07/1994	Soil	0.5	U		0.5
2,4 DB	SVOC	Cooling Pond	94575231SL	AP-3503	0-6'	8150	11/08/1994	Soil	0.5	U		0.5
2,4 DB	SVOC	Cooling Pond	94575235SL	AP-3504	0-2'	8150	11/09/1994	Soil	0.5	U		0.5
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	SVOC	Drum Accumulation Area	94575210SL	SS 8	2'	8150	10/06/1994	Soil	0.05	U		0.05
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	SVOC	Drum Accumulation Area	94575211SL	SS 7	2'	8150	10/10/1994	Soil	0.05	U		0.05
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	SVOC	Drum Accumulation Area	94575212SL	SS 6	2'	8150	10/10/1994	Soil	0.05	U		0.05
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	SVOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8150	10/10/1994	Soil	0.05	U		0.05
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	SVOC	Drum Accumulation Area	94575215SL	SS 4	2'	8150	10/10/1994	Soil	0.05	U		0.05
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	SVOC	Drum Accumulation Area	94575216SL	SS 3	2'	8150	10/10/1994	Soil	0.05	U		0.05
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	SVOC	Drum Accumulation Area	94575217SL	SS 2	2'	8150	10/10/1994	Soil	0.05	U		0.05
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	SVOC	Drum Accumulation Area	94575218SL	SS 1	2'	8150	10/10/1994	Soil	0.05	U		0.05
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	SVOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8150	11/03/1994	Soil	0.05	U		0.05
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	SVOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8150	11/03/1994	Soil	0.05	U		0.05

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	SVOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8150	11/07/1994	Soil	0.05	U		0.05
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	SVOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8150	11/09/1994	Soil	0.05	U		0.05
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	SVOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8150	11/11/1994	Soil	0.05	U		0.05
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	SVOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8150	10/06/1994	Soil	0.05	U		0.05
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	SVOC	Drum Accumulation Area	94575203SL	SS 2	6"	8150	10/06/1994	Soil	0.05	U		0.05
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	SVOC	Drum Accumulation Area	94575204SL	SS 3	6"	8150	10/06/1994	Soil	0.05	U		0.05
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	SVOC	Drum Accumulation Area	94575205SL	SS 4	6"	8150	10/06/1994	Soil	0.05	U		0.05
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	SVOC	Drum Accumulation Area	94575206SL	SS 5	6"	8150	10/06/1994	Soil	0.05	U		0.05
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	SVOC	Drum Accumulation Area	94575207SL	SS 6	6"	8150	10/06/1994	Soil	0.05	U		0.05
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	SVOC	Drum Accumulation Area	94575208SL	SS 7	6"	8150	10/06/1994	Soil	0.05	U		0.05
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	SVOC	Drum Accumulation Area	94575209SL	SS 8	6"	8150	10/06/1994	Soil	0.05	U		0.05
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	SVOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8150	11/03/1994	Soil	0.05	U		0.05
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	SVOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8150	11/03/1994	Soil	0.05	U		0.05
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	SVOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8150	11/07/1994	Soil	0.05	U		0.05
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	SVOC	Cooling Pond	94575231SL	AP-3503	0-6'	8150	11/08/1994	Soil	0.05	U		0.05
2,4,5-T (TRICHLOROPHENOXYACETIC ACID)	SVOC	Cooling Pond	94575235SL	AP-3504	0-2'	8150	11/09/1994	Soil	0.05	U		0.05
2,4,5-TRICHLOROPHENOL	SVOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
2,4,5-TRICHLOROPHENOL	SVOC	Cooling Pond	94575242SD	SD-B	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
2,4,5-TRICHLOROPHENOL	SVOC	Cooling Pond	94575243SD	SD-C	0-6"	8270	12/08/1994	Sediment	4	U		4
2,4,5-TRICHLOROPHENOL	SVOC	Cooling Pond	94575244SD	SD-D	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
2,4,5-TRICHLOROPHENOL	SVOC	Cooling Pond	94575245SD	SD-E	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
2,4,5-TRICHLOROPHENOL	SVOC	Cooling Pond	94575246SD	SD-F	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
2,4,5-TRICHLOROPHENOL	SVOC	Cooling Pond	94575247SD	SD-G	0-6"	8270	12/08/1994	Sediment	0.8	U		0.8
2,4,5-TRICHLOROPHENOL	SVOC	Cooling Pond	94575248SD	SD-H	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
2,4,5-TRICHLOROPHENOL	SVOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8270	09/25/1996	Sediment	0.4	U	0.4	3
2,4,5-TRICHLOROPHENOL	SVOC	119 ft from DP	96575205SD	96-SD5	----	8270	09/25/1996	Sediment	0.09	U	0.09	0.7
2,4,5-TRICHLOROPHENOL	SVOC	147 ft from DP	96575206SD	96-SD6	----	8270	09/25/1996	Sediment	0.04	U	0.04	0.3
2,4,5-TRICHLOROPHENOL	SVOC	165 ft from DP	96575208SD	96-SD8	----	8270	09/25/1996	Sediment	0.04	U	0.04	0.3
2,4,5-TRICHLOROPHENOL	SVOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8270	09/25/1996	Sediment	0.04	U	0.04	0.3
2,4,5-TRICHLOROPHENOL	SVOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8270	09/25/1996	Sediment	0.08	U	0.08	0.7
2,4,5-TRICHLOROPHENOL	SVOC	40 ft from DP	96575202SD	96-SD2	----	8270	09/25/1996	Sediment	0.09	U	0.09	0.7
2,4,5-TRICHLOROPHENOL	SVOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8270	09/25/1996	Sediment	0.09	U	0.09	0.7
2,4,5-TRICHLOROPHENOL	SVOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8270	09/25/1996	Sediment	0.04	U	0.04	0.3
2,4,5-TRICHLOROPHENOL	SVOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8270	09/26/1996	Sediment	0.2	U	0.2	1.2
2,4,5-TRICHLOROPHENOL	SVOC	Drum Accumulation Area	94575210SL	SS 8	2'	8270	10/06/1994	Soil	0.3	U		0.3
2,4,5-TRICHLOROPHENOL	SVOC	Drum Accumulation Area	94575211SL	SS 7	2'	8270	10/10/1994	Soil	0.3	U		0.3
2,4,5-TRICHLOROPHENOL	SVOC	Drum Accumulation Area	94575212SL	SS 6	2'	8270	10/10/1994	Soil	0.3	U		0.3
2,4,5-TRICHLOROPHENOL	SVOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8270	10/10/1994	Soil	0.5	U		0.5
2,4,5-TRICHLOROPHENOL	SVOC	Drum Accumulation Area	94575215SL	SS 4	2'	8270	10/10/1994	Soil	0.3	U		0.3
2,4,5-TRICHLOROPHENOL	SVOC	Drum Accumulation Area	94575216SL	SS 3	2'	8270	10/10/1994	Soil	0.3	U		0.3
2,4,5-TRICHLOROPHENOL	SVOC	Drum Accumulation Area	94575217SL	SS 2	2'	8270	10/10/1994	Soil	0.3	U		0.3
2,4,5-TRICHLOROPHENOL	SVOC	Drum Accumulation Area	94575218SL	SS 1	2'	8270	10/10/1994	Soil	0.3	U		0.3
2,4,5-TRICHLOROPHENOL	SVOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8270	11/03/1994	Soil	0.3	U		0.3
2,4,5-TRICHLOROPHENOL	SVOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8270	11/03/1994	Soil	0.3	U		0.3
2,4,5-TRICHLOROPHENOL	SVOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8270	11/07/1994	Soil	0.3	U		0.3
2,4,5-TRICHLOROPHENOL	SVOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8270	11/09/1994	Soil	0.3	U		0.3
2,4,5-TRICHLOROPHENOL	SVOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8270	11/11/1994	Soil	0.3	U		0.3
2,4,5-TRICHLOROPHENOL	SVOC	965752BH01	96575225SL	AP-3785	5	8270	10/02/1996	Soil	0.04	U	0.04	0.04
2,4,5-TRICHLOROPHENOL	SVOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8270	10/03/1996	Soil	0.08	U	0.08	0.08
2,4,5-TRICHLOROPHENOL	SVOC	965752BH03	96575233SL	AP-3787	5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
2,4,5-TRICHLOROPHENOL	SVOC	965752BH04	96575236SL	AP-3788	2.5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
2,4,5-TRICHLOROPHENOL	SVOC	965752BH04	96575239SL-AVG	AP-3788	5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
2,4,5-TRICHLOROPHENOL	SVOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8270	10/06/1994	Soil	0.3	U		0.3
2,4,5-TRICHLOROPHENOL	SVOC	Drum Accumulation Area	94575203SL	SS 2	6"	8270	10/06/1994	Soil	0.3	U		0.3
2,4,5-TRICHLOROPHENOL	SVOC	Drum Accumulation Area	94575204SL	SS 3	6"	8270	10/06/1994	Soil	0.3	U		0.3
2,4,5-TRICHLOROPHENOL	SVOC	Drum Accumulation Area	94575205SL	SS 4	6"	8270	10/06/1994	Soil	0.3	U		0.3
2,4,5-TRICHLOROPHENOL	SVOC	Drum Accumulation Area	94575206SL	SS 5	6"	8270	10/06/1994	Soil	0.3	U		0.3
2,4,5-TRICHLOROPHENOL	SVOC	Drum Accumulation Area	94575207SL	SS 6	6"	8270	10/06/1994	Soil	0.3	U		0.3
2,4,5-TRICHLOROPHENOL	SVOC	Drum Accumulation Area	94575208SL	SS 7	6"	8270	10/06/1994	Soil	0.3	U		0.3
2,4,5-TRICHLOROPHENOL	SVOC	Drum Accumulation Area	94575209SL	SS 8	6"	8270	10/06/1994	Soil	0.3	U		0.3
2,4,5-TRICHLOROPHENOL	SVOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8270	11/03/1994	Soil	0.6	U		0.6
2,4,5-TRICHLOROPHENOL	SVOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8270	11/03/1994	Soil	0.6	U		0.6

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
2,4,5-TRICHLOROPHENOL	SVOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8270	11/07/1994	Soil	0.3	U		0.3
2,4,5-TRICHLOROPHENOL	SVOC	Cooling Pond	94575231SL	AP-3503	0-6'	8270	11/08/1994	Soil	0.3	U		0.3
2,4,5-TRICHLOROPHENOL	SVOC	Cooling Pond	94575235SL	AP-3504	0-2'	8270	11/09/1994	Soil	0.3	U		0.3
2,4,5-TRICHLOROPHENOL	SVOC	965752BH03	96575230SL	AP-3787	0	8270	10/03/1996	Soil	0.04	U	0.04	0.3
2,4,5-TRICHLOROPHENOL	SVOC	965752BH04	96575236SL-AVG	AP-3788	0	8270	10/03/1996	Soil	0.04	U	0.04	0.3
2,4,6-TRICHLOROPHENOL	SVOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
2,4,6-TRICHLOROPHENOL	SVOC	Cooling Pond	94575242SD	SD-B	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
2,4,6-TRICHLOROPHENOL	SVOC	Cooling Pond	94575243SD	SD-C	0-6"	8270	12/08/1994	Sediment	4	U		4
2,4,6-TRICHLOROPHENOL	SVOC	Cooling Pond	94575244SD	SD-D	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
2,4,6-TRICHLOROPHENOL	SVOC	Cooling Pond	94575245SD	SD-E	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
2,4,6-TRICHLOROPHENOL	SVOC	Cooling Pond	94575246SD	SD-F	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
2,4,6-TRICHLOROPHENOL	SVOC	Cooling Pond	94575247SD	SD-G	0-6"	8270	12/08/1994	Sediment	0.8	U		0.8
2,4,6-TRICHLOROPHENOL	SVOC	Cooling Pond	94575248SD	SD-H	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
2,4,6-TRICHLOROPHENOL	SVOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8270	09/25/1996	Sediment	0.4	U	0.4	3
2,4,6-TRICHLOROPHENOL	SVOC	119 ft from DP	96575205SD	96-SD5	----	8270	09/25/1996	Sediment	0.09	U	0.09	0.7
2,4,6-TRICHLOROPHENOL	SVOC	147 ft from DP	96575206SD	96-SD6	----	8270	09/25/1996	Sediment	0.04	U	0.04	0.3
2,4,6-TRICHLOROPHENOL	SVOC	165 ft from DP	96575208SD	96-SD8	----	8270	09/25/1996	Sediment	0.04	U	0.04	0.3
2,4,6-TRICHLOROPHENOL	SVOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8270	09/25/1996	Sediment	0.04	U	0.04	0.3
2,4,6-TRICHLOROPHENOL	SVOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8270	09/25/1996	Sediment	0.08	U	0.08	0.7
2,4,6-TRICHLOROPHENOL	SVOC	40 ft from DP	96575202SD	96-SD2	----	8270	09/25/1996	Sediment	0.09	U	0.09	0.7
2,4,6-TRICHLOROPHENOL	SVOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8270	09/25/1996	Sediment	0.09	U	0.09	0.7
2,4,6-TRICHLOROPHENOL	SVOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8270	09/25/1996	Sediment	0.04	U	0.04	0.3
2,4,6-TRICHLOROPHENOL	SVOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8270	09/26/1996	Sediment	0.2	U	0.2	1.2
2,4,6-TRICHLOROPHENOL	SVOC	Drum Accumulation Area	94575210SL	SS 8	2'	8270	10/06/1994	Soil	0.3	U		0.3
2,4,6-TRICHLOROPHENOL	SVOC	Drum Accumulation Area	94575211SL	SS 7	2'	8270	10/10/1994	Soil	0.3	U		0.3
2,4,6-TRICHLOROPHENOL	SVOC	Drum Accumulation Area	94575212SL	SS 6	2'	8270	10/10/1994	Soil	0.3	U		0.3
2,4,6-TRICHLOROPHENOL	SVOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8270	10/10/1994	Soil	0.5	U		0.5
2,4,6-TRICHLOROPHENOL	SVOC	Drum Accumulation Area	94575215SL	SS 4	2'	8270	10/10/1994	Soil	0.3	U		0.3
2,4,6-TRICHLOROPHENOL	SVOC	Drum Accumulation Area	94575216SL	SS 3	2'	8270	10/10/1994	Soil	0.3	U		0.3
2,4,6-TRICHLOROPHENOL	SVOC	Drum Accumulation Area	94575217SL	SS 2	2'	8270	10/10/1994	Soil	0.3	U		0.3
2,4,6-TRICHLOROPHENOL	SVOC	Drum Accumulation Area	94575218SL	SS 1	2'	8270	10/10/1994	Soil	0.3	U		0.3
2,4,6-TRICHLOROPHENOL	SVOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8270	11/03/1994	Soil	0.3	U		0.3
2,4,6-TRICHLOROPHENOL	SVOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8270	11/03/1994	Soil	0.3	U		0.3
2,4,6-TRICHLOROPHENOL	SVOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8270	11/07/1994	Soil	0.3	U		0.3
2,4,6-TRICHLOROPHENOL	SVOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8270	11/09/1994	Soil	0.3	U		0.3
2,4,6-TRICHLOROPHENOL	SVOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8270	11/11/1994	Soil	0.3	U		0.3
2,4,6-TRICHLOROPHENOL	SVOC	965752BH01	96575225SL	AP-3785	5	8270	10/02/1996	Soil	0.04	U	0.04	0.04
2,4,6-TRICHLOROPHENOL	SVOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8270	10/03/1996	Soil	0.08	U	0.08	0.08
2,4,6-TRICHLOROPHENOL	SVOC	965752BH03	96575233SL	AP-3787	5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
2,4,6-TRICHLOROPHENOL	SVOC	965752BH04	96575238SL	AP-3788	2.5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
2,4,6-TRICHLOROPHENOL	SVOC	965752BH04	96575239SL-AVG	AP-3788	5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
2,4,6-TRICHLOROPHENOL	SVOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8270	10/06/1994	Soil	0.3	U		0.3
2,4,6-TRICHLOROPHENOL	SVOC	Drum Accumulation Area	94575203SL	SS 2	6"	8270	10/06/1994	Soil	0.3	U		0.3
2,4,6-TRICHLOROPHENOL	SVOC	Drum Accumulation Area	94575204SL	SS 3	6"	8270	10/06/1994	Soil	0.3	U		0.3
2,4,6-TRICHLOROPHENOL	SVOC	Drum Accumulation Area	94575205SL	SS 4	6"	8270	10/06/1994	Soil	0.3	U		0.3
2,4,6-TRICHLOROPHENOL	SVOC	Drum Accumulation Area	94575206SL	SS 5	6"	8270	10/06/1994	Soil	0.3	U		0.3
2,4,6-TRICHLOROPHENOL	SVOC	Drum Accumulation Area	94575207SL	SS 6	6"	8270	10/06/1994	Soil	0.3	U		0.3
2,4,6-TRICHLOROPHENOL	SVOC	Drum Accumulation Area	94575208SL	SS 7	6"	8270	10/06/1994	Soil	0.3	U		0.3
2,4,6-TRICHLOROPHENOL	SVOC	Drum Accumulation Area	94575209SL	SS 8	6"	8270	10/06/1994	Soil	0.3	U		0.3
2,4,6-TRICHLOROPHENOL	SVOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8270	11/03/1994	Soil	0.6	U		0.6
2,4,6-TRICHLOROPHENOL	SVOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8270	11/03/1994	Soil	0.6	U		0.6
2,4,6-TRICHLOROPHENOL	SVOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8270	11/07/1994	Soil	0.3	U		0.3
2,4,6-TRICHLOROPHENOL	SVOC	Cooling Pond	94575231SL	AP-3503	0-6'	8270	11/08/1994	Soil	0.3	U		0.3
2,4,6-TRICHLOROPHENOL	SVOC	Cooling Pond	94575235SL	AP-3504	0-2'	8270	11/09/1994	Soil	0.3	U		0.3
2,4,6-TRICHLOROPHENOL	SVOC	965752BH03	96575230SL	AP-3787	0	8270	10/03/1996	Soil	0.04	U	0.04	0.3
2,4,6-TRICHLOROPHENOL	SVOC	965752BH04	96575236SL-AVG	AP-3788	0	8270	10/03/1996	Soil	0.04	U	0.04	0.3
2,4-D (DICHLOROPHENOXYACETIC ACID)	SVOC	Drum Accumulation Area	94575210SL	SS 8	2'	8150	10/06/1994	Soil	0.2	U		0.2
2,4-D (DICHLOROPHENOXYACETIC ACID)	SVOC	Drum Accumulation Area	94575211SL	SS 7	2'	8150	10/10/1994	Soil	0.2	U		0.2
2,4-D (DICHLOROPHENOXYACETIC ACID)	SVOC	Drum Accumulation Area	94575212SL	SS 6	2'	8150	10/10/1994	Soil	0.2	U		0.2
2,4-D (DICHLOROPHENOXYACETIC ACID)	SVOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8150	10/10/1994	Soil	0.2	U		0.2
2,4-D (DICHLOROPHENOXYACETIC ACID)	SVOC	Drum Accumulation Area	94575215SL	SS 4	2'	8150	10/10/1994	Soil	0.2	U		0.2
2,4-D (DICHLOROPHENOXYACETIC ACID)	SVOC	Drum Accumulation Area	94575216SL	SS 3	2'	8150	10/10/1994	Soil	0.2	U		0.2

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
2,4-D (DICHLOROPHENOXYACETIC ACID)	SVOC	Drum Accumulation Area	94575217SL	SS 2	2'	8150	10/10/1994	Soil	0.2	U		0.2
2,4-D (DICHLOROPHENOXYACETIC ACID)	SVOC	Drum Accumulation Area	94575218SL	SS 1	2'	8150	10/10/1994	Soil	0.2	U		0.2
2,4-D (DICHLOROPHENOXYACETIC ACID)	SVOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8150	11/03/1994	Soil	0.2	U		0.2
2,4-D (DICHLOROPHENOXYACETIC ACID)	SVOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8150	11/03/1994	Soil	0.2	U		0.2
2,4-D (DICHLOROPHENOXYACETIC ACID)	SVOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8150	11/07/1994	Soil	0.2	U		0.2
2,4-D (DICHLOROPHENOXYACETIC ACID)	SVOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8150	11/09/1994	Soil	0.2	U		0.2
2,4-D (DICHLOROPHENOXYACETIC ACID)	SVOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8150	11/11/1994	Soil	0.2	U		0.2
2,4-D (DICHLOROPHENOXYACETIC ACID)	SVOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8150	10/06/1994	Soil	0.2	U		0.2
2,4-D (DICHLOROPHENOXYACETIC ACID)	SVOC	Drum Accumulation Area	94575203SL	SS 2	6"	8150	10/06/1994	Soil	0.2	U		0.2
2,4-D (DICHLOROPHENOXYACETIC ACID)	SVOC	Drum Accumulation Area	94575204SL	SS 3	6"	8150	10/06/1994	Soil	0.2	U		0.2
2,4-D (DICHLOROPHENOXYACETIC ACID)	SVOC	Drum Accumulation Area	94575205SL	SS 4	6"	8150	10/06/1994	Soil	0.2	U		0.2
2,4-D (DICHLOROPHENOXYACETIC ACID)	SVOC	Drum Accumulation Area	94575206SL	SS 5	6"	8150	10/06/1994	Soil	0.2	U		0.2
2,4-D (DICHLOROPHENOXYACETIC ACID)	SVOC	Drum Accumulation Area	94575207SL	SS 6	6"	8150	10/06/1994	Soil	0.2	U		0.2
2,4-D (DICHLOROPHENOXYACETIC ACID)	SVOC	Drum Accumulation Area	94575208SL	SS 7	6"	8150	10/06/1994	Soil	0.2	U		0.2
2,4-D (DICHLOROPHENOXYACETIC ACID)	SVOC	Drum Accumulation Area	94575209SL	SS 8	6"	8150	10/06/1994	Soil	0.2	U		0.2
2,4-D (DICHLOROPHENOXYACETIC ACID)	SVOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8150	11/03/1994	Soil	0.2	U		0.2
2,4-D (DICHLOROPHENOXYACETIC ACID)	SVOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8150	11/03/1994	Soil	0.2	U		0.2
2,4-D (DICHLOROPHENOXYACETIC ACID)	SVOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8150	11/07/1994	Soil	0.2	U		0.2
2,4-D (DICHLOROPHENOXYACETIC ACID)	SVOC	Cooling Pond	94575231SL	AP-3503	0-6'	8150	11/08/1994	Soil	0.2	U		0.2
2,4-D (DICHLOROPHENOXYACETIC ACID)	SVOC	Cooling Pond	94575235SL	AP-3504	0-2'	8150	11/09/1994	Soil	0.2	U		0.2
2,4-DICHLOROPHENOL	SVOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
2,4-DICHLOROPHENOL	SVOC	Cooling Pond	94575242SD	SD-B	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
2,4-DICHLOROPHENOL	SVOC	Cooling Pond	94575243SD	SD-C	0-6"	8270	12/08/1994	Sediment	4	U		4
2,4-DICHLOROPHENOL	SVOC	Cooling Pond	94575244SD	SD-D	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
2,4-DICHLOROPHENOL	SVOC	Cooling Pond	94575245SD	SD-E	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
2,4-DICHLOROPHENOL	SVOC	Cooling Pond	94575246SD	SD-F	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
2,4-DICHLOROPHENOL	SVOC	Cooling Pond	94575247SD	SD-G	0-6"	8270	12/08/1994	Sediment	0.8	U		0.8
2,4-DICHLOROPHENOL	SVOC	Cooling Pond	94575248SD	SD-H	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
2,4-DICHLOROPHENOL	SVOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8270	09/25/1996	Sediment	0.4	U	0.4	3
2,4-DICHLOROPHENOL	SVOC	119 ft from DP	96575205SD	96-SD5	----	8270	09/25/1996	Sediment	0.09	U	0.09	0.7
2,4-DICHLOROPHENOL	SVOC	147 ft from DP	96575206SD	96-SD6	----	8270	09/25/1996	Sediment	0.04	U	0.04	0.3
2,4-DICHLOROPHENOL	SVOC	165 ft from DP	96575208SD	96-SD8	----	8270	09/25/1996	Sediment	0.04	U	0.04	0.3
2,4-DICHLOROPHENOL	SVOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8270	09/25/1996	Sediment	0.04	U	0.04	0.3
2,4-DICHLOROPHENOL	SVOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8270	09/25/1996	Sediment	0.08	U	0.08	0.7
2,4-DICHLOROPHENOL	SVOC	40 ft from DP	96575202SD	96-SD2	----	8270	09/25/1996	Sediment	0.09	U	0.09	0.7
2,4-DICHLOROPHENOL	SVOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8270	09/25/1996	Sediment	0.09	U	0.09	0.7
2,4-DICHLOROPHENOL	SVOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8270	09/25/1996	Sediment	0.04	U	0.04	0.3
2,4-DICHLOROPHENOL	SVOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8270	09/26/1996	Sediment	0.2	U	0.2	1.2
2,4-DICHLOROPHENOL	SVOC	Drum Accumulation Area	94575210SL	SS 8	2'	8270	10/06/1994	Soil	0.3	U		0.3
2,4-DICHLOROPHENOL	SVOC	Drum Accumulation Area	94575211SL	SS 7	2'	8270	10/10/1994	Soil	0.3	U		0.3
2,4-DICHLOROPHENOL	SVOC	Drum Accumulation Area	94575212SL	SS 6	2'	8270	10/10/1994	Soil	0.3	U		0.3
2,4-DICHLOROPHENOL	SVOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8270	10/10/1994	Soil	0.5	U		0.5
2,4-DICHLOROPHENOL	SVOC	Drum Accumulation Area	94575215SL	SS 4	2'	8270	10/10/1994	Soil	0.3	U		0.3
2,4-DICHLOROPHENOL	SVOC	Drum Accumulation Area	94575216SL	SS 3	2'	8270	10/10/1994	Soil	0.3	U		0.3
2,4-DICHLOROPHENOL	SVOC	Drum Accumulation Area	94575217SL	SS 2	2'	8270	10/10/1994	Soil	0.3	U		0.3
2,4-DICHLOROPHENOL	SVOC	Drum Accumulation Area	94575218SL	SS 1	2'	8270	10/10/1994	Soil	0.3	U		0.3
2,4-DICHLOROPHENOL	SVOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8270	11/03/1994	Soil	0.3	U		0.3
2,4-DICHLOROPHENOL	SVOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8270	11/03/1994	Soil	0.3	U		0.3
2,4-DICHLOROPHENOL	SVOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8270	11/07/1994	Soil	0.3	U		0.3
2,4-DICHLOROPHENOL	SVOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8270	11/09/1994	Soil	0.3	U		0.3
2,4-DICHLOROPHENOL	SVOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8270	11/11/1994	Soil	0.3	U		0.3
2,4-DICHLOROPHENOL	SVOC	965752BH01	96575225SL	AP-3785	5	8270	10/02/1996	Soil	0.04	U	0.04	0.04
2,4-DICHLOROPHENOL	SVOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8270	10/03/1996	Soil	0.08	U	0.08	0.08
2,4-DICHLOROPHENOL	SVOC	965752BH03	96575233SL	AP-3787	5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
2,4-DICHLOROPHENOL	SVOC	965752BH04	96575238SL	AP-3788	2.5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
2,4-DICHLOROPHENOL	SVOC	965752BH04	96575239SL-AVG	AP-3788	5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
2,4-DICHLOROPHENOL	SVOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8270	10/06/1994	Soil	0.3	U		0.3
2,4-DICHLOROPHENOL	SVOC	Drum Accumulation Area	94575203SL	SS 2	6"	8270	10/06/1994	Soil	0.3	U		0.3
2,4-DICHLOROPHENOL	SVOC	Drum Accumulation Area	94575204SL	SS 3	6"	8270	10/06/1994	Soil	0.3	U		0.3
2,4-DICHLOROPHENOL	SVOC	Drum Accumulation Area	94575205SL	SS 4	6"	8270	10/06/1994	Soil	0.3	U		0.3
2,4-DICHLOROPHENOL	SVOC	Drum Accumulation Area	94575206SL	SS 5	6"	8270	10/06/1994	Soil	0.3	U		0.3
2,4-DICHLOROPHENOL	SVOC	Drum Accumulation Area	94575207SL	SS 6	6"	8270	10/06/1994	Soil	0.3	U		0.3

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
2,4-DICHLOROPHENOL	SVOC	Drum Accumulation Area	94575208SL	SS 7	6"	8270	10/06/1994	Soil	0.3	U		0.3
2,4-DICHLOROPHENOL	SVOC	Drum Accumulation Area	94575209SL	SS 8	6"	8270	10/06/1994	Soil	0.3	U		0.3
2,4-DICHLOROPHENOL	SVOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8270	11/03/1994	Soil	0.6	U		0.6
2,4-DICHLOROPHENOL	SVOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8270	11/03/1994	Soil	0.6	U		0.6
2,4-DICHLOROPHENOL	SVOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8270	11/07/1994	Soil	0.3	U		0.3
2,4-DICHLOROPHENOL	SVOC	Cooling Pond	94575231SL	AP-3503	0-6'	8270	11/08/1994	Soil	0.3	U		0.3
2,4-DICHLOROPHENOL	SVOC	Cooling Pond	94575235SL	AP-3504	0-2'	8270	11/09/1994	Soil	0.3	U		0.3
2,4-DICHLOROPHENOL	SVOC	965752BH03	96575230SL	AP-3787	0	8270	10/03/1996	Soil	0.04	U	0.04	0.3
2,4-DICHLOROPHENOL	SVOC	965752BH04	96575236SL-AVG	AP-3788	0	8270	10/03/1996	Soil	0.04	U	0.04	0.3
2,4-DIMETHYLPHENOL	SVOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
2,4-DIMETHYLPHENOL	SVOC	Cooling Pond	94575242SD	SD-B	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
2,4-DIMETHYLPHENOL	SVOC	Cooling Pond	94575243SD	SD-C	0-6"	8270	12/08/1994	Sediment	4	U		4
2,4-DIMETHYLPHENOL	SVOC	Cooling Pond	94575244SD	SD-D	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
2,4-DIMETHYLPHENOL	SVOC	Cooling Pond	94575245SD	SD-E	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
2,4-DIMETHYLPHENOL	SVOC	Cooling Pond	94575246SD	SD-F	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
2,4-DIMETHYLPHENOL	SVOC	Cooling Pond	94575247SD	SD-G	0-6"	8270	12/08/1994	Sediment	0.8	U		0.8
2,4-DIMETHYLPHENOL	SVOC	Cooling Pond	94575248SD	SD-H	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
2,4-DIMETHYLPHENOL	SVOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8270	09/25/1996	Sediment	0.2	U	0.2	3
2,4-DIMETHYLPHENOL	SVOC	119 ft from DP	96575205SD	96-SD5	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.7
2,4-DIMETHYLPHENOL	SVOC	147 ft from DP	96575206SD	96-SD6	----	8270	09/25/1996	Sediment	0.02	U	0.02	0.3
2,4-DIMETHYLPHENOL	SVOC	165 ft from DP	96575208SD	96-SD8	----	8270	09/25/1996	Sediment	0.02	U	0.02	0.3
2,4-DIMETHYLPHENOL	SVOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8270	09/25/1996	Sediment	0.02	U	0.02	0.3
2,4-DIMETHYLPHENOL	SVOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8270	09/25/1996	Sediment	0.04	U	0.04	0.7
2,4-DIMETHYLPHENOL	SVOC	40 ft from DP	96575202SD	96-SD2	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.7
2,4-DIMETHYLPHENOL	SVOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.7
2,4-DIMETHYLPHENOL	SVOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8270	09/25/1996	Sediment	0.02	U	0.02	0.3
2,4-DIMETHYLPHENOL	SVOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8270	09/26/1996	Sediment	0.08	U	0.08	1.2
2,4-DIMETHYLPHENOL	SVOC	Drum Accumulation Area	94575210SL	SS 8	2'	8270	10/06/1994	Soil	0.3	U		0.3
2,4-DIMETHYLPHENOL	SVOC	Drum Accumulation Area	94575211SL	SS 7	2'	8270	10/10/1994	Soil	0.3	U		0.3
2,4-DIMETHYLPHENOL	SVOC	Drum Accumulation Area	94575212SL	SS 6	2'	8270	10/10/1994	Soil	0.3	U		0.3
2,4-DIMETHYLPHENOL	SVOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8270	10/10/1994	Soil	0.5	U		0.5
2,4-DIMETHYLPHENOL	SVOC	Drum Accumulation Area	94575215SL	SS 4	2'	8270	10/10/1994	Soil	0.3	U		0.3
2,4-DIMETHYLPHENOL	SVOC	Drum Accumulation Area	94575216SL	SS 3	2'	8270	10/10/1994	Soil	0.3	U		0.3
2,4-DIMETHYLPHENOL	SVOC	Drum Accumulation Area	94575217SL	SS 2	2'	8270	10/10/1994	Soil	0.3	U		0.3
2,4-DIMETHYLPHENOL	SVOC	Drum Accumulation Area	94575218SL	SS 1	2'	8270	10/10/1994	Soil	0.3	U		0.3
2,4-DIMETHYLPHENOL	SVOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8270	11/03/1994	Soil	0.3	U		0.3
2,4-DIMETHYLPHENOL	SVOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8270	11/03/1994	Soil	0.3	U		0.3
2,4-DIMETHYLPHENOL	SVOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8270	11/07/1994	Soil	0.3	U		0.3
2,4-DIMETHYLPHENOL	SVOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8270	11/09/1994	Soil	0.3	U		0.3
2,4-DIMETHYLPHENOL	SVOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8270	11/11/1994	Soil	0.3	U		0.3
2,4-DIMETHYLPHENOL	SVOC	965752BH01	96575225SL	AP-3785	5	8270	10/02/1996	Soil	0.02	U	0.02	0.02
2,4-DIMETHYLPHENOL	SVOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
2,4-DIMETHYLPHENOL	SVOC	965752BH03	96575233SL	AP-3787	5	8270	10/03/1996	Soil	0.02	U	0.02	0.02
2,4-DIMETHYLPHENOL	SVOC	965752BH04	96575238SL	AP-3788	2.5	8270	10/03/1996	Soil	0.02	U	0.02	0.02
2,4-DIMETHYLPHENOL	SVOC	965752BH04	96575239SL-AVG	AP-3788	5	8270	10/03/1996	Soil	0.02	U	0.02	0.02
2,4-DIMETHYLPHENOL	SVOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8270	10/06/1994	Soil	0.3	U		0.3
2,4-DIMETHYLPHENOL	SVOC	Drum Accumulation Area	94575203SL	SS 2	6"	8270	10/06/1994	Soil	0.3	U		0.3
2,4-DIMETHYLPHENOL	SVOC	Drum Accumulation Area	94575204SL	SS 3	6"	8270	10/06/1994	Soil	0.3	U		0.3
2,4-DIMETHYLPHENOL	SVOC	Drum Accumulation Area	94575205SL	SS 4	6"	8270	10/06/1994	Soil	0.3	U		0.3
2,4-DIMETHYLPHENOL	SVOC	Drum Accumulation Area	94575206SL	SS 5	6"	8270	10/06/1994	Soil	0.3	U		0.3
2,4-DIMETHYLPHENOL	SVOC	Drum Accumulation Area	94575207SL	SS 6	6"	8270	10/06/1994	Soil	0.3	U		0.3
2,4-DIMETHYLPHENOL	SVOC	Drum Accumulation Area	94575208SL	SS 7	6"	8270	10/06/1994	Soil	0.3	U		0.3
2,4-DIMETHYLPHENOL	SVOC	Drum Accumulation Area	94575209SL	SS 8	6"	8270	10/06/1994	Soil	0.3	U		0.3
2,4-DIMETHYLPHENOL	SVOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8270	11/03/1994	Soil	0.6	U		0.6
2,4-DIMETHYLPHENOL	SVOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8270	11/03/1994	Soil	0.6	U		0.6
2,4-DIMETHYLPHENOL	SVOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8270	11/07/1994	Soil	0.3	U		0.3
2,4-DIMETHYLPHENOL	SVOC	Cooling Pond	94575231SL	AP-3503	0-6'	8270	11/08/1994	Soil	0.3	U		0.3
2,4-DIMETHYLPHENOL	SVOC	Cooling Pond	94575235SL	AP-3504	0-2'	8270	11/09/1994	Soil	0.3	U		0.3
2,4-DIMETHYLPHENOL	SVOC	965752BH03	96575230SL	AP-3787	0	8270	10/03/1996	Soil	0.02	U	0.02	0.3
2,4-DIMETHYLPHENOL	SVOC	965752BH04	96575236SL-AVG	AP-3788	0	8270	10/03/1996	Soil	0.02	U	0.02	0.3
2,4-DINITROPHENOL	SVOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8270	12/08/1994	Sediment	2	U		2
2,4-DINITROPHENOL	SVOC	Cooling Pond	94575242SD	SD-B	0-6"	8270	12/08/1994	Sediment	2	U		2

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
2,4-DINITROPHENOL	SVOC	Cooling Pond	94575243SD	SD-C	0-6"	8270	12/08/1994	Sediment	24	U		24
2,4-DINITROPHENOL	SVOC	Cooling Pond	94575244SD	SD-D	0-6"	8270	12/08/1994	Sediment	2	U		2
2,4-DINITROPHENOL	SVOC	Cooling Pond	94575245SD	SD-E	0-6"	8270	12/08/1994	Sediment	2	U		2
2,4-DINITROPHENOL	SVOC	Cooling Pond	94575246SD	SD-F	0-6"	8270	12/08/1994	Sediment	2	U		2
2,4-DINITROPHENOL	SVOC	Cooling Pond	94575247SD	SD-G	0-6"	8270	12/08/1994	Sediment	4.5	U		4.5
2,4-DINITROPHENOL	SVOC	Cooling Pond	94575248SD	SD-H	0-6"	8270	12/08/1994	Sediment	2	U		2
2,4-DINITROPHENOL	SVOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8270	09/25/1996	Sediment	0.7	U	0.7	20
2,4-DINITROPHENOL	SVOC	119 ft from DP	96575205SD	96-SD5	----	8270	09/25/1996	Sediment	0.2	U	0.2	4.6
2,4-DINITROPHENOL	SVOC	147 ft from DP	96575206SD	96-SD6	----	8270	09/25/1996	Sediment	0.07	U	0.07	2
2,4-DINITROPHENOL	SVOC	165 ft from DP	96575208SD	96-SD8	----	8270	09/25/1996	Sediment	0.07	U	0.07	2
2,4-DINITROPHENOL	SVOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8270	09/25/1996	Sediment	0.07	U	0.07	2
2,4-DINITROPHENOL	SVOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8270	09/25/1996	Sediment	0.2	U	0.2	4.2
2,4-DINITROPHENOL	SVOC	40 ft from DP	96575202SD	96-SD2	----	8270	09/25/1996	Sediment	0.2	U	0.2	4.6
2,4-DINITROPHENOL	SVOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8270	09/25/1996	Sediment	0.2	U	0.2	4.6
2,4-DINITROPHENOL	SVOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8270	09/25/1996	Sediment	0.07	U	0.07	2
2,4-DINITROPHENOL	SVOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8270	09/26/1996	Sediment	0.3	U	0.3	8
2,4-DINITROPHENOL	SVOC	Drum Accumulation Area	94575210SL	SS 8	2'	8270	10/06/1994	Soil	2	U		2
2,4-DINITROPHENOL	SVOC	Drum Accumulation Area	94575211SL	SS 7	2'	8270	10/10/1994	Soil	2	U		2
2,4-DINITROPHENOL	SVOC	Drum Accumulation Area	94575212SL	SS 6	2'	8270	10/10/1994	Soil	2	U		2
2,4-DINITROPHENOL	SVOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8270	10/10/1994	Soil	3	U		3
2,4-DINITROPHENOL	SVOC	Drum Accumulation Area	94575215SL	SS 4	2'	8270	10/10/1994	Soil	2	U		2
2,4-DINITROPHENOL	SVOC	Drum Accumulation Area	94575216SL	SS 3	2'	8270	10/10/1994	Soil	2	U		2
2,4-DINITROPHENOL	SVOC	Drum Accumulation Area	94575217SL	SS 2	2'	8270	10/10/1994	Soil	2	U		2
2,4-DINITROPHENOL	SVOC	Drum Accumulation Area	94575218SL	SS 1	2'	8270	10/10/1994	Soil	2	U		2
2,4-DINITROPHENOL	SVOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8270	11/03/1994	Soil	2	U		2
2,4-DINITROPHENOL	SVOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8270	11/03/1994	Soil	2	U		2
2,4-DINITROPHENOL	SVOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8270	11/07/1994	Soil	2	U		2
2,4-DINITROPHENOL	SVOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8270	11/09/1994	Soil	2	U		2
2,4-DINITROPHENOL	SVOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8270	11/11/1994	Soil	2	U		2
2,4-DINITROPHENOL	SVOC	965752BH01	96575225SL	AP-3785	5	8270	10/02/1996	Soil	0.07	U	0.07	0.07
2,4-DINITROPHENOL	SVOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8270	10/03/1996	Soil	0.2	U	0.2	0.2
2,4-DINITROPHENOL	SVOC	965752BH03	96575233SL	AP-3787	5	8270	10/03/1996	Soil	0.07	U	0.07	0.07
2,4-DINITROPHENOL	SVOC	965752BH04	96575238SL	AP-3788	2.5	8270	10/03/1996	Soil	0.07	U	0.07	0.07
2,4-DINITROPHENOL	SVOC	965752BH04	96575239SL-AVG	AP-3788	5	8270	10/03/1996	Soil	0.07	U	0.07	0.07
2,4-DINITROPHENOL	SVOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8270	10/06/1994	Soil	2	U		2
2,4-DINITROPHENOL	SVOC	Drum Accumulation Area	94575203SL	SS 2	6"	8270	10/06/1994	Soil	2	U		2
2,4-DINITROPHENOL	SVOC	Drum Accumulation Area	94575204SL	SS 3	6"	8270	10/06/1994	Soil	2	U		2
2,4-DINITROPHENOL	SVOC	Drum Accumulation Area	94575205SL	SS 4	6"	8270	10/06/1994	Soil	2	U		2
2,4-DINITROPHENOL	SVOC	Drum Accumulation Area	94575206SL	SS 5	6"	8270	10/06/1994	Soil	2	U		2
2,4-DINITROPHENOL	SVOC	Drum Accumulation Area	94575207SL	SS 6	6"	8270	10/06/1994	Soil	2	U		2
2,4-DINITROPHENOL	SVOC	Drum Accumulation Area	94575208SL	SS 7	6"	8270	10/06/1994	Soil	2	U		2
2,4-DINITROPHENOL	SVOC	Drum Accumulation Area	94575209SL	SS 8	6"	8270	10/06/1994	Soil	2	U		2
2,4-DINITROPHENOL	SVOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8270	11/03/1994	Soil	4	U		4
2,4-DINITROPHENOL	SVOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8270	11/03/1994	Soil	4	U		4
2,4-DINITROPHENOL	SVOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8270	11/07/1994	Soil	2	U		2
2,4-DINITROPHENOL	SVOC	Cooling Pond	94575231SL	AP-3503	0-6'	8270	11/08/1994	Soil	2	U		2
2,4-DINITROPHENOL	SVOC	Cooling Pond	94575235SL	AP-3504	0-2'	8270	11/09/1994	Soil	2	U		2
2,4-DINITROPHENOL	SVOC	965752BH03	96575230SL	AP-3787	0	8270	10/03/1996	Soil	0.07	U	0.07	2
2,4-DINITROPHENOL	SVOC	965752BH04	96575236SL-AVG	AP-3788	0	8270	10/03/1996	Soil	0.07	U	0.07	2
2,4-DINITROTOLUENE	SVOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
2,4-DINITROTOLUENE	SVOC	Cooling Pond	94575242SD	SD-B	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
2,4-DINITROTOLUENE	SVOC	Cooling Pond	94575243SD	SD-C	0-6"	8270	12/08/1994	Sediment	4	U		4
2,4-DINITROTOLUENE	SVOC	Cooling Pond	94575244SD	SD-D	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
2,4-DINITROTOLUENE	SVOC	Cooling Pond	94575245SD	SD-E	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
2,4-DINITROTOLUENE	SVOC	Cooling Pond	94575246SD	SD-F	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
2,4-DINITROTOLUENE	SVOC	Cooling Pond	94575247SD	SD-G	0-6"	8270	12/08/1994	Sediment	0.8	U		0.8
2,4-DINITROTOLUENE	SVOC	Cooling Pond	94575248SD	SD-H	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
2,4-DINITROTOLUENE	SVOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8270	09/25/1996	Sediment	0.3	U	0.3	3
2,4-DINITROTOLUENE	SVOC	119 ft from DP	96575205SD	96-SD5	----	8270	09/25/1996	Sediment	0.07	U	0.07	0.7
2,4-DINITROTOLUENE	SVOC	147 ft from DP	96575206SD	96-SD6	----	8270	09/25/1996	Sediment	0.03	U	0.03	0.3
2,4-DINITROTOLUENE	SVOC	165 ft from DP	96575208SD	96-SD8	----	8270	09/25/1996	Sediment	0.03	U	0.03	0.3
2,4-DINITROTOLUENE	SVOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8270	09/25/1996	Sediment	0.03	U	0.03	0.3

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
2,4-DINITROTOLUENE	SVOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8270	09/25/1996	Sediment	0.06	U	0.06	0.7
2,4-DINITROTOLUENE	SVOC	40 ft from DP	96575202SD	96-SD2	----	8270	09/25/1996	Sediment	0.07	U	0.07	0.7
2,4-DINITROTOLUENE	SVOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8270	09/25/1996	Sediment	0.07	U	0.07	0.7
2,4-DINITROTOLUENE	SVOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8270	09/25/1996	Sediment	0.03	U	0.03	0.3
2,4-DINITROTOLUENE	SVOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8270	09/26/1996	Sediment	0.2	U	0.2	1.2
2,4-DINITROTOLUENE	SVOC	Drum Accumulation Area	94575210SL	SS 8	2'	8270	10/06/1994	Soil	0.3	U		0.3
2,4-DINITROTOLUENE	SVOC	Drum Accumulation Area	94575211SL	SS 7	2'	8270	10/10/1994	Soil	0.3	U		0.3
2,4-DINITROTOLUENE	SVOC	Drum Accumulation Area	94575212SL	SS 6	2'	8270	10/10/1994	Soil	0.3	U		0.3
2,4-DINITROTOLUENE	SVOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8270	10/10/1994	Soil	0.5	U		0.5
2,4-DINITROTOLUENE	SVOC	Drum Accumulation Area	94575215SL	SS 4	2'	8270	10/10/1994	Soil	0.3	U		0.3
2,4-DINITROTOLUENE	SVOC	Drum Accumulation Area	94575216SL	SS 3	2'	8270	10/10/1994	Soil	0.3	U		0.3
2,4-DINITROTOLUENE	SVOC	Drum Accumulation Area	94575217SL	SS 2	2'	8270	10/10/1994	Soil	0.3	U		0.3
2,4-DINITROTOLUENE	SVOC	Drum Accumulation Area	94575218SL	SS 1	2'	8270	10/10/1994	Soil	0.3	U		0.3
2,4-DINITROTOLUENE	SVOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8270	11/03/1994	Soil	0.3	U		0.3
2,4-DINITROTOLUENE	SVOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8270	11/03/1994	Soil	0.3	U		0.3
2,4-DINITROTOLUENE	SVOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8270	11/07/1994	Soil	0.3	U		0.3
2,4-DINITROTOLUENE	SVOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8270	11/09/1994	Soil	0.3	U		0.3
2,4-DINITROTOLUENE	SVOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8270	11/11/1994	Soil	0.3	U		0.3
2,4-DINITROTOLUENE	SVOC	965752BH01	96575225SL	AP-3785	5	8270	10/02/1996	Soil	0.03	U	0.03	0.03
2,4-DINITROTOLUENE	SVOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8270	10/03/1996	Soil	0.06	U	0.06	0.06
2,4-DINITROTOLUENE	SVOC	965752BH03	96575233SL	AP-3787	5	8270	10/03/1996	Soil	0.03	U	0.03	0.03
2,4-DINITROTOLUENE	SVOC	965752BH04	96575238SL	AP-3788	2.5	8270	10/03/1996	Soil	0.03	U	0.03	0.03
2,4-DINITROTOLUENE	SVOC	965752BH04	96575239SL-AVG	AP-3788	5	8270	10/03/1996	Soil	0.03	U	0.03	0.03
2,4-DINITROTOLUENE	SVOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8270	10/06/1994	Soil	0.3	U		0.3
2,4-DINITROTOLUENE	SVOC	Drum Accumulation Area	94575203SL	SS 2	6"	8270	10/06/1994	Soil	0.3	U		0.3
2,4-DINITROTOLUENE	SVOC	Drum Accumulation Area	94575204SL	SS 3	6"	8270	10/06/1994	Soil	0.3	U		0.3
2,4-DINITROTOLUENE	SVOC	Drum Accumulation Area	94575205SL	SS 4	6"	8270	10/06/1994	Soil	0.3	U		0.3
2,4-DINITROTOLUENE	SVOC	Drum Accumulation Area	94575206SL	SS 5	6"	8270	10/06/1994	Soil	0.3	U		0.3
2,4-DINITROTOLUENE	SVOC	Drum Accumulation Area	94575207SL	SS 6	6"	8270	10/06/1994	Soil	0.3	U		0.3
2,4-DINITROTOLUENE	SVOC	Drum Accumulation Area	94575208SL	SS 7	6"	8270	10/06/1994	Soil	0.3	U		0.3
2,4-DINITROTOLUENE	SVOC	Drum Accumulation Area	94575209SL	SS 8	6"	8270	10/06/1994	Soil	0.3	U		0.3
2,4-DINITROTOLUENE	SVOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8270	11/03/1994	Soil	0.6	U		0.6
2,4-DINITROTOLUENE	SVOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8270	11/03/1994	Soil	0.6	U		0.6
2,4-DINITROTOLUENE	SVOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8270	11/07/1994	Soil	0.3	U		0.3
2,4-DINITROTOLUENE	SVOC	Cooling Pond	94575231SL	AP-3503	0-6'	8270	11/08/1994	Soil	0.3	U		0.3
2,4-DINITROTOLUENE	SVOC	Cooling Pond	94575235SL	AP-3504	0-2'	8270	11/09/1994	Soil	0.3	U		0.3
2,4-DINITROTOLUENE	SVOC	965752BH03	96575230SL	AP-3787	0	8270	10/03/1996	Soil	0.03	U	0.03	0.3
2,4-DINITROTOLUENE	SVOC	965752BH04	96575236SL-AVG	AP-3788	0	8270	10/03/1996	Soil	0.03	U	0.03	0.3
2,6-DINITROTOLUENE	SVOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
2,6-DINITROTOLUENE	SVOC	Cooling Pond	94575242SD	SD-B	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
2,6-DINITROTOLUENE	SVOC	Cooling Pond	94575243SD	SD-C	0-6"	8270	12/08/1994	Sediment	4	U		4
2,6-DINITROTOLUENE	SVOC	Cooling Pond	94575244SD	SD-D	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
2,6-DINITROTOLUENE	SVOC	Cooling Pond	94575245SD	SD-E	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
2,6-DINITROTOLUENE	SVOC	Cooling Pond	94575246SD	SD-F	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
2,6-DINITROTOLUENE	SVOC	Cooling Pond	94575247SD	SD-G	0-6"	8270	12/08/1994	Sediment	0.8	U		0.8
2,6-DINITROTOLUENE	SVOC	Cooling Pond	94575248SD	SD-H	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
2,6-DINITROTOLUENE	SVOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8270	09/25/1996	Sediment	0.4	U	0.4	3
2,6-DINITROTOLUENE	SVOC	119 ft from DP	96575205SD	96-SD5	----	8270	09/25/1996	Sediment	0.09	U	0.09	0.7
2,6-DINITROTOLUENE	SVOC	147 ft from DP	96575206SD	96-SD6	----	8270	09/25/1996	Sediment	0.04	U	0.04	0.3
2,6-DINITROTOLUENE	SVOC	165 ft from DP	96575208SD	96-SD8	----	8270	09/25/1996	Sediment	0.04	U	0.04	0.3
2,6-DINITROTOLUENE	SVOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8270	09/25/1996	Sediment	0.04	U	0.04	0.3
2,6-DINITROTOLUENE	SVOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8270	09/25/1996	Sediment	0.08	U	0.08	0.7
2,6-DINITROTOLUENE	SVOC	40 ft from DP	96575202SD	96-SD2	----	8270	09/25/1996	Sediment	0.09	U	0.09	0.7
2,6-DINITROTOLUENE	SVOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8270	09/25/1996	Sediment	0.09	U	0.09	0.7
2,6-DINITROTOLUENE	SVOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8270	09/25/1996	Sediment	0.04	U	0.04	0.3
2,6-DINITROTOLUENE	SVOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8270	09/26/1996	Sediment	0.2	U	0.2	1.2
2,6-DINITROTOLUENE	SVOC	Drum Accumulation Area	94575210SL	SS 8	2'	8270	10/06/1994	Soil	0.3	U		0.3
2,6-DINITROTOLUENE	SVOC	Drum Accumulation Area	94575211SL	SS 7	2'	8270	10/10/1994	Soil	0.3	U		0.3
2,6-DINITROTOLUENE	SVOC	Drum Accumulation Area	94575212SL	SS 6	2'	8270	10/10/1994	Soil	0.3	U		0.3
2,6-DINITROTOLUENE	SVOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8270	10/10/1994	Soil	0.5	U		0.5
2,6-DINITROTOLUENE	SVOC	Drum Accumulation Area	94575215SL	SS 4	2'	8270	10/10/1994	Soil	0.3	U		0.3
2,6-DINITROTOLUENE	SVOC	Drum Accumulation Area	94575216SL	SS 3	2'	8270	10/10/1994	Soil	0.3	U		0.3

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
2,6-DINITROTOLUENE	SVOC	Drum Accumulation Area	94575217SL	SS 2	2'	8270	10/10/1994	Soil	0.3	U		0.3
2,6-DINITROTOLUENE	SVOC	Drum Accumulation Area	94575218SL	SS 1	2'	8270	10/10/1994	Soil	0.3	U		0.3
2,6-DINITROTOLUENE	SVOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8270	11/03/1994	Soil	0.3	U		0.3
2,6-DINITROTOLUENE	SVOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8270	11/03/1994	Soil	0.3	U		0.3
2,6-DINITROTOLUENE	SVOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8270	11/07/1994	Soil	0.3	U		0.3
2,6-DINITROTOLUENE	SVOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8270	11/09/1994	Soil	0.3	U		0.3
2,6-DINITROTOLUENE	SVOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8270	11/11/1994	Soil	0.3	U		0.3
2,6-DINITROTOLUENE	SVOC	965752BH01	96575225SL	AP-3785	5	8270	10/02/1996	Soil	0.04	U	0.04	0.04
2,6-DINITROTOLUENE	SVOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8270	10/03/1996	Soil	0.08	U	0.08	0.08
2,6-DINITROTOLUENE	SVOC	965752BH03	96575233SL	AP-3787	5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
2,6-DINITROTOLUENE	SVOC	965752BH04	96575238SL	AP-3788	2.5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
2,6-DINITROTOLUENE	SVOC	965752BH04	96575239SL-AVG	AP-3788	5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
2,6-DINITROTOLUENE	SVOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8270	10/06/1994	Soil	0.3	U		0.3
2,6-DINITROTOLUENE	SVOC	Drum Accumulation Area	94575203SL	SS 2	6"	8270	10/06/1994	Soil	0.3	U		0.3
2,6-DINITROTOLUENE	SVOC	Drum Accumulation Area	94575204SL	SS 3	6"	8270	10/06/1994	Soil	0.3	U		0.3
2,6-DINITROTOLUENE	SVOC	Drum Accumulation Area	94575205SL	SS 4	6"	8270	10/06/1994	Soil	0.3	U		0.3
2,6-DINITROTOLUENE	SVOC	Drum Accumulation Area	94575206SL	SS 5	6"	8270	10/06/1994	Soil	0.3	U		0.3
2,6-DINITROTOLUENE	SVOC	Drum Accumulation Area	94575207SL	SS 6	6"	8270	10/06/1994	Soil	0.3	U		0.3
2,6-DINITROTOLUENE	SVOC	Drum Accumulation Area	94575208SL	SS 7	6"	8270	10/06/1994	Soil	0.3	U		0.3
2,6-DINITROTOLUENE	SVOC	Drum Accumulation Area	94575209SL	SS 8	6"	8270	10/06/1994	Soil	0.3	U		0.3
2,6-DINITROTOLUENE	SVOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8270	11/03/1994	Soil	0.6	U		0.6
2,6-DINITROTOLUENE	SVOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8270	11/03/1994	Soil	0.6	U		0.6
2,6-DINITROTOLUENE	SVOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8270	11/07/1994	Soil	0.3	U		0.3
2,6-DINITROTOLUENE	SVOC	Cooling Pond	94575231SL	AP-3503	0-6'	8270	11/08/1994	Soil	0.3	U		0.3
2,6-DINITROTOLUENE	SVOC	Cooling Pond	94575235SL	AP-3504	0-2'	8270	11/09/1994	Soil	0.3	U		0.3
2,6-DINITROTOLUENE	SVOC	965752BH03	96575230SL	AP-3787	0	8270	10/03/1996	Soil	0.04	U	0.04	0.3
2,6-DINITROTOLUENE	SVOC	965752BH04	96575236SL-AVG	AP-3788	0	8270	10/03/1996	Soil	0.04	U	0.04	0.3
2-CHLORONAPHTHALENE	SVOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
2-CHLORONAPHTHALENE	SVOC	Cooling Pond	94575242SD	SD-B	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
2-CHLORONAPHTHALENE	SVOC	Cooling Pond	94575243SD	SD-C	0-6"	8270	12/08/1994	Sediment	4	U		4
2-CHLORONAPHTHALENE	SVOC	Cooling Pond	94575244SD	SD-D	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
2-CHLORONAPHTHALENE	SVOC	Cooling Pond	94575245SD	SD-E	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
2-CHLORONAPHTHALENE	SVOC	Cooling Pond	94575246SD	SD-F	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
2-CHLORONAPHTHALENE	SVOC	Cooling Pond	94575247SD	SD-G	0-6"	8270	12/08/1994	Sediment	0.8	U		0.8
2-CHLORONAPHTHALENE	SVOC	Cooling Pond	94575248SD	SD-H	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
2-CHLORONAPHTHALENE	SVOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8270	09/25/1996	Sediment	0.5	U	0.5	3
2-CHLORONAPHTHALENE	SVOC	119 ft from DP	96575205SD	96-SD5	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7
2-CHLORONAPHTHALENE	SVOC	147 ft from DP	96575206SD	96-SD6	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
2-CHLORONAPHTHALENE	SVOC	165 ft from DP	96575208SD	96-SD8	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
2-CHLORONAPHTHALENE	SVOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
2-CHLORONAPHTHALENE	SVOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8270	09/25/1996	Sediment	0.1	U	0.1	0.7
2-CHLORONAPHTHALENE	SVOC	40 ft from DP	96575202SD	96-SD2	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7
2-CHLORONAPHTHALENE	SVOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7
2-CHLORONAPHTHALENE	SVOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
2-CHLORONAPHTHALENE	SVOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8270	09/26/1996	Sediment	0.2	U	0.2	1.2
2-CHLORONAPHTHALENE	SVOC	Drum Accumulation Area	94575210SL	SS 8	2'	8270	10/06/1994	Soil	0.3	U		0.3
2-CHLORONAPHTHALENE	SVOC	Drum Accumulation Area	94575211SL	SS 7	2'	8270	10/10/1994	Soil	0.3	U		0.3
2-CHLORONAPHTHALENE	SVOC	Drum Accumulation Area	94575212SL	SS 6	2'	8270	10/10/1994	Soil	0.3	U		0.3
2-CHLORONAPHTHALENE	SVOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8270	10/10/1994	Soil	0.5	U		0.5
2-CHLORONAPHTHALENE	SVOC	Drum Accumulation Area	94575215SL	SS 4	2'	8270	10/10/1994	Soil	0.3	U		0.3
2-CHLORONAPHTHALENE	SVOC	Drum Accumulation Area	94575216SL	SS 3	2'	8270	10/10/1994	Soil	0.3	U		0.3
2-CHLORONAPHTHALENE	SVOC	Drum Accumulation Area	94575217SL	SS 2	2'	8270	10/10/1994	Soil	0.3	U		0.3
2-CHLORONAPHTHALENE	SVOC	Drum Accumulation Area	94575218SL	SS 1	2'	8270	10/10/1994	Soil	0.3	U		0.3
2-CHLORONAPHTHALENE	SVOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8270	11/03/1994	Soil	0.3	U		0.3
2-CHLORONAPHTHALENE	SVOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8270	11/03/1994	Soil	0.3	U		0.3
2-CHLORONAPHTHALENE	SVOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8270	11/07/1994	Soil	0.3	U		0.3
2-CHLORONAPHTHALENE	SVOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8270	11/09/1994	Soil	0.3	U		0.3
2-CHLORONAPHTHALENE	SVOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8270	11/11/1994	Soil	0.3	U		0.3
2-CHLORONAPHTHALENE	SVOC	965752BH01	96575225SL	AP-3785	5	8270	10/02/1996	Soil	0.05	U	0.05	0.05
2-CHLORONAPHTHALENE	SVOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8270	10/03/1996	Soil	0.1	U	0.1	0.1
2-CHLORONAPHTHALENE	SVOC	965752BH03	96575233SL	AP-3787	5	8270	10/03/1996	Soil	0.05	U	0.05	0.05
2-CHLORONAPHTHALENE	SVOC	965752BH04	96575238SL	AP-3788	2.5	8270	10/03/1996	Soil	0.05	U	0.05	0.05

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
2-CHLORONAPHTHALENE	SVOC	965752BH04	96575239SL-AVG	AP-3788	5	8270	10/03/1996	Soil	0.05	U	0.05	0.05
2-CHLORONAPHTHALENE	SVOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8270	10/06/1994	Soil	0.3	U		0.3
2-CHLORONAPHTHALENE	SVOC	Drum Accumulation Area	94575203SL	SS 2	6"	8270	10/06/1994	Soil	0.3	U		0.3
2-CHLORONAPHTHALENE	SVOC	Drum Accumulation Area	94575204SL	SS 3	6"	8270	10/06/1994	Soil	0.3	U		0.3
2-CHLORONAPHTHALENE	SVOC	Drum Accumulation Area	94575205SL	SS 4	6"	8270	10/06/1994	Soil	0.3	U		0.3
2-CHLORONAPHTHALENE	SVOC	Drum Accumulation Area	94575206SL	SS 5	6"	8270	10/06/1994	Soil	0.3	U		0.3
2-CHLORONAPHTHALENE	SVOC	Drum Accumulation Area	94575207SL	SS 6	6"	8270	10/06/1994	Soil	0.3	U		0.3
2-CHLORONAPHTHALENE	SVOC	Drum Accumulation Area	94575208SL	SS 7	6"	8270	10/06/1994	Soil	0.3	U		0.3
2-CHLORONAPHTHALENE	SVOC	Drum Accumulation Area	94575209SL	SS 8	6"	8270	10/06/1994	Soil	0.3	U		0.3
2-CHLORONAPHTHALENE	SVOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8270	11/03/1994	Soil	0.6	U		0.6
2-CHLORONAPHTHALENE	SVOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8270	11/03/1994	Soil	0.6	U		0.6
2-CHLORONAPHTHALENE	SVOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8270	11/07/1994	Soil	0.3	U		0.3
2-CHLORONAPHTHALENE	SVOC	Cooling Pond	94575231SL	AP-3503	0-6'	8270	11/08/1994	Soil	0.3	U		0.3
2-CHLORONAPHTHALENE	SVOC	Cooling Pond	94575235SL	AP-3504	0-2'	8270	11/09/1994	Soil	0.3	U		0.3
2-CHLORONAPHTHALENE	SVOC	965752BH03	96575230SL	AP-3787	0	8270	10/03/1996	Soil	0.05	U	0.05	0.3
2-CHLORONAPHTHALENE	SVOC	965752BH04	96575236SL-AVG	AP-3788	0	8270	10/03/1996	Soil	0.05	U	0.05	0.3
2-CHLOROPHENOL	SVOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
2-CHLOROPHENOL	SVOC	Cooling Pond	94575242SD	SD-B	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
2-CHLOROPHENOL	SVOC	Cooling Pond	94575243SD	SD-C	0-6"	8270	12/08/1994	Sediment	4	U		4
2-CHLOROPHENOL	SVOC	Cooling Pond	94575244SD	SD-D	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
2-CHLOROPHENOL	SVOC	Cooling Pond	94575245SD	SD-E	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
2-CHLOROPHENOL	SVOC	Cooling Pond	94575246SD	SD-F	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
2-CHLOROPHENOL	SVOC	Cooling Pond	94575247SD	SD-G	0-6"	8270	12/08/1994	Sediment	0.8	U		0.8
2-CHLOROPHENOL	SVOC	Cooling Pond	94575248SD	SD-H	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
2-CHLOROPHENOL	SVOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8270	09/25/1996	Sediment	0.5	U	0.5	3
2-CHLOROPHENOL	SVOC	119 ft from DP	96575205SD	96-SD5	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7
2-CHLOROPHENOL	SVOC	147 ft from DP	96575206SD	96-SD6	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
2-CHLOROPHENOL	SVOC	165 ft from DP	96575208SD	96-SD8	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
2-CHLOROPHENOL	SVOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
2-CHLOROPHENOL	SVOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8270	09/25/1996	Sediment	0.1	U	0.1	0.7
2-CHLOROPHENOL	SVOC	40 ft from DP	96575202SD	96-SD2	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7
2-CHLOROPHENOL	SVOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7
2-CHLOROPHENOL	SVOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
2-CHLOROPHENOL	SVOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8270	09/26/1996	Sediment	0.2	U	0.2	1.2
2-CHLOROPHENOL	SVOC	Drum Accumulation Area	94575210SL	SS 8	2'	8270	10/06/1994	Soil	0.3	U		0.3
2-CHLOROPHENOL	SVOC	Drum Accumulation Area	94575211SL	SS 7	2'	8270	10/10/1994	Soil	0.3	U		0.3
2-CHLOROPHENOL	SVOC	Drum Accumulation Area	94575212SL	SS 6	2'	8270	10/10/1994	Soil	0.3	U		0.3
2-CHLOROPHENOL	SVOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8270	10/10/1994	Soil	0.5	U		0.5
2-CHLOROPHENOL	SVOC	Drum Accumulation Area	94575215SL	SS 4	2'	8270	10/10/1994	Soil	0.3	U		0.3
2-CHLOROPHENOL	SVOC	Drum Accumulation Area	94575216SL	SS 3	2'	8270	10/10/1994	Soil	0.3	U		0.3
2-CHLOROPHENOL	SVOC	Drum Accumulation Area	94575217SL	SS 2	2'	8270	10/10/1994	Soil	0.3	U		0.3
2-CHLOROPHENOL	SVOC	Drum Accumulation Area	94575218SL	SS 1	2'	8270	10/10/1994	Soil	0.3	U		0.3
2-CHLOROPHENOL	SVOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8270	11/03/1994	Soil	0.3	U		0.3
2-CHLOROPHENOL	SVOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8270	11/03/1994	Soil	0.3	U		0.3
2-CHLOROPHENOL	SVOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8270	11/07/1994	Soil	0.3	U		0.3
2-CHLOROPHENOL	SVOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8270	11/09/1994	Soil	0.3	U		0.3
2-CHLOROPHENOL	SVOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8270	11/11/1994	Soil	0.3	U		0.3
2-CHLOROPHENOL	SVOC	965752BH01	96575225SL	AP-3785	5	8270	10/02/1996	Soil	0.05	U	0.05	0.05
2-CHLOROPHENOL	SVOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8270	10/03/1996	Soil	0.1	U	0.1	0.1
2-CHLOROPHENOL	SVOC	965752BH03	96575233SL	AP-3787	5	8270	10/03/1996	Soil	0.05	U	0.05	0.05
2-CHLOROPHENOL	SVOC	965752BH04	96575238SL	AP-3788	2.5	8270	10/03/1996	Soil	0.05	U	0.05	0.05
2-CHLOROPHENOL	SVOC	965752BH04	96575239SL-AVG	AP-3788	5	8270	10/03/1996	Soil	0.05	U	0.05	0.05
2-CHLOROPHENOL	SVOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8270	10/06/1994	Soil	0.3	U		0.3
2-CHLOROPHENOL	SVOC	Drum Accumulation Area	94575203SL	SS 2	6"	8270	10/06/1994	Soil	0.3	U		0.3
2-CHLOROPHENOL	SVOC	Drum Accumulation Area	94575204SL	SS 3	6"	8270	10/06/1994	Soil	0.3	U		0.3
2-CHLOROPHENOL	SVOC	Drum Accumulation Area	94575205SL	SS 4	6"	8270	10/06/1994	Soil	0.3	U		0.3
2-CHLOROPHENOL	SVOC	Drum Accumulation Area	94575206SL	SS 5	6"	8270	10/06/1994	Soil	0.3	U		0.3
2-CHLOROPHENOL	SVOC	Drum Accumulation Area	94575207SL	SS 6	6"	8270	10/06/1994	Soil	0.3	U		0.3
2-CHLOROPHENOL	SVOC	Drum Accumulation Area	94575208SL	SS 7	6"	8270	10/06/1994	Soil	0.3	U		0.3
2-CHLOROPHENOL	SVOC	Drum Accumulation Area	94575209SL	SS 8	6"	8270	10/06/1994	Soil	0.3	U		0.3
2-CHLOROPHENOL	SVOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8270	11/03/1994	Soil	0.6	U		0.6
2-CHLOROPHENOL	SVOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8270	11/03/1994	Soil	0.6	U		0.6

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
2-CHLOROPHENOL	SVOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8270	11/07/1994	Soil	0.3	U		0.3
2-CHLOROPHENOL	SVOC	Cooling Pond	94575231SL	AP-3503	0-6'	8270	11/08/1994	Soil	0.3	U		0.3
2-CHLOROPHENOL	SVOC	Cooling Pond	94575235SL	AP-3504	0-2'	8270	11/09/1994	Soil	0.3	U		0.3
2-CHLOROPHENOL	SVOC	965752BH03	96575230SL	AP-3787	0	8270	10/03/1996	Soil	0.05	U	0.05	0.3
2-CHLOROPHENOL	SVOC	965752BH04	96575236SL-AVG	AP-3788	0	8270	10/03/1996	Soil	0.05	U	0.05	0.3
2-CHLOROTOLUENE	VOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
2-CHLOROTOLUENE	VOC	Cooling Pond	94575242SD	SD-B	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
2-CHLOROTOLUENE	VOC	Cooling Pond	94575243SD	SD-C	0-6"	8260	12/08/1994	Sediment	0.04	U		0.04
2-CHLOROTOLUENE	VOC	Cooling Pond	94575244SD	SD-D	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
2-CHLOROTOLUENE	VOC	Cooling Pond	94575245SD	SD-E	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
2-CHLOROTOLUENE	VOC	Cooling Pond	94575246SD	SD-F	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
2-CHLOROTOLUENE	VOC	Cooling Pond	94575247SD	SD-G	0-6"	8260	12/08/1994	Sediment	0.04	U		0.04
2-CHLOROTOLUENE	VOC	Cooling Pond	94575248SD	SD-H	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
2-CHLOROTOLUENE	VOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8260	09/25/1996	Sediment	0.01	J	0.002	0.04
2-CHLOROTOLUENE	VOC	119 ft from DP	96575205SD	96-SD5	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.04
2-CHLOROTOLUENE	VOC	147 ft from DP	96575206SD	96-SD6	----	8260	09/25/1996	Sediment	0.001	U	0.001	0.02
2-CHLOROTOLUENE	VOC	165 ft from DP	96575208SD	96-SD8	----	8260	09/25/1996	Sediment	0.001	U	0.001	0.02
2-CHLOROTOLUENE	VOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8260	09/25/1996	Sediment	0.001	U	0.001	0.02
2-CHLOROTOLUENE	VOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8260	09/25/1996	Sediment	0.003	U	0.003	0.06
2-CHLOROTOLUENE	VOC	40 ft from DP	96575202SD	96-SD2	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.04
2-CHLOROTOLUENE	VOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.04
2-CHLOROTOLUENE	VOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8260	09/25/1996	Sediment	0.001	U	0.001	0.02
2-CHLOROTOLUENE	VOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8260	09/26/1996	Sediment	0.007	J	0.002	0.04
2-CHLOROTOLUENE	VOC	Drum Accumulation Area	94575210SL	SS 8	2'	8260	10/06/1994	Soil	0.02	U		0.02
2-CHLOROTOLUENE	VOC	Drum Accumulation Area	94575211SL	SS 7	2'	8260	10/10/1994	Soil	0.02	U		0.02
2-CHLOROTOLUENE	VOC	Drum Accumulation Area	94575212SL	SS 6	2'	8260	10/10/1994	Soil	0.02	U		0.02
2-CHLOROTOLUENE	VOC	Drum Accumulation Area	945752213SL-AVG	SS 5	2'	8260	10/10/1994	Soil	0.02	U		0.02
2-CHLOROTOLUENE	VOC	Drum Accumulation Area	94575215SL	SS 4	2'	8260	10/10/1994	Soil	0.02	U		0.02
2-CHLOROTOLUENE	VOC	Drum Accumulation Area	94575216SL	SS 3	2'	8260	10/10/1994	Soil	0.02	U		0.02
2-CHLOROTOLUENE	VOC	Drum Accumulation Area	94575217SL	SS 2	2'	8260	10/10/1994	Soil	0.02	U		0.02
2-CHLOROTOLUENE	VOC	Drum Accumulation Area	94575218SL	SS 1	2'	8260	10/10/1994	Soil	0.02	U		0.02
2-CHLOROTOLUENE	VOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8260	11/03/1994	Soil	0.02	U		0.02
2-CHLOROTOLUENE	VOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8260	11/03/1994	Soil	0.02	U		0.02
2-CHLOROTOLUENE	VOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8260	11/07/1994	Soil	0.02	U		0.02
2-CHLOROTOLUENE	VOC	Cooling Pond	945752236SL-AVG	AP-3504	4'-10'	8260	11/09/1994	Soil	0.02	U		0.02
2-CHLOROTOLUENE	VOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8260	11/11/1994	Soil	0.02	U		0.02
2-CHLOROTOLUENE	VOC	965752BH01	96575225SL	AP-3785	5	8260	10/02/1996	Soil	0.001	U	0.001	0.001
2-CHLOROTOLUENE	VOC	965752BH03	965752231SL-AVG	AP-3787	2.5	8260	10/03/1996	Soil	0.001	U	0.001	0.001
2-CHLOROTOLUENE	VOC	965752BH04	96575238SL	AP-3788	2.5	8260	10/03/1996	Soil	0.001	U	0.001	0.001
2-CHLOROTOLUENE	VOC	965752BH04	965752239SL-AVG	AP-3788	5	8260	10/03/1996	Soil	0.001	U	0.001	0.001
2-CHLOROTOLUENE	VOC	Drum Accumulation Area	945752201SL-AVG	SS 1	6"	8260	10/06/1994	Soil	0.02	U		0.02
2-CHLOROTOLUENE	VOC	Drum Accumulation Area	94575203SL	SS 2	6"	8260	10/06/1994	Soil	0.02	U		0.02
2-CHLOROTOLUENE	VOC	Drum Accumulation Area	94575204SL	SS 3	6"	8260	10/06/1994	Soil	0.02	U		0.02
2-CHLOROTOLUENE	VOC	Drum Accumulation Area	94575205SL	SS 4	6"	8260	10/06/1994	Soil	0.02	U		0.02
2-CHLOROTOLUENE	VOC	Drum Accumulation Area	94575206SL	SS 5	6"	8260	10/06/1994	Soil	0.02	U		0.02
2-CHLOROTOLUENE	VOC	Drum Accumulation Area	94575207SL	SS 6	6"	8260	10/06/1994	Soil	0.02	U		0.02
2-CHLOROTOLUENE	VOC	Drum Accumulation Area	94575208SL	SS 7	6"	8260	10/06/1994	Soil	0.02	U		0.02
2-CHLOROTOLUENE	VOC	Drum Accumulation Area	94575209SL	SS 8	6"	8260	10/06/1994	Soil	0.02	U		0.02
2-CHLOROTOLUENE	VOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8260	11/03/1994	Soil	0.02	U		0.02
2-CHLOROTOLUENE	VOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8260	11/03/1994	Soil	0.02	U		0.02
2-CHLOROTOLUENE	VOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8260	11/07/1994	Soil	0.02	U		0.02
2-CHLOROTOLUENE	VOC	Cooling Pond	94575231SL	AP-3503	0-6'	8260	11/08/1994	Soil	0.02	U		0.02
2-CHLOROTOLUENE	VOC	Cooling Pond	94575235SL	AP-3504	0-2'	8260	11/09/1994	Soil	0.02	U		0.02
2-CHLOROTOLUENE	VOC	965752BH03	96575230SL	AP-3787	0	8260	10/03/1996	Soil	0.001	U	0.001	0.02
2-CHLOROTOLUENE	VOC	965752BH04	96575236SL-AVG	AP-3788	0	8260	10/03/1996	Soil	0.001	U	0.001	0.02
2-HEXANONE	VOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
2-HEXANONE	VOC	Cooling Pond	94575242SD	SD-B	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
2-HEXANONE	VOC	Cooling Pond	94575243SD	SD-C	0-6"	8260	12/08/1994	Sediment	0.04	U		0.04
2-HEXANONE	VOC	Cooling Pond	94575244SD	SD-D	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
2-HEXANONE	VOC	Cooling Pond	94575245SD	SD-E	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
2-HEXANONE	VOC	Cooling Pond	94575246SD	SD-F	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
2-HEXANONE	VOC	Cooling Pond	94575247SD	SD-G	0-6"	8260	12/08/1994	Sediment	0.04	U		0.04

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
2-HEXANONE	VOC	Cooling Pond	94575248SD	SD-H	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
2-HEXANONE	VOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8260	09/25/1996	Sediment	0.008	U	0.008	0.04
2-HEXANONE	VOC	119 ft from DP	96575205SD	96-SD5	----	8260	09/25/1996	Sediment	0.008	U	0.008	0.04
2-HEXANONE	VOC	147 ft from DP	96575206SD	96-SD6	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.02
2-HEXANONE	VOC	165 ft from DP	96575208SD	96-SD8	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.02
2-HEXANONE	VOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.02
2-HEXANONE	VOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8260	09/25/1996	Sediment	0.02	U	0.02	0.06
2-HEXANONE	VOC	40 ft from DP	96575202SD	96-SD2	----	8260	09/25/1996	Sediment	0.008	U	0.008	0.04
2-HEXANONE	VOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8260	09/25/1996	Sediment	0.008	U	0.008	0.04
2-HEXANONE	VOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.02
2-HEXANONE	VOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8260	09/26/1996	Sediment	0.008	U	0.008	0.04
2-HEXANONE	VOC	Drum Accumulation Area	94575210SL	SS 8	2'	8260	10/06/1994	Soil	0.02	U		0.02
2-HEXANONE	VOC	Drum Accumulation Area	94575211SL	SS 7	2'	8260	10/10/1994	Soil	0.02	U		0.02
2-HEXANONE	VOC	Drum Accumulation Area	94575212SL	SS 6	2'	8260	10/10/1994	Soil	0.02	U		0.02
2-HEXANONE	VOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8260	10/10/1994	Soil	0.02	U		0.02
2-HEXANONE	VOC	Drum Accumulation Area	94575215SL	SS 4	2'	8260	10/10/1994	Soil	0.02	U		0.02
2-HEXANONE	VOC	Drum Accumulation Area	94575216SL	SS 3	2'	8260	10/10/1994	Soil	0.02	U		0.02
2-HEXANONE	VOC	Drum Accumulation Area	94575217SL	SS 2	2'	8260	10/10/1994	Soil	0.02	U		0.02
2-HEXANONE	VOC	Drum Accumulation Area	94575218SL	SS 1	2'	8260	10/10/1994	Soil	0.02	U		0.02
2-HEXANONE	VOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8260	11/03/1994	Soil	0.02	U		0.02
2-HEXANONE	VOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8260	11/03/1994	Soil	0.02	U		0.02
2-HEXANONE	VOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8260	11/07/1994	Soil	0.02	U		0.02
2-HEXANONE	VOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8260	11/09/1994	Soil	0.02	U		0.02
2-HEXANONE	VOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8260	11/11/1994	Soil	0.02	U		0.02
2-HEXANONE	VOC	965752BH01	96575225SL	AP-3785	5	8260	10/02/1996	Soil	0.004	U	0.004	0.004
2-HEXANONE	VOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8260	10/03/1996	Soil	0.004	U	0.004	0.004
2-HEXANONE	VOC	965752BH04	96575238SL	AP-3788	2.5	8260	10/03/1996	Soil	0.004	U	0.004	0.004
2-HEXANONE	VOC	965752BH04	96575239SL-AVG	AP-3788	5	8260	10/03/1996	Soil	0.004	U	0.004	0.004
2-HEXANONE	VOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8260	10/06/1994	Soil	0.02	U		0.02
2-HEXANONE	VOC	Drum Accumulation Area	94575203SL	SS 2	6"	8260	10/06/1994	Soil	0.02	U		0.02
2-HEXANONE	VOC	Drum Accumulation Area	94575204SL	SS 3	6"	8260	10/06/1994	Soil	0.02	U		0.02
2-HEXANONE	VOC	Drum Accumulation Area	94575205SL	SS 4	6"	8260	10/06/1994	Soil	0.02	U		0.02
2-HEXANONE	VOC	Drum Accumulation Area	94575206SL	SS 5	6"	8260	10/06/1994	Soil	0.02	U		0.02
2-HEXANONE	VOC	Drum Accumulation Area	94575207SL	SS 6	6"	8260	10/06/1994	Soil	0.02	U		0.02
2-HEXANONE	VOC	Drum Accumulation Area	94575208SL	SS 7	6"	8260	10/06/1994	Soil	0.02	U		0.02
2-HEXANONE	VOC	Drum Accumulation Area	94575209SL	SS 8	6"	8260	10/06/1994	Soil	0.02	U		0.02
2-HEXANONE	VOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8260	11/03/1994	Soil	0.02	U		0.02
2-HEXANONE	VOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8260	11/03/1994	Soil	0.02	U		0.02
2-HEXANONE	VOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8260	11/07/1994	Soil	0.02	U		0.02
2-HEXANONE	VOC	Cooling Pond	94575231SL	AP-3503	0-6'	8260	11/08/1994	Soil	0.02	U		0.02
2-HEXANONE	VOC	Cooling Pond	94575235SL	AP-3504	0-2'	8260	11/09/1994	Soil	0.02	U		0.02
2-HEXANONE	VOC	965752BH03	96575230SL	AP-3787	0	8260	10/03/1996	Soil	0.004	U	0.004	0.02
2-HEXANONE	VOC	965752BH04	96575236SL-AVG	AP-3788	0	8260	10/03/1996	Soil	0.004	U	0.004	0.02
2-METHYLNAPHTHALENE	SVOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
2-METHYLNAPHTHALENE	SVOC	Cooling Pond	94575242SD	SD-B	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
2-METHYLNAPHTHALENE	SVOC	Cooling Pond	94575243SD	SD-C	0-6"	8270	12/08/1994	Sediment	4	U		4
2-METHYLNAPHTHALENE	SVOC	Cooling Pond	94575244SD	SD-D	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
2-METHYLNAPHTHALENE	SVOC	Cooling Pond	94575245SD	SD-E	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
2-METHYLNAPHTHALENE	SVOC	Cooling Pond	94575246SD	SD-F	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
2-METHYLNAPHTHALENE	SVOC	Cooling Pond	94575247SD	SD-G	0-6"	8270	12/08/1994	Sediment	0.8	U		0.8
2-METHYLNAPHTHALENE	SVOC	Cooling Pond	94575248SD	SD-H	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
2-METHYLNAPHTHALENE	SVOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8270	09/25/1996	Sediment	0.5	U	0.5	3
2-METHYLNAPHTHALENE	SVOC	119 ft from DP	96575205SD	96-SD5	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7
2-METHYLNAPHTHALENE	SVOC	147 ft from DP	96575206SD	96-SD6	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
2-METHYLNAPHTHALENE	SVOC	165 ft from DP	96575208SD	96-SD8	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
2-METHYLNAPHTHALENE	SVOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
2-METHYLNAPHTHALENE	SVOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8270	09/25/1996	Sediment	0.1	U	0.1	0.7
2-METHYLNAPHTHALENE	SVOC	40 ft from DP	96575202SD	96-SD2	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7
2-METHYLNAPHTHALENE	SVOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7
2-METHYLNAPHTHALENE	SVOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
2-METHYLNAPHTHALENE	SVOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8270	09/26/1996	Sediment	0.2	U	0.2	1.2
2-METHYLNAPHTHALENE	SVOC	Downstream end of 35-752 pond	975752007SD-AVG	96-SD007	0	SIM	10/21/1997	Sediment	0.026	=	0.0005	0.005

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
2-METHYLNAPHTHALENE	SVOC	Drum Accumulation Area	94575210SL	SS 8	2'	8270	10/06/1994	Soil	0.3	U		0.3
2-METHYLNAPHTHALENE	SVOC	Drum Accumulation Area	94575211SL	SS 7	2'	8270	10/10/1994	Soil	0.3	U		0.3
2-METHYLNAPHTHALENE	SVOC	Drum Accumulation Area	94575212SL	SS 6	2'	8270	10/10/1994	Soil	0.3	U		0.3
2-METHYLNAPHTHALENE	SVOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8270	10/10/1994	Soil	0.5	U		0.5
2-METHYLNAPHTHALENE	SVOC	Drum Accumulation Area	94575215SL	SS 4	2'	8270	10/10/1994	Soil	0.3	U		0.3
2-METHYLNAPHTHALENE	SVOC	Drum Accumulation Area	94575216SL	SS 3	2'	8270	10/10/1994	Soil	0.3	U		0.3
2-METHYLNAPHTHALENE	SVOC	Drum Accumulation Area	94575217SL	SS 2	2'	8270	10/10/1994	Soil	0.3	U		0.3
2-METHYLNAPHTHALENE	SVOC	Drum Accumulation Area	94575218SL	SS 1	2'	8270	10/10/1994	Soil	0.3	U		0.3
2-METHYLNAPHTHALENE	SVOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8270	11/03/1994	Soil	0.3	U		0.3
2-METHYLNAPHTHALENE	SVOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8270	11/03/1994	Soil	0.3	U		0.3
2-METHYLNAPHTHALENE	SVOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8270	11/07/1994	Soil	0.3	U		0.3
2-METHYLNAPHTHALENE	SVOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8270	11/09/1994	Soil	0.3	U		0.3
2-METHYLNAPHTHALENE	SVOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8270	11/11/1994	Soil	0.3	U		0.3
2-METHYLNAPHTHALENE	SVOC	965752BH01	96575225SL	AP-3785	5	8270	10/02/1996	Soil	0.05	U	0.05	0.05
2-METHYLNAPHTHALENE	SVOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8270	10/03/1996	Soil	0.1	U	0.1	0.1
2-METHYLNAPHTHALENE	SVOC	965752BH03	96575233SL	AP-3787	5	8270	10/03/1996	Soil	0.05	U	0.05	0.05
2-METHYLNAPHTHALENE	SVOC	965752BH04	96575238SL	AP-3788	2.5	8270	10/03/1996	Soil	0.05	U	0.05	0.05
2-METHYLNAPHTHALENE	SVOC	965752BH04	96575239SL-AVG	AP-3788	5	8270	10/03/1996	Soil	0.05	U	0.05	0.05
2-METHYLNAPHTHALENE	SVOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8270	10/06/1994	Soil	0.3	U		0.3
2-METHYLNAPHTHALENE	SVOC	Drum Accumulation Area	94575203SL	SS 2	6"	8270	10/06/1994	Soil	0.3	U		0.3
2-METHYLNAPHTHALENE	SVOC	Drum Accumulation Area	94575204SL	SS 3	6"	8270	10/06/1994	Soil	0.3	U		0.3
2-METHYLNAPHTHALENE	SVOC	Drum Accumulation Area	94575205SL	SS 4	6"	8270	10/06/1994	Soil	0.3	U		0.3
2-METHYLNAPHTHALENE	SVOC	Drum Accumulation Area	94575206SL	SS 5	6"	8270	10/06/1994	Soil	0.3	U		0.3
2-METHYLNAPHTHALENE	SVOC	Drum Accumulation Area	94575207SL	SS 6	6"	8270	10/06/1994	Soil	0.3	U		0.3
2-METHYLNAPHTHALENE	SVOC	Drum Accumulation Area	94575208SL	SS 7	6"	8270	10/06/1994	Soil	0.3	U		0.3
2-METHYLNAPHTHALENE	SVOC	Drum Accumulation Area	94575209SL	SS 8	6"	8270	10/06/1994	Soil	0.3	U		0.3
2-METHYLNAPHTHALENE	SVOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8270	11/03/1994	Soil	0.6	U		0.6
2-METHYLNAPHTHALENE	SVOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8270	11/03/1994	Soil	0.6	U		0.6
2-METHYLNAPHTHALENE	SVOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8270	11/07/1994	Soil	0.3	U		0.3
2-METHYLNAPHTHALENE	SVOC	Cooling Pond	94575231SL	AP-3503	0-6'	8270	11/08/1994	Soil	0.3	U		0.3
2-METHYLNAPHTHALENE	SVOC	Cooling Pond	94575235SL	AP-3504	0-2'	8270	11/09/1994	Soil	0.3	U		0.3
2-METHYLNAPHTHALENE	SVOC	965752BH03	96575230SL	AP-3787	0	8270	10/03/1996	Soil	0.05	U	0.05	0.3
2-METHYLNAPHTHALENE	SVOC	965752BH04	96575236SL-AVG	AP-3788	0	8270	10/03/1996	Soil	0.05	U	0.05	0.3
2-METHYLPHENOL (o-CRESOL)	SVOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
2-METHYLPHENOL (o-CRESOL)	SVOC	Cooling Pond	94575242SD	SD-B	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
2-METHYLPHENOL (o-CRESOL)	SVOC	Cooling Pond	94575243SD	SD-C	0-6"	8270	12/08/1994	Sediment	4	U		4
2-METHYLPHENOL (o-CRESOL)	SVOC	Cooling Pond	94575244SD	SD-D	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
2-METHYLPHENOL (o-CRESOL)	SVOC	Cooling Pond	94575245SD	SD-E	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
2-METHYLPHENOL (o-CRESOL)	SVOC	Cooling Pond	94575246SD	SD-F	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
2-METHYLPHENOL (o-CRESOL)	SVOC	Cooling Pond	94575247SD	SD-G	0-6"	8270	12/08/1994	Sediment	0.8	U		0.8
2-METHYLPHENOL (o-CRESOL)	SVOC	Cooling Pond	94575248SD	SD-H	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
2-METHYLPHENOL (o-CRESOL)	SVOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8270	09/25/1996	Sediment	0.9	U	0.9	3
2-METHYLPHENOL (o-CRESOL)	SVOC	119 ft from DP	96575205SD	96-SD5	----	8270	09/25/1996	Sediment	0.3	U	0.3	0.7
2-METHYLPHENOL (o-CRESOL)	SVOC	147 ft from DP	96575206SD	96-SD6	----	8270	09/25/1996	Sediment	0.09	U	0.09	0.3
2-METHYLPHENOL (o-CRESOL)	SVOC	165 ft from DP	96575208SD	96-SD8	----	8270	09/25/1996	Sediment	0.09	U	0.09	0.3
2-METHYLPHENOL (o-CRESOL)	SVOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8270	09/25/1996	Sediment	0.09	U	0.09	0.3
2-METHYLPHENOL (o-CRESOL)	SVOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7
2-METHYLPHENOL (o-CRESOL)	SVOC	40 ft from DP	96575202SD	96-SD2	----	8270	09/25/1996	Sediment	0.3	U	0.3	0.7
2-METHYLPHENOL (o-CRESOL)	SVOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8270	09/25/1996	Sediment	0.3	U	0.3	0.7
2-METHYLPHENOL (o-CRESOL)	SVOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8270	09/25/1996	Sediment	0.09	U	0.09	0.3
2-METHYLPHENOL (o-CRESOL)	SVOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8270	09/26/1996	Sediment	0.4	U	0.4	1.2
2-METHYLPHENOL (o-CRESOL)	SVOC	Drum Accumulation Area	94575210SL	SS 8	2'	8270	10/06/1994	Soil	0.3	U		0.3
2-METHYLPHENOL (o-CRESOL)	SVOC	Drum Accumulation Area	94575211SL	SS 7	2'	8270	10/10/1994	Soil	0.3	U		0.3
2-METHYLPHENOL (o-CRESOL)	SVOC	Drum Accumulation Area	94575212SL	SS 6	2'	8270	10/10/1994	Soil	0.3	U		0.3
2-METHYLPHENOL (o-CRESOL)	SVOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8270	10/10/1994	Soil	0.5	U		0.5
2-METHYLPHENOL (o-CRESOL)	SVOC	Drum Accumulation Area	94575215SL	SS 4	2'	8270	10/10/1994	Soil	0.3	U		0.3
2-METHYLPHENOL (o-CRESOL)	SVOC	Drum Accumulation Area	94575216SL	SS 3	2'	8270	10/10/1994	Soil	0.3	U		0.3
2-METHYLPHENOL (o-CRESOL)	SVOC	Drum Accumulation Area	94575217SL	SS 2	2'	8270	10/10/1994	Soil	0.3	U		0.3
2-METHYLPHENOL (o-CRESOL)	SVOC	Drum Accumulation Area	94575218SL	SS 1	2'	8270	10/10/1994	Soil	0.3	U		0.3
2-METHYLPHENOL (o-CRESOL)	SVOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8270	11/03/1994	Soil	0.3	U		0.3
2-METHYLPHENOL (o-CRESOL)	SVOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8270	11/03/1994	Soil	0.3	U		0.3
2-METHYLPHENOL (o-CRESOL)	SVOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8270	11/07/1994	Soil	0.3	U		0.3

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
2-METHYLPHENOL (o-CRESOL)	SVOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8270	11/09/1994	Soil	0.3	U		0.3
2-METHYLPHENOL (o-CRESOL)	SVOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8270	11/11/1994	Soil	0.3	U		0.3
2-METHYLPHENOL (o-CRESOL)	SVOC	965752BH01	96575225SL	AP-3785	5	8270	10/02/1996	Soil	0.09	U	0.09	0.09
2-METHYLPHENOL (o-CRESOL)	SVOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8270	10/03/1996	Soil	0.2	U	0.2	0.2
2-METHYLPHENOL (o-CRESOL)	SVOC	965752BH03	96575233SL	AP-3787	5	8270	10/03/1996	Soil	0.09	U	0.09	0.09
2-METHYLPHENOL (o-CRESOL)	SVOC	965752BH04	96575238SL	AP-3788	2.5	8270	10/03/1996	Soil	0.09	U	0.09	0.09
2-METHYLPHENOL (o-CRESOL)	SVOC	965752BH04	96575239SL-AVG	AP-3788	5	8270	10/03/1996	Soil	0.09	U	0.09	0.09
2-METHYLPHENOL (o-CRESOL)	SVOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8270	10/06/1994	Soil	0.3	U		0.3
2-METHYLPHENOL (o-CRESOL)	SVOC	Drum Accumulation Area	94575203SL	SS 2	6"	8270	10/06/1994	Soil	0.3	U		0.3
2-METHYLPHENOL (o-CRESOL)	SVOC	Drum Accumulation Area	94575204SL	SS 3	6"	8270	10/06/1994	Soil	0.3	U		0.3
2-METHYLPHENOL (o-CRESOL)	SVOC	Drum Accumulation Area	94575205SL	SS 4	6"	8270	10/06/1994	Soil	0.3	U		0.3
2-METHYLPHENOL (o-CRESOL)	SVOC	Drum Accumulation Area	94575206SL	SS 5	6"	8270	10/06/1994	Soil	0.3	U		0.3
2-METHYLPHENOL (o-CRESOL)	SVOC	Drum Accumulation Area	94575207SL	SS 6	6"	8270	10/06/1994	Soil	0.3	U		0.3
2-METHYLPHENOL (o-CRESOL)	SVOC	Drum Accumulation Area	94575208SL	SS 7	6"	8270	10/06/1994	Soil	0.3	U		0.3
2-METHYLPHENOL (o-CRESOL)	SVOC	Drum Accumulation Area	94575209SL	SS 8	6"	8270	10/06/1994	Soil	0.3	U		0.3
2-METHYLPHENOL (o-CRESOL)	SVOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8270	11/03/1994	Soil	0.6	U		0.6
2-METHYLPHENOL (o-CRESOL)	SVOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8270	11/03/1994	Soil	0.6	U		0.6
2-METHYLPHENOL (o-CRESOL)	SVOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8270	11/07/1994	Soil	0.3	U		0.3
2-METHYLPHENOL (o-CRESOL)	SVOC	Cooling Pond	94575231SL	AP-3503	0-6'	8270	11/08/1994	Soil	0.3	U		0.3
2-METHYLPHENOL (o-CRESOL)	SVOC	Cooling Pond	94575235SL	AP-3504	0-2'	8270	11/09/1994	Soil	0.3	U		0.3
2-METHYLPHENOL (o-CRESOL)	SVOC	965752BH03	96575230SL	AP-3787	0	8270	10/03/1996	Soil	0.09	U	0.09	0.3
2-METHYLPHENOL (o-CRESOL)	SVOC	965752BH04	96575236SL-AVG	AP-3788	0	8270	10/03/1996	Soil	0.09	U	0.09	0.3
2-NITROANILINE	SVOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8270	12/08/1994	Sediment	2	U		2
2-NITROANILINE	SVOC	Cooling Pond	94575242SD	SD-B	0-6"	8270	12/08/1994	Sediment	2	U		2
2-NITROANILINE	SVOC	Cooling Pond	94575243SD	SD-C	0-6"	8270	12/08/1994	Sediment	24	U		24
2-NITROANILINE	SVOC	Cooling Pond	94575244SD	SD-D	0-6"	8270	12/08/1994	Sediment	2	U		2
2-NITROANILINE	SVOC	Cooling Pond	94575245SD	SD-E	0-6"	8270	12/08/1994	Sediment	2	U		2
2-NITROANILINE	SVOC	Cooling Pond	94575246SD	SD-F	0-6"	8270	12/08/1994	Sediment	2	U		2
2-NITROANILINE	SVOC	Cooling Pond	94575247SD	SD-G	0-6"	8270	12/08/1994	Sediment	4.5	U		4.5
2-NITROANILINE	SVOC	Cooling Pond	94575248SD	SD-H	0-6"	8270	12/08/1994	Sediment	2	U		2
2-NITROANILINE	SVOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8270	09/25/1996	Sediment	0.4	U	0.4	20
2-NITROANILINE	SVOC	119 ft from DP	96575205SD	96-SD5	----	8270	09/25/1996	Sediment	0.09	U	0.09	4.6
2-NITROANILINE	SVOC	147 ft from DP	96575206SD	96-SD6	----	8270	09/25/1996	Sediment	0.04	U	0.04	2
2-NITROANILINE	SVOC	165 ft from DP	96575208SD	96-SD8	----	8270	09/25/1996	Sediment	0.04	U	0.04	2
2-NITROANILINE	SVOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8270	09/25/1996	Sediment	0.04	U	0.04	2
2-NITROANILINE	SVOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8270	09/25/1996	Sediment	0.08	U	0.08	4.2
2-NITROANILINE	SVOC	40 ft from DP	96575202SD	96-SD2	----	8270	09/25/1996	Sediment	0.09	U	0.09	4.6
2-NITROANILINE	SVOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8270	09/25/1996	Sediment	0.09	U	0.09	4.6
2-NITROANILINE	SVOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8270	09/25/1996	Sediment	0.04	U	0.04	2
2-NITROANILINE	SVOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8270	09/26/1996	Sediment	0.2	U	0.2	8
2-NITROANILINE	SVOC	Drum Accumulation Area	94575210SL	SS 8	2'	8270	10/06/1994	Soil	2	U		2
2-NITROANILINE	SVOC	Drum Accumulation Area	94575211SL	SS 7	2'	8270	10/10/1994	Soil	2	U		2
2-NITROANILINE	SVOC	Drum Accumulation Area	94575212SL	SS 6	2'	8270	10/10/1994	Soil	2	U		2
2-NITROANILINE	SVOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8270	10/10/1994	Soil	3	U		3
2-NITROANILINE	SVOC	Drum Accumulation Area	94575215SL	SS 4	2'	8270	10/10/1994	Soil	2	U		2
2-NITROANILINE	SVOC	Drum Accumulation Area	94575216SL	SS 3	2'	8270	10/10/1994	Soil	2	U		2
2-NITROANILINE	SVOC	Drum Accumulation Area	94575217SL	SS 2	2'	8270	10/10/1994	Soil	2	U		2
2-NITROANILINE	SVOC	Drum Accumulation Area	94575218SL	SS 1	2'	8270	10/10/1994	Soil	2	U		2
2-NITROANILINE	SVOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8270	11/03/1994	Soil	2	U		2
2-NITROANILINE	SVOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8270	11/03/1994	Soil	2	U		2
2-NITROANILINE	SVOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8270	11/07/1994	Soil	2	U		2
2-NITROANILINE	SVOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8270	11/09/1994	Soil	2	U		2
2-NITROANILINE	SVOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8270	11/11/1994	Soil	2	U		2
2-NITROANILINE	SVOC	965752BH01	96575225SL	AP-3785	5	8270	10/02/1996	Soil	0.04	U	0.04	0.04
2-NITROANILINE	SVOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8270	10/03/1996	Soil	0.08	U	0.08	0.08
2-NITROANILINE	SVOC	965752BH03	96575233SL	AP-3787	5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
2-NITROANILINE	SVOC	965752BH04	96575238SL	AP-3788	2.5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
2-NITROANILINE	SVOC	965752BH04	96575239SL-AVG	AP-3788	5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
2-NITROANILINE	SVOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8270	10/06/1994	Soil	2	U		2
2-NITROANILINE	SVOC	Drum Accumulation Area	94575203SL	SS 2	6"	8270	10/06/1994	Soil	2	U		2
2-NITROANILINE	SVOC	Drum Accumulation Area	94575204SL	SS 3	6"	8270	10/06/1994	Soil	2	U		2
2-NITROANILINE	SVOC	Drum Accumulation Area	94575205SL	SS 4	6"	8270	10/06/1994	Soil	2	U		2

TABLE A-1
Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
2-NITROANILINE	SVOC	Drum Accumulation Area	94575206SL	SS 5	6"	8270	10/06/1994	Soil	2	U		2
2-NITROANILINE	SVOC	Drum Accumulation Area	94575207SL	SS 6	6"	8270	10/06/1994	Soil	2	U		2
2-NITROANILINE	SVOC	Drum Accumulation Area	94575208SL	SS 7	6"	8270	10/06/1994	Soil	2	U		2
2-NITROANILINE	SVOC	Drum Accumulation Area	94575209SL	SS 8	6"	8270	10/06/1994	Soil	2	U		2
2-NITROANILINE	SVOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8270	11/03/1994	Soil	4	U		4
2-NITROANILINE	SVOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8270	11/03/1994	Soil	4	U		4
2-NITROANILINE	SVOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8270	11/07/1994	Soil	2	U		2
2-NITROANILINE	SVOC	Cooling Pond	94575231SL	AP-3503	0-6'	8270	11/08/1994	Soil	2	U		2
2-NITROANILINE	SVOC	Cooling Pond	94575235SL	AP-3504	0-2'	8270	11/09/1994	Soil	2	U		2
2-NITROANILINE	SVOC	965752BH03	96575230SL	AP-3787	0	8270	10/03/1996	Soil	0.04	U	0.04	2
2-NITROANILINE	SVOC	965752BH04	96575236SL-AVG	AP-3788	0	8270	10/03/1996	Soil	0.04	U	0.04	2
2-NITROPHENOL	SVOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
2-NITROPHENOL	SVOC	Cooling Pond	94575242SD	SD-B	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
2-NITROPHENOL	SVOC	Cooling Pond	94575243SD	SD-C	0-6"	8270	12/08/1994	Sediment	4	U		4
2-NITROPHENOL	SVOC	Cooling Pond	94575244SD	SD-D	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
2-NITROPHENOL	SVOC	Cooling Pond	94575245SD	SD-E	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
2-NITROPHENOL	SVOC	Cooling Pond	94575246SD	SD-F	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
2-NITROPHENOL	SVOC	Cooling Pond	94575247SD	SD-G	0-6"	8270	12/08/1994	Sediment	0.8	U		0.8
2-NITROPHENOL	SVOC	Cooling Pond	94575248SD	SD-H	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
2-NITROPHENOL	SVOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8270	09/25/1996	Sediment	0.5	U	0.5	3
2-NITROPHENOL	SVOC	119 ft from DP	96575205SD	96-SD5	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7
2-NITROPHENOL	SVOC	147 ft from DP	96575206SD	96-SD6	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
2-NITROPHENOL	SVOC	165 ft from DP	96575208SD	96-SD8	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
2-NITROPHENOL	SVOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
2-NITROPHENOL	SVOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8270	09/25/1996	Sediment	0.1	U	0.1	0.7
2-NITROPHENOL	SVOC	40 ft from DP	96575202SD	96-SD2	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7
2-NITROPHENOL	SVOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7
2-NITROPHENOL	SVOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
2-NITROPHENOL	SVOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8270	09/26/1996	Sediment	0.2	U	0.2	1.2
2-NITROPHENOL	SVOC	Drum Accumulation Area	94575210SL	SS 8	2'	8270	10/06/1994	Soil	0.3	U		0.3
2-NITROPHENOL	SVOC	Drum Accumulation Area	94575211SL	SS 7	2'	8270	10/10/1994	Soil	0.3	U		0.3
2-NITROPHENOL	SVOC	Drum Accumulation Area	94575212SL	SS 6	2'	8270	10/10/1994	Soil	0.3	U		0.3
2-NITROPHENOL	SVOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8270	10/10/1994	Soil	0.5	U		0.5
2-NITROPHENOL	SVOC	Drum Accumulation Area	94575215SL	SS 4	2'	8270	10/10/1994	Soil	0.3	U		0.3
2-NITROPHENOL	SVOC	Drum Accumulation Area	94575216SL	SS 3	2'	8270	10/10/1994	Soil	0.3	U		0.3
2-NITROPHENOL	SVOC	Drum Accumulation Area	94575217SL	SS 2	2'	8270	10/10/1994	Soil	0.3	U		0.3
2-NITROPHENOL	SVOC	Drum Accumulation Area	94575218SL	SS 1	2'	8270	10/10/1994	Soil	0.3	U		0.3
2-NITROPHENOL	SVOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8270	11/03/1994	Soil	0.3	U		0.3
2-NITROPHENOL	SVOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8270	11/03/1994	Soil	0.3	U		0.3
2-NITROPHENOL	SVOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8270	11/07/1994	Soil	0.3	U		0.3
2-NITROPHENOL	SVOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8270	11/09/1994	Soil	0.3	U		0.3
2-NITROPHENOL	SVOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8270	11/11/1994	Soil	0.3	U		0.3
2-NITROPHENOL	SVOC	965752BH01	96575225SL	AP-3785	5	8270	10/02/1996	Soil	0.05	U	0.05	0.05
2-NITROPHENOL	SVOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8270	10/03/1996	Soil	0.1	U	0.1	0.1
2-NITROPHENOL	SVOC	965752BH03	96575233SL	AP-3787	5	8270	10/03/1996	Soil	0.05	U	0.05	0.05
2-NITROPHENOL	SVOC	965752BH04	96575238SL	AP-3788	2.5	8270	10/03/1996	Soil	0.05	U	0.05	0.05
2-NITROPHENOL	SVOC	965752BH04	96575239SL-AVG	AP-3788	5	8270	10/03/1996	Soil	0.05	U	0.05	0.05
2-NITROPHENOL	SVOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8270	10/06/1994	Soil	0.3	U		0.3
2-NITROPHENOL	SVOC	Drum Accumulation Area	94575203SL	SS 2	6"	8270	10/06/1994	Soil	0.3	U		0.3
2-NITROPHENOL	SVOC	Drum Accumulation Area	94575204SL	SS 3	6"	8270	10/06/1994	Soil	0.3	U		0.3
2-NITROPHENOL	SVOC	Drum Accumulation Area	94575205SL	SS 4	6"	8270	10/06/1994	Soil	0.3	U		0.3
2-NITROPHENOL	SVOC	Drum Accumulation Area	94575206SL	SS 5	6"	8270	10/06/1994	Soil	0.3	U		0.3
2-NITROPHENOL	SVOC	Drum Accumulation Area	94575207SL	SS 6	6"	8270	10/06/1994	Soil	0.3	U		0.3
2-NITROPHENOL	SVOC	Drum Accumulation Area	94575208SL	SS 7	6"	8270	10/06/1994	Soil	0.3	U		0.3
2-NITROPHENOL	SVOC	Drum Accumulation Area	94575209SL	SS 8	6"	8270	10/06/1994	Soil	0.3	U		0.3
2-NITROPHENOL	SVOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8270	11/03/1994	Soil	0.6	U		0.6
2-NITROPHENOL	SVOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8270	11/03/1994	Soil	0.6	U		0.6
2-NITROPHENOL	SVOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8270	11/07/1994	Soil	0.3	U		0.3
2-NITROPHENOL	SVOC	Cooling Pond	94575231SL	AP-3503	0-6'	8270	11/08/1994	Soil	0.3	U		0.3
2-NITROPHENOL	SVOC	Cooling Pond	94575235SL	AP-3504	0-2'	8270	11/09/1994	Soil	0.3	U		0.3
2-NITROPHENOL	SVOC	965752BH03	96575230SL	AP-3787	0	8270	10/03/1996	Soil	0.05	U	0.05	0.3
2-NITROPHENOL	SVOC	965752BH04	96575236SL-AVG	AP-3788	0	8270	10/03/1996	Soil	0.05	U	0.05	0.3

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
3&4-METHYLPHENOL	SVOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
3&4-METHYLPHENOL	SVOC	Cooling Pond	94575242SD	SD-B	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
3&4-METHYLPHENOL	SVOC	Cooling Pond	94575243SD	SD-C	0-6"	8270	12/08/1994	Sediment	4	U		4
3&4-METHYLPHENOL	SVOC	Cooling Pond	94575244SD	SD-D	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
3&4-METHYLPHENOL	SVOC	Cooling Pond	94575245SD	SD-E	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
3&4-METHYLPHENOL	SVOC	Cooling Pond	94575246SD	SD-F	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
3&4-METHYLPHENOL	SVOC	Cooling Pond	94575247SD	SD-G	0-6"	8270	12/08/1994	Sediment	0.8	U		0.8
3&4-METHYLPHENOL	SVOC	Cooling Pond	94575248SD	SD-H	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
3&4-METHYLPHENOL	SVOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8270	09/25/1996	Sediment	0.5	U	0.5	3
3&4-METHYLPHENOL	SVOC	119 ft from DP	96575205SD	96-SD5	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7
3&4-METHYLPHENOL	SVOC	147 ft from DP	96575206SD	96-SD6	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
3&4-METHYLPHENOL	SVOC	165 ft from DP	96575208SD	96-SD8	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
3&4-METHYLPHENOL	SVOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
3&4-METHYLPHENOL	SVOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8270	09/25/1996	Sediment	0.1	U	0.1	0.7
3&4-METHYLPHENOL	SVOC	40 ft from DP	96575202SD	96-SD2	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7
3&4-METHYLPHENOL	SVOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7
3&4-METHYLPHENOL	SVOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
3&4-METHYLPHENOL	SVOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8270	09/26/1996	Sediment	0.2	U	0.2	1.2
3&4-METHYLPHENOL	SVOC	Drum Accumulation Area	94575210SL	SS 8	2'	8270	10/06/1994	Soil	0.3	U		0.3
3&4-METHYLPHENOL	SVOC	Drum Accumulation Area	94575211SL	SS 7	2'	8270	10/10/1994	Soil	0.3	U		0.3
3&4-METHYLPHENOL	SVOC	Drum Accumulation Area	94575212SL	SS 6	2'	8270	10/10/1994	Soil	0.3	U		0.3
3&4-METHYLPHENOL	SVOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8270	10/10/1994	Soil	0.5	U		0.5
3&4-METHYLPHENOL	SVOC	Drum Accumulation Area	94575215SL	SS 4	2'	8270	10/10/1994	Soil	0.3	U		0.3
3&4-METHYLPHENOL	SVOC	Drum Accumulation Area	94575216SL	SS 3	2'	8270	10/10/1994	Soil	0.3	U		0.3
3&4-METHYLPHENOL	SVOC	Drum Accumulation Area	94575217SL	SS 2	2'	8270	10/10/1994	Soil	0.3	U		0.3
3&4-METHYLPHENOL	SVOC	Drum Accumulation Area	94575218SL	SS 1	2'	8270	10/10/1994	Soil	0.3	U		0.3
3&4-METHYLPHENOL	SVOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8270	11/03/1994	Soil	0.3	U		0.3
3&4-METHYLPHENOL	SVOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8270	11/03/1994	Soil	0.3	U		0.3
3&4-METHYLPHENOL	SVOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8270	11/07/1994	Soil	0.3	U		0.3
3&4-METHYLPHENOL	SVOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8270	11/09/1994	Soil	0.3	U		0.3
3&4-METHYLPHENOL	SVOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8270	11/11/1994	Soil	0.3	U		0.3
3&4-METHYLPHENOL	SVOC	965752BH01	96575225SL	AP-3785	5	8270	10/02/1996	Soil	0.05	U	0.05	0.05
3&4-METHYLPHENOL	SVOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8270	10/03/1996	Soil	0.1	U	0.1	0.1
3&4-METHYLPHENOL	SVOC	965752BH03	96575233SL	AP-3787	5	8270	10/03/1996	Soil	0.05	U	0.05	0.05
3&4-METHYLPHENOL	SVOC	965752BH04	96575238SL	AP-3788	2.5	8270	10/03/1996	Soil	0.05	U	0.05	0.05
3&4-METHYLPHENOL	SVOC	965752BH04	96575239SL-AVG	AP-3788	5	8270	10/03/1996	Soil	0.05	U	0.05	0.05
3&4-METHYLPHENOL	SVOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8270	10/06/1994	Soil	0.3	U		0.3
3&4-METHYLPHENOL	SVOC	Drum Accumulation Area	94575203SL	SS 2	6"	8270	10/06/1994	Soil	0.3	U		0.3
3&4-METHYLPHENOL	SVOC	Drum Accumulation Area	94575204SL	SS 3	6"	8270	10/06/1994	Soil	0.3	U		0.3
3&4-METHYLPHENOL	SVOC	Drum Accumulation Area	94575205SL	SS 4	6"	8270	10/06/1994	Soil	0.3	U		0.3
3&4-METHYLPHENOL	SVOC	Drum Accumulation Area	94575206SL	SS 5	6"	8270	10/06/1994	Soil	0.3	U		0.3
3&4-METHYLPHENOL	SVOC	Drum Accumulation Area	94575207SL	SS 6	6"	8270	10/06/1994	Soil	0.3	U		0.3
3&4-METHYLPHENOL	SVOC	Drum Accumulation Area	94575208SL	SS 7	6"	8270	10/06/1994	Soil	0.3	U		0.3
3&4-METHYLPHENOL	SVOC	Drum Accumulation Area	94575209SL	SS 8	6"	8270	10/06/1994	Soil	0.3	U		0.3
3&4-METHYLPHENOL	SVOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8270	11/03/1994	Soil	0.6	U		0.6
3&4-METHYLPHENOL	SVOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8270	11/03/1994	Soil	0.6	U		0.6
3&4-METHYLPHENOL	SVOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8270	11/07/1994	Soil	0.3	U		0.3
3&4-METHYLPHENOL	SVOC	Cooling Pond	94575231SL	AP-3503	0-6'	8270	11/08/1994	Soil	0.3	U		0.3
3&4-METHYLPHENOL	SVOC	Cooling Pond	94575235SL	AP-3504	0-2'	8270	11/09/1994	Soil	0.3	U		0.3
3&4-METHYLPHENOL	SVOC	965752BH03	96575230SL	AP-3787	0	8270	10/03/1996	Soil	0.05	U	0.05	0.3
3&4-METHYLPHENOL	SVOC	965752BH04	96575236SL-AVG	AP-3788	0	8270	10/03/1996	Soil	0.05	U	0.05	0.3
3,3'-DICHLOROBENZIDINE	SVOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8270	12/08/1994	Sediment	2	U		2
3,3'-DICHLOROBENZIDINE	SVOC	Cooling Pond	94575242SD	SD-B	0-6"	8270	12/08/1994	Sediment	2	U		2
3,3'-DICHLOROBENZIDINE	SVOC	Cooling Pond	94575243SD	SD-C	0-6"	8270	12/08/1994	Sediment	24	U		24
3,3'-DICHLOROBENZIDINE	SVOC	Cooling Pond	94575244SD	SD-D	0-6"	8270	12/08/1994	Sediment	2	U		2
3,3'-DICHLOROBENZIDINE	SVOC	Cooling Pond	94575245SD	SD-E	0-6"	8270	12/08/1994	Sediment	2	U		2
3,3'-DICHLOROBENZIDINE	SVOC	Cooling Pond	94575246SD	SD-F	0-6"	8270	12/08/1994	Sediment	2	U		2
3,3'-DICHLOROBENZIDINE	SVOC	Cooling Pond	94575247SD	SD-G	0-6"	8270	12/08/1994	Sediment	4.5	U		4.5
3,3'-DICHLOROBENZIDINE	SVOC	Cooling Pond	94575248SD	SD-H	0-6"	8270	12/08/1994	Sediment	2	U		2
3,3'-DICHLOROBENZIDINE	SVOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8270	09/25/1996	Sediment	0.4	U	0.4	20
3,3'-DICHLOROBENZIDINE	SVOC	119 ft from DP	96575205SD	96-SD5	----	8270	09/25/1996	Sediment	0.09	U	0.09	4.6
3,3'-DICHLOROBENZIDINE	SVOC	147 ft from DP	96575206SD	96-SD6	----	8270	09/25/1996	Sediment	0.04	U	0.04	2

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
3,3'-DICHLOROBENZIDINE	SVOC	165 ft from DP	96575208SD	96-SD8	----	8270	09/25/1996	Sediment	0.04	U	0.04	2
3,3'-DICHLOROBENZIDINE	SVOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8270	09/25/1996	Sediment	0.04	U	0.04	2
3,3'-DICHLOROBENZIDINE	SVOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8270	09/25/1996	Sediment	0.08	U	0.08	4.2
3,3'-DICHLOROBENZIDINE	SVOC	40 ft from DP	96575202SD	96-SD2	----	8270	09/25/1996	Sediment	0.09	U	0.09	4.6
3,3'-DICHLOROBENZIDINE	SVOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8270	09/25/1996	Sediment	0.09	U	0.09	4.6
3,3'-DICHLOROBENZIDINE	SVOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8270	09/25/1996	Sediment	0.04	U	0.04	2
3,3'-DICHLOROBENZIDINE	SVOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8270	09/26/1996	Sediment	0.2	U	0.2	8
3,3'-DICHLOROBENZIDINE	SVOC	Drum Accumulation Area	94575210SL	SS 8	2'	8270	10/06/1994	Soil	2	U		2
3,3'-DICHLOROBENZIDINE	SVOC	Drum Accumulation Area	94575211SL	SS 7	2'	8270	10/10/1994	Soil	2	U		2
3,3'-DICHLOROBENZIDINE	SVOC	Drum Accumulation Area	94575212SL	SS 6	2'	8270	10/10/1994	Soil	2	U		2
3,3'-DICHLOROBENZIDINE	SVOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8270	10/10/1994	Soil	3	U		3
3,3'-DICHLOROBENZIDINE	SVOC	Drum Accumulation Area	94575215SL	SS 4	2'	8270	10/10/1994	Soil	2	U		2
3,3'-DICHLOROBENZIDINE	SVOC	Drum Accumulation Area	94575216SL	SS 3	2'	8270	10/10/1994	Soil	2	U		2
3,3'-DICHLOROBENZIDINE	SVOC	Drum Accumulation Area	94575217SL	SS 2	2'	8270	10/10/1994	Soil	2	U		2
3,3'-DICHLOROBENZIDINE	SVOC	Drum Accumulation Area	94575218SL	SS 1	2'	8270	10/10/1994	Soil	2	U		2
3,3'-DICHLOROBENZIDINE	SVOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8270	11/03/1994	Soil	2	U		2
3,3'-DICHLOROBENZIDINE	SVOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8270	11/03/1994	Soil	2	U		2
3,3'-DICHLOROBENZIDINE	SVOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8270	11/07/1994	Soil	2	U		2
3,3'-DICHLOROBENZIDINE	SVOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8270	11/09/1994	Soil	2	U		2
3,3'-DICHLOROBENZIDINE	SVOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8270	11/11/1994	Soil	2	U		2
3,3'-DICHLOROBENZIDINE	SVOC	965752BH01	96575225SL	AP-3785	5	8270	10/02/1996	Soil	0.04	U	0.04	0.04
3,3'-DICHLOROBENZIDINE	SVOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8270	10/03/1996	Soil	0.08	U	0.08	0.08
3,3'-DICHLOROBENZIDINE	SVOC	965752BH03	96575233SL	AP-3787	5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
3,3'-DICHLOROBENZIDINE	SVOC	965752BH04	96575238SL	AP-3788	2.5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
3,3'-DICHLOROBENZIDINE	SVOC	965752BH04	96575239SL-AVG	AP-3788	5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
3,3'-DICHLOROBENZIDINE	SVOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8270	10/06/1994	Soil	2	U		2
3,3'-DICHLOROBENZIDINE	SVOC	Drum Accumulation Area	94575203SL	SS 2	6"	8270	10/06/1994	Soil	2	U		2
3,3'-DICHLOROBENZIDINE	SVOC	Drum Accumulation Area	94575204SL	SS 3	6"	8270	10/06/1994	Soil	2	U		2
3,3'-DICHLOROBENZIDINE	SVOC	Drum Accumulation Area	94575205SL	SS 4	6"	8270	10/06/1994	Soil	2	U		2
3,3'-DICHLOROBENZIDINE	SVOC	Drum Accumulation Area	94575206SL	SS 5	6"	8270	10/06/1994	Soil	2	U		2
3,3'-DICHLOROBENZIDINE	SVOC	Drum Accumulation Area	94575207SL	SS 6	6"	8270	10/06/1994	Soil	2	U		2
3,3'-DICHLOROBENZIDINE	SVOC	Drum Accumulation Area	94575208SL	SS 7	6"	8270	10/06/1994	Soil	2	U		2
3,3'-DICHLOROBENZIDINE	SVOC	Drum Accumulation Area	94575209SL	SS 8	6"	8270	10/06/1994	Soil	2	U		2
3,3'-DICHLOROBENZIDINE	SVOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8270	11/03/1994	Soil	4	U		4
3,3'-DICHLOROBENZIDINE	SVOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8270	11/03/1994	Soil	4	U		4
3,3'-DICHLOROBENZIDINE	SVOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8270	11/07/1994	Soil	2	U		2
3,3'-DICHLOROBENZIDINE	SVOC	Cooling Pond	94575231SL	AP-3503	0-6'	8270	11/08/1994	Soil	2	U		2
3,3'-DICHLOROBENZIDINE	SVOC	Cooling Pond	94575235SL	AP-3504	0-2'	8270	11/09/1994	Soil	2	U		2
3,3'-DICHLOROBENZIDINE	SVOC	965752BH03	96575230SL	AP-3787	0	8270	10/03/1996	Soil	0.04	U	0.04	2
3,3'-DICHLOROBENZIDINE	SVOC	965752BH04	96575236SL-AVG	AP-3788	0	8270	10/03/1996	Soil	0.04	U	0.04	2
3-NITROANILINE	SVOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8270	12/08/1994	Sediment	2	U		2
3-NITROANILINE	SVOC	Cooling Pond	94575242SD	SD-B	0-6"	8270	12/08/1994	Sediment	2	U		2
3-NITROANILINE	SVOC	Cooling Pond	94575243SD	SD-C	0-6"	8270	12/08/1994	Sediment	24	U		24
3-NITROANILINE	SVOC	Cooling Pond	94575244SD	SD-D	0-6"	8270	12/08/1994	Sediment	2	U		2
3-NITROANILINE	SVOC	Cooling Pond	94575245SD	SD-E	0-6"	8270	12/08/1994	Sediment	2	U		2
3-NITROANILINE	SVOC	Cooling Pond	94575246SD	SD-F	0-6"	8270	12/08/1994	Sediment	2	U		2
3-NITROANILINE	SVOC	Cooling Pond	94575247SD	SD-G	0-6"	8270	12/08/1994	Sediment	4.5	U		4.5
3-NITROANILINE	SVOC	Cooling Pond	94575248SD	SD-H	0-6"	8270	12/08/1994	Sediment	2	U		2
3-NITROANILINE	SVOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8270	09/25/1996	Sediment	0.4	U	0.4	20
3-NITROANILINE	SVOC	119 ft from DP	96575205SD	96-SD5	----	8270	09/25/1996	Sediment	0.09	U	0.09	4.6
3-NITROANILINE	SVOC	147 ft from DP	96575206SD	96-SD6	----	8270	09/25/1996	Sediment	0.04	U	0.04	2
3-NITROANILINE	SVOC	165 ft from DP	96575208SD	96-SD8	----	8270	09/25/1996	Sediment	0.04	U	0.04	2
3-NITROANILINE	SVOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8270	09/25/1996	Sediment	0.04	U	0.04	2
3-NITROANILINE	SVOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8270	09/25/1996	Sediment	0.08	U	0.08	4.2
3-NITROANILINE	SVOC	40 ft from DP	96575202SD	96-SD2	----	8270	09/25/1996	Sediment	0.09	U	0.09	4.6
3-NITROANILINE	SVOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8270	09/25/1996	Sediment	0.09	U	0.09	4.6
3-NITROANILINE	SVOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8270	09/25/1996	Sediment	0.04	U	0.04	2
3-NITROANILINE	SVOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8270	09/26/1996	Sediment	0.2	U	0.2	8
3-NITROANILINE	SVOC	Drum Accumulation Area	94575210SL	SS 8	2'	8270	10/06/1994	Soil	2	U		2
3-NITROANILINE	SVOC	Drum Accumulation Area	94575211SL	SS 7	2'	8270	10/10/1994	Soil	2	U		2
3-NITROANILINE	SVOC	Drum Accumulation Area	94575212SL	SS 6	2'	8270	10/10/1994	Soil	2	U		2
3-NITROANILINE	SVOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8270	10/10/1994	Soil	3	U		3

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
3-NITROANILINE	SVOC	Drum Accumulation Area	94575215SL	SS 4	2'	8270	10/10/1994	Soil	2	U		2
3-NITROANILINE	SVOC	Drum Accumulation Area	94575216SL	SS 3	2'	8270	10/10/1994	Soil	2	U		2
3-NITROANILINE	SVOC	Drum Accumulation Area	94575217SL	SS 2	2'	8270	10/10/1994	Soil	2	U		2
3-NITROANILINE	SVOC	Drum Accumulation Area	94575218SL	SS 1	2'	8270	10/10/1994	Soil	2	U		2
3-NITROANILINE	SVOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8270	11/03/1994	Soil	2	U		2
3-NITROANILINE	SVOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8270	11/03/1994	Soil	2	U		2
3-NITROANILINE	SVOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8270	11/07/1994	Soil	2	U		2
3-NITROANILINE	SVOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8270	11/09/1994	Soil	2	U		2
3-NITROANILINE	SVOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8270	11/11/1994	Soil	2	U		2
3-NITROANILINE	SVOC	965752BH01	96575225SL	AP-3785	5	8270	10/02/1996	Soil	0.04	U	0.04	0.04
3-NITROANILINE	SVOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8270	10/03/1996	Soil	0.08	U	0.08	0.08
3-NITROANILINE	SVOC	965752BH03	96575233SL	AP-3787	5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
3-NITROANILINE	SVOC	965752BH04	96575238SL	AP-3788	2.5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
3-NITROANILINE	SVOC	965752BH04	96575239SL-AVG	AP-3788	5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
3-NITROANILINE	SVOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8270	10/06/1994	Soil	2	U		2
3-NITROANILINE	SVOC	Drum Accumulation Area	94575203SL	SS 2	6"	8270	10/06/1994	Soil	2	U		2
3-NITROANILINE	SVOC	Drum Accumulation Area	94575204SL	SS 3	6"	8270	10/06/1994	Soil	2	U		2
3-NITROANILINE	SVOC	Drum Accumulation Area	94575205SL	SS 4	6"	8270	10/06/1994	Soil	2	U		2
3-NITROANILINE	SVOC	Drum Accumulation Area	94575206SL	SS 5	6"	8270	10/06/1994	Soil	2	U		2
3-NITROANILINE	SVOC	Drum Accumulation Area	94575207SL	SS 6	6"	8270	10/06/1994	Soil	2	U		2
3-NITROANILINE	SVOC	Drum Accumulation Area	94575208SL	SS 7	6"	8270	10/06/1994	Soil	2	U		2
3-NITROANILINE	SVOC	Drum Accumulation Area	94575209SL	SS 8	6"	8270	10/06/1994	Soil	2	U		2
3-NITROANILINE	SVOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8270	11/03/1994	Soil	4	U		4
3-NITROANILINE	SVOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8270	11/03/1994	Soil	4	U		4
3-NITROANILINE	SVOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8270	11/07/1994	Soil	2	U		2
3-NITROANILINE	SVOC	Cooling Pond	94575231SL	AP-3503	0-6'	8270	11/08/1994	Soil	2	U		2
3-NITROANILINE	SVOC	Cooling Pond	94575235SL	AP-3504	0-2'	8270	11/09/1994	Soil	2	U		2
3-NITROANILINE	SVOC	965752BH03	96575230SL	AP-3787	0	8270	10/03/1996	Soil	0.04	U	0.04	2
3-NITROANILINE	SVOC	965752BH04	96575236SL-AVG	AP-3788	0	8270	10/03/1996	Soil	0.04	U	0.04	2
4,6-DINITRO-2-METHYLPHENOL	SVOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8270	12/08/1994	Sediment	2	U		2
4,6-DINITRO-2-METHYLPHENOL	SVOC	Cooling Pond	94575242SD	SD-B	0-6"	8270	12/08/1994	Sediment	2	U		2
4,6-DINITRO-2-METHYLPHENOL	SVOC	Cooling Pond	94575243SD	SD-C	0-6"	8270	12/08/1994	Sediment	24	U		24
4,6-DINITRO-2-METHYLPHENOL	SVOC	Cooling Pond	94575244SD	SD-D	0-6"	8270	12/08/1994	Sediment	2	U		2
4,6-DINITRO-2-METHYLPHENOL	SVOC	Cooling Pond	94575245SD	SD-E	0-6"	8270	12/08/1994	Sediment	2	U		2
4,6-DINITRO-2-METHYLPHENOL	SVOC	Cooling Pond	94575246SD	SD-F	0-6"	8270	12/08/1994	Sediment	2	U		2
4,6-DINITRO-2-METHYLPHENOL	SVOC	Cooling Pond	94575247SD	SD-G	0-6"	8270	12/08/1994	Sediment	4.5	U		4.5
4,6-DINITRO-2-METHYLPHENOL	SVOC	Cooling Pond	94575248SD	SD-H	0-6"	8270	12/08/1994	Sediment	2	U		2
4,6-DINITRO-2-METHYLPHENOL	SVOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8270	09/25/1996	Sediment	0.7	U	0.7	20
4,6-DINITRO-2-METHYLPHENOL	SVOC	119 ft from DP	96575205SD	96-SD5	----	8270	09/25/1996	Sediment	0.2	U	0.2	4.6
4,6-DINITRO-2-METHYLPHENOL	SVOC	147 ft from DP	96575206SD	96-SD6	----	8270	09/25/1996	Sediment	0.07	U	0.07	2
4,6-DINITRO-2-METHYLPHENOL	SVOC	165 ft from DP	96575208SD	96-SD8	----	8270	09/25/1996	Sediment	0.07	U	0.07	2
4,6-DINITRO-2-METHYLPHENOL	SVOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8270	09/25/1996	Sediment	0.07	U	0.07	2
4,6-DINITRO-2-METHYLPHENOL	SVOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8270	09/25/1996	Sediment	0.2	U	0.2	4.2
4,6-DINITRO-2-METHYLPHENOL	SVOC	40 ft from DP	96575202SD	96-SD2	----	8270	09/25/1996	Sediment	0.2	U	0.2	4.6
4,6-DINITRO-2-METHYLPHENOL	SVOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8270	09/25/1996	Sediment	0.2	U	0.2	4.6
4,6-DINITRO-2-METHYLPHENOL	SVOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8270	09/25/1996	Sediment	0.07	U	0.07	2
4,6-DINITRO-2-METHYLPHENOL	SVOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8270	09/26/1996	Sediment	0.3	U	0.3	8
4,6-DINITRO-2-METHYLPHENOL	SVOC	Drum Accumulation Area	94575210SL	SS 8	2'	8270	10/06/1994	Soil	2	U		2
4,6-DINITRO-2-METHYLPHENOL	SVOC	Drum Accumulation Area	94575211SL	SS 7	2'	8270	10/10/1994	Soil	2	U		2
4,6-DINITRO-2-METHYLPHENOL	SVOC	Drum Accumulation Area	94575212SL	SS 6	2'	8270	10/10/1994	Soil	2	U		2
4,6-DINITRO-2-METHYLPHENOL	SVOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8270	10/10/1994	Soil	3	U		3
4,6-DINITRO-2-METHYLPHENOL	SVOC	Drum Accumulation Area	94575215SL	SS 4	2'	8270	10/10/1994	Soil	2	U		2
4,6-DINITRO-2-METHYLPHENOL	SVOC	Drum Accumulation Area	94575216SL	SS 3	2'	8270	10/10/1994	Soil	2	U		2
4,6-DINITRO-2-METHYLPHENOL	SVOC	Drum Accumulation Area	94575217SL	SS 2	2'	8270	10/10/1994	Soil	2	U		2
4,6-DINITRO-2-METHYLPHENOL	SVOC	Drum Accumulation Area	94575218SL	SS 1	2'	8270	10/10/1994	Soil	2	U		2
4,6-DINITRO-2-METHYLPHENOL	SVOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8270	11/03/1994	Soil	2	U		2
4,6-DINITRO-2-METHYLPHENOL	SVOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8270	11/03/1994	Soil	2	U		2
4,6-DINITRO-2-METHYLPHENOL	SVOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8270	11/07/1994	Soil	2	U		2
4,6-DINITRO-2-METHYLPHENOL	SVOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8270	11/09/1994	Soil	2	U		2
4,6-DINITRO-2-METHYLPHENOL	SVOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8270	11/11/1994	Soil	2	U		2
4,6-DINITRO-2-METHYLPHENOL	SVOC	965752BH01	96575225SL	AP-3785	5	8270	10/02/1996	Soil	0.07	U	0.07	0.07
4,6-DINITRO-2-METHYLPHENOL	SVOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8270	10/03/1996	Soil	0.2	U	0.2	0.2

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
4,6-DINITRO-2-METHYLPHENOL	SVOC	965752BH03	96575233SL	AP-3787	5	8270	10/03/1996	Soil	0.07	U	0.07	0.07
4,6-DINITRO-2-METHYLPHENOL	SVOC	965752BH04	96575238SL	AP-3788	2.5	8270	10/03/1996	Soil	0.07	U	0.07	0.07
4,6-DINITRO-2-METHYLPHENOL	SVOC	965752BH04	96575239SL-AVG	AP-3788	5	8270	10/03/1996	Soil	0.07	U	0.07	0.07
4,6-DINITRO-2-METHYLPHENOL	SVOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8270	10/06/1994	Soil	2	U		2
4,6-DINITRO-2-METHYLPHENOL	SVOC	Drum Accumulation Area	94575203SL	SS 2	6"	8270	10/06/1994	Soil	2	U		2
4,6-DINITRO-2-METHYLPHENOL	SVOC	Drum Accumulation Area	94575204SL	SS 3	6"	8270	10/06/1994	Soil	2	U		2
4,6-DINITRO-2-METHYLPHENOL	SVOC	Drum Accumulation Area	94575205SL	SS 4	6"	8270	10/06/1994	Soil	2	U		2
4,6-DINITRO-2-METHYLPHENOL	SVOC	Drum Accumulation Area	94575206SL	SS 5	6"	8270	10/06/1994	Soil	2	U		2
4,6-DINITRO-2-METHYLPHENOL	SVOC	Drum Accumulation Area	94575207SL	SS 6	6"	8270	10/06/1994	Soil	2	U		2
4,6-DINITRO-2-METHYLPHENOL	SVOC	Drum Accumulation Area	94575208SL	SS 7	6"	8270	10/06/1994	Soil	2	U		2
4,6-DINITRO-2-METHYLPHENOL	SVOC	Drum Accumulation Area	94575209SL	SS 8	6"	8270	10/06/1994	Soil	2	U		2
4,6-DINITRO-2-METHYLPHENOL	SVOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8270	11/03/1994	Soil	4	U		4
4,6-DINITRO-2-METHYLPHENOL	SVOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8270	11/03/1994	Soil	4	U		4
4,6-DINITRO-2-METHYLPHENOL	SVOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8270	11/07/1994	Soil	2	U		2
4,6-DINITRO-2-METHYLPHENOL	SVOC	Cooling Pond	94575231SL	AP-3503	0-6'	8270	11/08/1994	Soil	2	U		2
4,6-DINITRO-2-METHYLPHENOL	SVOC	Cooling Pond	94575235SL	AP-3504	0-2'	8270	11/09/1994	Soil	2	U		2
4,6-DINITRO-2-METHYLPHENOL	SVOC	965752BH03	96575230SL	AP-3787	0	8270	10/03/1996	Soil	0.07	U	0.07	2
4,6-DINITRO-2-METHYLPHENOL	SVOC	965752BH04	96575236SL-AVG	AP-3788	0	8270	10/03/1996	Soil	0.07	U	0.07	2
4-BROMOPHENYL PHENYL ETHER	SVOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
4-BROMOPHENYL PHENYL ETHER	SVOC	Cooling Pond	94575242SD	SD-B	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
4-BROMOPHENYL PHENYL ETHER	SVOC	Cooling Pond	94575243SD	SD-C	0-6"	8270	12/08/1994	Sediment	4	U		4
4-BROMOPHENYL PHENYL ETHER	SVOC	Cooling Pond	94575244SD	SD-D	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
4-BROMOPHENYL PHENYL ETHER	SVOC	Cooling Pond	94575245SD	SD-E	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
4-BROMOPHENYL PHENYL ETHER	SVOC	Cooling Pond	94575246SD	SD-F	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
4-BROMOPHENYL PHENYL ETHER	SVOC	Cooling Pond	94575247SD	SD-G	0-6"	8270	12/08/1994	Sediment	0.8	U		0.8
4-BROMOPHENYL PHENYL ETHER	SVOC	Cooling Pond	94575248SD	SD-H	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
4-BROMOPHENYL PHENYL ETHER	SVOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8270	09/25/1996	Sediment	0.6	U	0.6	3
4-BROMOPHENYL PHENYL ETHER	SVOC	119 ft from DP	96575205SD	96-SD5	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7
4-BROMOPHENYL PHENYL ETHER	SVOC	147 ft from DP	96575206SD	96-SD6	----	8270	09/25/1996	Sediment	0.06	U	0.06	0.3
4-BROMOPHENYL PHENYL ETHER	SVOC	165 ft from DP	96575208SD	96-SD8	----	8270	09/25/1996	Sediment	0.06	U	0.06	0.3
4-BROMOPHENYL PHENYL ETHER	SVOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8270	09/25/1996	Sediment	0.06	U	0.06	0.3
4-BROMOPHENYL PHENYL ETHER	SVOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7
4-BROMOPHENYL PHENYL ETHER	SVOC	40 ft from DP	96575202SD	96-SD2	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7
4-BROMOPHENYL PHENYL ETHER	SVOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7
4-BROMOPHENYL PHENYL ETHER	SVOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8270	09/25/1996	Sediment	0.06	U	0.06	0.3
4-BROMOPHENYL PHENYL ETHER	SVOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8270	09/26/1996	Sediment	0.3	U	0.3	1.2
4-BROMOPHENYL PHENYL ETHER	SVOC	Drum Accumulation Area	94575210SL	SS 8	2'	8270	10/06/1994	Soil	0.3	U		0.3
4-BROMOPHENYL PHENYL ETHER	SVOC	Drum Accumulation Area	94575211SL	SS 7	2'	8270	10/10/1994	Soil	0.3	U		0.3
4-BROMOPHENYL PHENYL ETHER	SVOC	Drum Accumulation Area	94575212SL	SS 6	2'	8270	10/10/1994	Soil	0.3	U		0.3
4-BROMOPHENYL PHENYL ETHER	SVOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8270	10/10/1994	Soil	0.5	U		0.5
4-BROMOPHENYL PHENYL ETHER	SVOC	Drum Accumulation Area	94575215SL	SS 4	2'	8270	10/10/1994	Soil	0.3	U		0.3
4-BROMOPHENYL PHENYL ETHER	SVOC	Drum Accumulation Area	94575216SL	SS 3	2'	8270	10/10/1994	Soil	0.3	U		0.3
4-BROMOPHENYL PHENYL ETHER	SVOC	Drum Accumulation Area	94575217SL	SS 2	2'	8270	10/10/1994	Soil	0.3	U		0.3
4-BROMOPHENYL PHENYL ETHER	SVOC	Drum Accumulation Area	94575218SL	SS 1	2'	8270	10/10/1994	Soil	0.3	U		0.3
4-BROMOPHENYL PHENYL ETHER	SVOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8270	11/03/1994	Soil	0.3	U		0.3
4-BROMOPHENYL PHENYL ETHER	SVOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8270	11/03/1994	Soil	0.3	U		0.3
4-BROMOPHENYL PHENYL ETHER	SVOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8270	11/07/1994	Soil	0.3	U		0.3
4-BROMOPHENYL PHENYL ETHER	SVOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8270	11/09/1994	Soil	0.3	U		0.3
4-BROMOPHENYL PHENYL ETHER	SVOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8270	11/11/1994	Soil	0.3	U		0.3
4-BROMOPHENYL PHENYL ETHER	SVOC	965752BH01	96575225SL	AP-3785	5	8270	10/02/1996	Soil	0.06	U	0.06	0.06
4-BROMOPHENYL PHENYL ETHER	SVOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8270	10/03/1996	Soil	0.2	U	0.2	0.2
4-BROMOPHENYL PHENYL ETHER	SVOC	965752BH03	96575233SL	AP-3787	5	8270	10/03/1996	Soil	0.06	U	0.06	0.06
4-BROMOPHENYL PHENYL ETHER	SVOC	965752BH04	96575238SL	AP-3788	2.5	8270	10/03/1996	Soil	0.06	U	0.06	0.06
4-BROMOPHENYL PHENYL ETHER	SVOC	965752BH04	96575239SL-AVG	AP-3788	5	8270	10/03/1996	Soil	0.06	U	0.06	0.06
4-BROMOPHENYL PHENYL ETHER	SVOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8270	10/06/1994	Soil	0.3	U		0.3
4-BROMOPHENYL PHENYL ETHER	SVOC	Drum Accumulation Area	94575203SL	SS 2	6"	8270	10/06/1994	Soil	0.3	U		0.3
4-BROMOPHENYL PHENYL ETHER	SVOC	Drum Accumulation Area	94575204SL	SS 3	6"	8270	10/06/1994	Soil	0.3	U		0.3
4-BROMOPHENYL PHENYL ETHER	SVOC	Drum Accumulation Area	94575205SL	SS 4	6"	8270	10/06/1994	Soil	0.3	U		0.3
4-BROMOPHENYL PHENYL ETHER	SVOC	Drum Accumulation Area	94575206SL	SS 5	6"	8270	10/06/1994	Soil	0.3	U		0.3
4-BROMOPHENYL PHENYL ETHER	SVOC	Drum Accumulation Area	94575207SL	SS 6	6"	8270	10/06/1994	Soil	0.3	U		0.3
4-BROMOPHENYL PHENYL ETHER	SVOC	Drum Accumulation Area	94575208SL	SS 7	6"	8270	10/06/1994	Soil	0.3	U		0.3
4-BROMOPHENYL PHENYL ETHER	SVOC	Drum Accumulation Area	94575209SL	SS 8	6"	8270	10/06/1994	Soil	0.3	U		0.3

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
4-BROMOPHENYL PHENYL ETHER	SVOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8270	11/03/1994	Soil	0.6	U		0.6
4-BROMOPHENYL PHENYL ETHER	SVOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8270	11/03/1994	Soil	0.6	U		0.6
4-BROMOPHENYL PHENYL ETHER	SVOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8270	11/07/1994	Soil	0.3	U		0.3
4-BROMOPHENYL PHENYL ETHER	SVOC	Cooling Pond	94575231SL	AP-3503	0-6'	8270	11/08/1994	Soil	0.3	U		0.3
4-BROMOPHENYL PHENYL ETHER	SVOC	Cooling Pond	94575235SL	AP-3504	0-2'	8270	11/09/1994	Soil	0.3	U		0.3
4-BROMOPHENYL PHENYL ETHER	SVOC	965752BH03	96575230SL	AP-3787	0	8270	10/03/1996	Soil	0.06	U	0.06	0.3
4-BROMOPHENYL PHENYL ETHER	SVOC	965752BH04	96575236SL-AVG	AP-3788	0	8270	10/03/1996	Soil	0.06	U	0.06	0.3
4-CHLORO-3-METHYLPHENOL	SVOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
4-CHLORO-3-METHYLPHENOL	SVOC	Cooling Pond	94575242SD	SD-B	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
4-CHLORO-3-METHYLPHENOL	SVOC	Cooling Pond	94575243SD	SD-C	0-6"	8270	12/08/1994	Sediment	4	U		4
4-CHLORO-3-METHYLPHENOL	SVOC	Cooling Pond	94575244SD	SD-D	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
4-CHLORO-3-METHYLPHENOL	SVOC	Cooling Pond	94575245SD	SD-E	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
4-CHLORO-3-METHYLPHENOL	SVOC	Cooling Pond	94575246SD	SD-F	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
4-CHLORO-3-METHYLPHENOL	SVOC	Cooling Pond	94575247SD	SD-G	0-6"	8270	12/08/1994	Sediment	0.8	U		0.8
4-CHLORO-3-METHYLPHENOL	SVOC	Cooling Pond	94575248SD	SD-H	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
4-CHLORO-3-METHYLPHENOL	SVOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8270	09/25/1996	Sediment	0.4	U	0.4	3
4-CHLORO-3-METHYLPHENOL	SVOC	119 ft from DP	96575205SD	96-SD5	----	8270	09/25/1996	Sediment	0.09	U	0.09	0.7
4-CHLORO-3-METHYLPHENOL	SVOC	147 ft from DP	96575206SD	96-SD6	----	8270	09/25/1996	Sediment	0.04	U	0.04	0.3
4-CHLORO-3-METHYLPHENOL	SVOC	165 ft from DP	96575208SD	96-SD8	----	8270	09/25/1996	Sediment	0.04	U	0.04	0.3
4-CHLORO-3-METHYLPHENOL	SVOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8270	09/25/1996	Sediment	0.04	U	0.04	0.3
4-CHLORO-3-METHYLPHENOL	SVOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8270	09/25/1996	Sediment	0.08	U	0.08	0.7
4-CHLORO-3-METHYLPHENOL	SVOC	40 ft from DP	96575202SD	96-SD2	----	8270	09/25/1996	Sediment	0.09	U	0.09	0.7
4-CHLORO-3-METHYLPHENOL	SVOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8270	09/25/1996	Sediment	0.09	U	0.09	0.7
4-CHLORO-3-METHYLPHENOL	SVOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8270	09/25/1996	Sediment	0.04	U	0.04	0.3
4-CHLORO-3-METHYLPHENOL	SVOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8270	09/26/1996	Sediment	0.2	U	0.2	1.2
4-CHLORO-3-METHYLPHENOL	SVOC	Drum Accumulation Area	94575210SL	SS 8	2'	8270	10/06/1994	Soil	0.3	U		0.3
4-CHLORO-3-METHYLPHENOL	SVOC	Drum Accumulation Area	94575211SL	SS 7	2'	8270	10/10/1994	Soil	0.3	U		0.3
4-CHLORO-3-METHYLPHENOL	SVOC	Drum Accumulation Area	94575212SL	SS 6	2'	8270	10/10/1994	Soil	0.3	U		0.3
4-CHLORO-3-METHYLPHENOL	SVOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8270	10/10/1994	Soil	0.5	U		0.5
4-CHLORO-3-METHYLPHENOL	SVOC	Drum Accumulation Area	94575215SL	SS 4	2'	8270	10/10/1994	Soil	0.3	U		0.3
4-CHLORO-3-METHYLPHENOL	SVOC	Drum Accumulation Area	94575216SL	SS 3	2'	8270	10/10/1994	Soil	0.3	U		0.3
4-CHLORO-3-METHYLPHENOL	SVOC	Drum Accumulation Area	94575217SL	SS 2	2'	8270	10/10/1994	Soil	0.3	U		0.3
4-CHLORO-3-METHYLPHENOL	SVOC	Drum Accumulation Area	94575218SL	SS 1	2'	8270	10/10/1994	Soil	0.3	U		0.3
4-CHLORO-3-METHYLPHENOL	SVOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8270	11/03/1994	Soil	0.3	U		0.3
4-CHLORO-3-METHYLPHENOL	SVOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8270	11/03/1994	Soil	0.3	U		0.3
4-CHLORO-3-METHYLPHENOL	SVOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8270	11/07/1994	Soil	0.3	U		0.3
4-CHLORO-3-METHYLPHENOL	SVOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8270	11/09/1994	Soil	0.3	U		0.3
4-CHLORO-3-METHYLPHENOL	SVOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8270	11/11/1994	Soil	0.3	U		0.3
4-CHLORO-3-METHYLPHENOL	SVOC	965752BH01	96575225SL	AP-3785	5	8270	10/02/1996	Soil	0.04	U	0.04	0.04
4-CHLORO-3-METHYLPHENOL	SVOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8270	10/03/1996	Soil	0.08	U	0.08	0.08
4-CHLORO-3-METHYLPHENOL	SVOC	965752BH03	96575233SL	AP-3787	5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
4-CHLORO-3-METHYLPHENOL	SVOC	965752BH04	96575238SL	AP-3788	2.5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
4-CHLORO-3-METHYLPHENOL	SVOC	965752BH04	96575239SL-AVG	AP-3788	5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
4-CHLORO-3-METHYLPHENOL	SVOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8270	10/06/1994	Soil	0.3	U		0.3
4-CHLORO-3-METHYLPHENOL	SVOC	Drum Accumulation Area	94575203SL	SS 2	6"	8270	10/06/1994	Soil	0.3	U		0.3
4-CHLORO-3-METHYLPHENOL	SVOC	Drum Accumulation Area	94575204SL	SS 3	6"	8270	10/06/1994	Soil	0.3	U		0.3
4-CHLORO-3-METHYLPHENOL	SVOC	Drum Accumulation Area	94575205SL	SS 4	6"	8270	10/06/1994	Soil	0.3	U		0.3
4-CHLORO-3-METHYLPHENOL	SVOC	Drum Accumulation Area	94575206SL	SS 5	6"	8270	10/06/1994	Soil	0.3	U		0.3
4-CHLORO-3-METHYLPHENOL	SVOC	Drum Accumulation Area	94575207SL	SS 6	6"	8270	10/06/1994	Soil	0.3	U		0.3
4-CHLORO-3-METHYLPHENOL	SVOC	Drum Accumulation Area	94575208SL	SS 7	6"	8270	10/06/1994	Soil	0.3	U		0.3
4-CHLORO-3-METHYLPHENOL	SVOC	Drum Accumulation Area	94575209SL	SS 8	6"	8270	10/06/1994	Soil	0.3	U		0.3
4-CHLORO-3-METHYLPHENOL	SVOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8270	11/03/1994	Soil	0.6	U		0.6
4-CHLORO-3-METHYLPHENOL	SVOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8270	11/03/1994	Soil	0.6	U		0.6
4-CHLORO-3-METHYLPHENOL	SVOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8270	11/07/1994	Soil	0.3	U		0.3
4-CHLORO-3-METHYLPHENOL	SVOC	Cooling Pond	94575231SL	AP-3503	0-6'	8270	11/08/1994	Soil	0.3	U		0.3
4-CHLORO-3-METHYLPHENOL	SVOC	Cooling Pond	94575235SL	AP-3504	0-2'	8270	11/09/1994	Soil	0.3	U		0.3
4-CHLORO-3-METHYLPHENOL	SVOC	965752BH03	96575230SL	AP-3787	0	8270	10/03/1996	Soil	0.04	U	0.04	0.3
4-CHLORO-3-METHYLPHENOL	SVOC	965752BH04	96575236SL-AVG	AP-3788	0	8270	10/03/1996	Soil	0.04	U	0.04	0.3
4-CHLOROANILINE	SVOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
4-CHLOROANILINE	SVOC	Cooling Pond	94575242SD	SD-B	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
4-CHLOROANILINE	SVOC	Cooling Pond	94575243SD	SD-C	0-6"	8270	12/08/1994	Sediment	4	U		4
4-CHLOROANILINE	SVOC	Cooling Pond	94575244SD	SD-D	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3

TABLE A-1
Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
4-CHLOROANILINE	SVOC	Cooling Pond	94575245SD	SD-E	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
4-CHLOROANILINE	SVOC	Cooling Pond	94575246SD	SD-F	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
4-CHLOROANILINE	SVOC	Cooling Pond	94575247SD	SD-G	0-6"	8270	12/08/1994	Sediment	0.8	U		0.8
4-CHLOROANILINE	SVOC	Cooling Pond	94575248SD	SD-H	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
4-CHLOROANILINE	SVOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8270	09/25/1996	Sediment	0.4	U	0.4	3
4-CHLOROANILINE	SVOC	119 ft from DP	96575205SD	96-SD5	----	8270	09/25/1996	Sediment	0.09	U	0.09	0.7
4-CHLOROANILINE	SVOC	147 ft from DP	96575206SD	96-SD6	----	8270	09/25/1996	Sediment	0.04	U	0.04	0.3
4-CHLOROANILINE	SVOC	165 ft from DP	96575208SD	96-SD8	----	8270	09/25/1996	Sediment	0.04	U	0.04	0.3
4-CHLOROANILINE	SVOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8270	09/25/1996	Sediment	0.04	U	0.04	0.3
4-CHLOROANILINE	SVOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8270	09/25/1996	Sediment	0.08	U	0.08	0.7
4-CHLOROANILINE	SVOC	40 ft from DP	96575202SD	96-SD2	----	8270	09/25/1996	Sediment	0.09	U	0.09	0.7
4-CHLOROANILINE	SVOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8270	09/25/1996	Sediment	0.09	U	0.09	0.7
4-CHLOROANILINE	SVOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8270	09/25/1996	Sediment	0.04	U	0.04	0.3
4-CHLOROANILINE	SVOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8270	09/26/1996	Sediment	0.2	U	0.2	1.2
4-CHLOROANILINE	SVOC	Drum Accumulation Area	94575210SL	SS 8	2'	8270	10/06/1994	Soil	0.3	U		0.3
4-CHLOROANILINE	SVOC	Drum Accumulation Area	94575211SL	SS 7	2'	8270	10/10/1994	Soil	0.3	U		0.3
4-CHLOROANILINE	SVOC	Drum Accumulation Area	94575212SL	SS 6	2'	8270	10/10/1994	Soil	0.3	U		0.3
4-CHLOROANILINE	SVOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8270	10/10/1994	Soil	0.5	U		0.5
4-CHLOROANILINE	SVOC	Drum Accumulation Area	94575215SL	SS 4	2'	8270	10/10/1994	Soil	0.3	U		0.3
4-CHLOROANILINE	SVOC	Drum Accumulation Area	94575216SL	SS 3	2'	8270	10/10/1994	Soil	0.3	U		0.3
4-CHLOROANILINE	SVOC	Drum Accumulation Area	94575217SL	SS 2	2'	8270	10/10/1994	Soil	0.3	U		0.3
4-CHLOROANILINE	SVOC	Drum Accumulation Area	94575218SL	SS 1	2'	8270	10/10/1994	Soil	0.3	U		0.3
4-CHLOROANILINE	SVOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8270	11/03/1994	Soil	0.3	U		0.3
4-CHLOROANILINE	SVOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8270	11/03/1994	Soil	0.3	U		0.3
4-CHLOROANILINE	SVOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8270	11/07/1994	Soil	0.3	U		0.3
4-CHLOROANILINE	SVOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8270	11/09/1994	Soil	0.3	U		0.3
4-CHLOROANILINE	SVOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8270	11/11/1994	Soil	0.3	U		0.3
4-CHLOROANILINE	SVOC	965752BH01	96575225SL	AP-3785	5	8270	10/02/1996	Soil	0.04	U	0.04	0.04
4-CHLOROANILINE	SVOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8270	10/03/1996	Soil	0.08	U	0.08	0.08
4-CHLOROANILINE	SVOC	965752BH03	96575233SL	AP-3787	5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
4-CHLOROANILINE	SVOC	965752BH04	96575238SL	AP-3788	2.5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
4-CHLOROANILINE	SVOC	965752BH04	96575239SL-AVG	AP-3788	5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
4-CHLOROANILINE	SVOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8270	10/06/1994	Soil	0.3	U		0.3
4-CHLOROANILINE	SVOC	Drum Accumulation Area	94575203SL	SS 2	6"	8270	10/06/1994	Soil	0.3	U		0.3
4-CHLOROANILINE	SVOC	Drum Accumulation Area	94575204SL	SS 3	6"	8270	10/06/1994	Soil	0.3	U		0.3
4-CHLOROANILINE	SVOC	Drum Accumulation Area	94575205SL	SS 4	6"	8270	10/06/1994	Soil	0.3	U		0.3
4-CHLOROANILINE	SVOC	Drum Accumulation Area	94575206SL	SS 5	6"	8270	10/06/1994	Soil	0.3	U		0.3
4-CHLOROANILINE	SVOC	Drum Accumulation Area	94575207SL	SS 6	6"	8270	10/06/1994	Soil	0.3	U		0.3
4-CHLOROANILINE	SVOC	Drum Accumulation Area	94575208SL	SS 7	6"	8270	10/06/1994	Soil	0.3	U		0.3
4-CHLOROANILINE	SVOC	Drum Accumulation Area	94575209SL	SS 8	6"	8270	10/06/1994	Soil	0.3	U		0.3
4-CHLOROANILINE	SVOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8270	11/03/1994	Soil	0.6	U		0.6
4-CHLOROANILINE	SVOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8270	11/03/1994	Soil	0.6	U		0.6
4-CHLOROANILINE	SVOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8270	11/07/1994	Soil	0.3	U		0.3
4-CHLOROANILINE	SVOC	Cooling Pond	94575231SL	AP-3503	0-6'	8270	11/08/1994	Soil	0.3	U		0.3
4-CHLOROANILINE	SVOC	Cooling Pond	94575235SL	AP-3504	0-2'	8270	11/09/1994	Soil	0.3	U		0.3
4-CHLOROANILINE	SVOC	965752BH03	96575230SL	AP-3787	0	8270	10/03/1996	Soil	0.04	U	0.04	0.3
4-CHLOROANILINE	SVOC	965752BH04	96575236SL-AVG	AP-3788	0	8270	10/03/1996	Soil	0.04	U	0.04	0.3
4-CHLOROPHENYL PHENYL ETHER	SVOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
4-CHLOROPHENYL PHENYL ETHER	SVOC	Cooling Pond	94575242SD	SD-B	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
4-CHLOROPHENYL PHENYL ETHER	SVOC	Cooling Pond	94575243SD	SD-C	0-6"	8270	12/08/1994	Sediment	4	U		4
4-CHLOROPHENYL PHENYL ETHER	SVOC	Cooling Pond	94575244SD	SD-D	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
4-CHLOROPHENYL PHENYL ETHER	SVOC	Cooling Pond	94575245SD	SD-E	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
4-CHLOROPHENYL PHENYL ETHER	SVOC	Cooling Pond	94575246SD	SD-F	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
4-CHLOROPHENYL PHENYL ETHER	SVOC	Cooling Pond	94575247SD	SD-G	0-6"	8270	12/08/1994	Sediment	0.8	U		0.8
4-CHLOROPHENYL PHENYL ETHER	SVOC	Cooling Pond	94575248SD	SD-H	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
4-CHLOROPHENYL PHENYL ETHER	SVOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8270	09/25/1996	Sediment	0.5	U	0.5	3
4-CHLOROPHENYL PHENYL ETHER	SVOC	119 ft from DP	96575205SD	96-SD5	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7
4-CHLOROPHENYL PHENYL ETHER	SVOC	147 ft from DP	96575206SD	96-SD6	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
4-CHLOROPHENYL PHENYL ETHER	SVOC	165 ft from DP	96575208SD	96-SD8	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
4-CHLOROPHENYL PHENYL ETHER	SVOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
4-CHLOROPHENYL PHENYL ETHER	SVOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8270	09/25/1996	Sediment	0.1	U	0.1	0.7
4-CHLOROPHENYL PHENYL ETHER	SVOC	40 ft from DP	96575202SD	96-SD2	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
4-CHLOROPHENYL PHENYL ETHER	SVOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7
4-CHLOROPHENYL PHENYL ETHER	SVOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
4-CHLOROPHENYL PHENYL ETHER	SVOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8270	09/26/1996	Sediment	0.2	U	0.2	1.2
4-CHLOROPHENYL PHENYL ETHER	SVOC	Drum Accumulation Area	94575210SL	SS 8	2'	8270	10/06/1994	Soil	0.3	U		0.3
4-CHLOROPHENYL PHENYL ETHER	SVOC	Drum Accumulation Area	94575211SL	SS 7	2'	8270	10/10/1994	Soil	0.3	U		0.3
4-CHLOROPHENYL PHENYL ETHER	SVOC	Drum Accumulation Area	94575212SL	SS 6	2'	8270	10/10/1994	Soil	0.3	U		0.3
4-CHLOROPHENYL PHENYL ETHER	SVOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8270	10/10/1994	Soil	0.5	U		0.5
4-CHLOROPHENYL PHENYL ETHER	SVOC	Drum Accumulation Area	94575215SL	SS 4	2'	8270	10/10/1994	Soil	0.3	U		0.3
4-CHLOROPHENYL PHENYL ETHER	SVOC	Drum Accumulation Area	94575216SL	SS 3	2'	8270	10/10/1994	Soil	0.3	U		0.3
4-CHLOROPHENYL PHENYL ETHER	SVOC	Drum Accumulation Area	94575217SL	SS 2	2'	8270	10/10/1994	Soil	0.3	U		0.3
4-CHLOROPHENYL PHENYL ETHER	SVOC	Drum Accumulation Area	94575218SL	SS 1	2'	8270	10/10/1994	Soil	0.3	U		0.3
4-CHLOROPHENYL PHENYL ETHER	SVOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8270	11/03/1994	Soil	0.3	U		0.3
4-CHLOROPHENYL PHENYL ETHER	SVOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8270	11/03/1994	Soil	0.3	U		0.3
4-CHLOROPHENYL PHENYL ETHER	SVOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8270	11/07/1994	Soil	0.3	U		0.3
4-CHLOROPHENYL PHENYL ETHER	SVOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8270	11/09/1994	Soil	0.3	U		0.3
4-CHLOROPHENYL PHENYL ETHER	SVOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8270	11/11/1994	Soil	0.3	U		0.3
4-CHLOROPHENYL PHENYL ETHER	SVOC	965752BH01	96575225SL	AP-3785	5	8270	10/02/1996	Soil	0.05	U	0.05	0.05
4-CHLOROPHENYL PHENYL ETHER	SVOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8270	10/03/1996	Soil	0.1	U	0.1	0.1
4-CHLOROPHENYL PHENYL ETHER	SVOC	965752BH03	96575233SL	AP-3787	5	8270	10/03/1996	Soil	0.05	U	0.05	0.05
4-CHLOROPHENYL PHENYL ETHER	SVOC	965752BH04	96575238SL	AP-3788	2.5	8270	10/03/1996	Soil	0.05	U	0.05	0.05
4-CHLOROPHENYL PHENYL ETHER	SVOC	965752BH04	96575239SL-AVG	AP-3788	5	8270	10/03/1996	Soil	0.05	U	0.05	0.05
4-CHLOROPHENYL PHENYL ETHER	SVOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8270	10/06/1994	Soil	0.3	U		0.3
4-CHLOROPHENYL PHENYL ETHER	SVOC	Drum Accumulation Area	94575203SL	SS 2	6"	8270	10/06/1994	Soil	0.3	U		0.3
4-CHLOROPHENYL PHENYL ETHER	SVOC	Drum Accumulation Area	94575204SL	SS 3	6"	8270	10/06/1994	Soil	0.3	U		0.3
4-CHLOROPHENYL PHENYL ETHER	SVOC	Drum Accumulation Area	94575205SL	SS 4	6"	8270	10/06/1994	Soil	0.3	U		0.3
4-CHLOROPHENYL PHENYL ETHER	SVOC	Drum Accumulation Area	94575206SL	SS 5	6"	8270	10/06/1994	Soil	0.3	U		0.3
4-CHLOROPHENYL PHENYL ETHER	SVOC	Drum Accumulation Area	94575207SL	SS 6	6"	8270	10/06/1994	Soil	0.3	U		0.3
4-CHLOROPHENYL PHENYL ETHER	SVOC	Drum Accumulation Area	94575208SL	SS 7	6"	8270	10/06/1994	Soil	0.3	U		0.3
4-CHLOROPHENYL PHENYL ETHER	SVOC	Drum Accumulation Area	94575209SL	SS 8	6"	8270	10/06/1994	Soil	0.3	U		0.3
4-CHLOROPHENYL PHENYL ETHER	SVOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8270	11/03/1994	Soil	0.6	U		0.6
4-CHLOROPHENYL PHENYL ETHER	SVOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8270	11/03/1994	Soil	0.6	U		0.6
4-CHLOROPHENYL PHENYL ETHER	SVOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8270	11/07/1994	Soil	0.3	U		0.3
4-CHLOROPHENYL PHENYL ETHER	SVOC	Cooling Pond	94575231SL	AP-3503	0-6'	8270	11/08/1994	Soil	0.3	U		0.3
4-CHLOROPHENYL PHENYL ETHER	SVOC	Cooling Pond	94575235SL	AP-3504	0-2'	8270	11/09/1994	Soil	0.3	U		0.3
4-CHLOROPHENYL PHENYL ETHER	SVOC	965752BH03	96575230SL	AP-3787	0	8270	10/03/1996	Soil	0.05	U	0.05	0.3
4-CHLOROPHENYL PHENYL ETHER	SVOC	965752BH04	96575236SL-AVG	AP-3788	0	8270	10/03/1996	Soil	0.05	U	0.05	0.3
4-CHLOROTOLUENE	VOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
4-CHLOROTOLUENE	VOC	Cooling Pond	94575242SD	SD-B	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
4-CHLOROTOLUENE	VOC	Cooling Pond	94575243SD	SD-C	0-6"	8260	12/08/1994	Sediment	0.04	U		0.04
4-CHLOROTOLUENE	VOC	Cooling Pond	94575244SD	SD-D	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
4-CHLOROTOLUENE	VOC	Cooling Pond	94575245SD	SD-E	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
4-CHLOROTOLUENE	VOC	Cooling Pond	94575246SD	SD-F	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
4-CHLOROTOLUENE	VOC	Cooling Pond	94575247SD	SD-G	0-6"	8260	12/08/1994	Sediment	0.04	U		0.04
4-CHLOROTOLUENE	VOC	Cooling Pond	94575248SD	SD-H	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
4-CHLOROTOLUENE	VOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.04
4-CHLOROTOLUENE	VOC	119 ft from DP	96575205SD	96-SD5	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.04
4-CHLOROTOLUENE	VOC	147 ft from DP	96575206SD	96-SD6	----	8260	09/25/1996	Sediment	0.0009	U	0.0009	0.02
4-CHLOROTOLUENE	VOC	165 ft from DP	96575208SD	96-SD8	----	8260	09/25/1996	Sediment	0.0009	U	0.0009	0.02
4-CHLOROTOLUENE	VOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8260	09/25/1996	Sediment	0.0009	U	0.0009	0.02
4-CHLOROTOLUENE	VOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8260	09/25/1996	Sediment	0.003	U	0.003	0.06
4-CHLOROTOLUENE	VOC	40 ft from DP	96575202SD	96-SD2	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.04
4-CHLOROTOLUENE	VOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.04
4-CHLOROTOLUENE	VOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8260	09/25/1996	Sediment	0.0009	U	0.0009	0.02
4-CHLOROTOLUENE	VOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8260	09/26/1996	Sediment	0.002	U	0.002	0.04
4-CHLOROTOLUENE	VOC	Drum Accumulation Area	94575210SL	SS 8	2'	8260	10/06/1994	Soil	0.02	U		0.02
4-CHLOROTOLUENE	VOC	Drum Accumulation Area	94575211SL	SS 7	2'	8260	10/10/1994	Soil	0.02	U		0.02
4-CHLOROTOLUENE	VOC	Drum Accumulation Area	94575212SL	SS 6	2'	8260	10/10/1994	Soil	0.02	U		0.02
4-CHLOROTOLUENE	VOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8260	10/10/1994	Soil	0.02	U		0.02
4-CHLOROTOLUENE	VOC	Drum Accumulation Area	94575215SL	SS 4	2'	8260	10/10/1994	Soil	0.02	U		0.02
4-CHLOROTOLUENE	VOC	Drum Accumulation Area	94575216SL	SS 3	2'	8260	10/10/1994	Soil	0.02	U		0.02
4-CHLOROTOLUENE	VOC	Drum Accumulation Area	94575217SL	SS 2	2'	8260	10/10/1994	Soil	0.02	U		0.02
4-CHLOROTOLUENE	VOC	Drum Accumulation Area	94575218SL	SS 1	2'	8260	10/10/1994	Soil	0.02	U		0.02

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
4-CHLOROTOLUENE	VOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8260	11/03/1994	Soil	0.02	U		0.02
4-CHLOROTOLUENE	VOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8260	11/03/1994	Soil	0.02	U		0.02
4-CHLOROTOLUENE	VOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8260	11/07/1994	Soil	0.02	U		0.02
4-CHLOROTOLUENE	VOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8260	11/09/1994	Soil	0.02	U		0.02
4-CHLOROTOLUENE	VOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8260	11/11/1994	Soil	0.02	U		0.02
4-CHLOROTOLUENE	VOC	965752BH01	96575225SL	AP-3785	5	8260	10/02/1996	Soil	0.0009	U	0.0009	0.0009
4-CHLOROTOLUENE	VOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8260	10/03/1996	Soil	0.0009	U	0.0009	0.0009
4-CHLOROTOLUENE	VOC	965752BH04	96575238SL	AP-3788	2.5	8260	10/03/1996	Soil	0.0009	U	0.0009	0.0009
4-CHLOROTOLUENE	VOC	965752BH04	96575239SL-AVG	AP-3788	5	8260	10/03/1996	Soil	0.0009	U	0.0009	0.0009
4-CHLOROTOLUENE	VOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8260	10/06/1994	Soil	0.02	U		0.02
4-CHLOROTOLUENE	VOC	Drum Accumulation Area	94575203SL	SS 2	6"	8260	10/06/1994	Soil	0.02	U		0.02
4-CHLOROTOLUENE	VOC	Drum Accumulation Area	94575204SL	SS 3	6"	8260	10/06/1994	Soil	0.02	U		0.02
4-CHLOROTOLUENE	VOC	Drum Accumulation Area	94575205SL	SS 4	6"	8260	10/06/1994	Soil	0.02	U		0.02
4-CHLOROTOLUENE	VOC	Drum Accumulation Area	94575206SL	SS 5	6"	8260	10/06/1994	Soil	0.02	U		0.02
4-CHLOROTOLUENE	VOC	Drum Accumulation Area	94575207SL	SS 6	6"	8260	10/06/1994	Soil	0.02	U		0.02
4-CHLOROTOLUENE	VOC	Drum Accumulation Area	94575208SL	SS 7	6"	8260	10/06/1994	Soil	0.02	U		0.02
4-CHLOROTOLUENE	VOC	Drum Accumulation Area	94575209SL	SS 8	6"	8260	10/06/1994	Soil	0.02	U		0.02
4-CHLOROTOLUENE	VOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8260	11/03/1994	Soil	0.02	U		0.02
4-CHLOROTOLUENE	VOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8260	11/03/1994	Soil	0.02	U		0.02
4-CHLOROTOLUENE	VOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8260	11/07/1994	Soil	0.02	U		0.02
4-CHLOROTOLUENE	VOC	Cooling Pond	94575231SL	AP-3503	0-6'	8260	11/08/1994	Soil	0.02	U		0.02
4-CHLOROTOLUENE	VOC	Cooling Pond	94575235SL	AP-3504	0-2'	8260	11/09/1994	Soil	0.02	U		0.02
4-CHLOROTOLUENE	VOC	965752BH03	96575230SL	AP-3787	0	8260	10/03/1996	Soil	0.0009	U	0.0009	0.02
4-CHLOROTOLUENE	VOC	965752BH04	96575236SL-AVG	AP-3788	0	8260	10/03/1996	Soil	0.0009	U	0.0009	0.02
4-NITROANILINE	SVOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8270	12/08/1994	Sediment	2	U		2
4-NITROANILINE	SVOC	Cooling Pond	94575242SD	SD-B	0-6"	8270	12/08/1994	Sediment	2	U		2
4-NITROANILINE	SVOC	Cooling Pond	94575243SD	SD-C	0-6"	8270	12/08/1994	Sediment	24	U		24
4-NITROANILINE	SVOC	Cooling Pond	94575244SD	SD-D	0-6"	8270	12/08/1994	Sediment	2	U		2
4-NITROANILINE	SVOC	Cooling Pond	94575245SD	SD-E	0-6"	8270	12/08/1994	Sediment	2	U		2
4-NITROANILINE	SVOC	Cooling Pond	94575246SD	SD-F	0-6"	8270	12/08/1994	Sediment	2	U		2
4-NITROANILINE	SVOC	Cooling Pond	94575247SD	SD-G	0-6"	8270	12/08/1994	Sediment	4.5	U		4.5
4-NITROANILINE	SVOC	Cooling Pond	94575248SD	SD-H	0-6"	8270	12/08/1994	Sediment	2	U		2
4-NITROANILINE	SVOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8270	09/25/1996	Sediment	0.7	U	0.7	20
4-NITROANILINE	SVOC	119 ft from DP	96575205SD	96-SD5	----	8270	09/25/1996	Sediment	0.2	U	0.2	4.6
4-NITROANILINE	SVOC	147 ft from DP	96575206SD	96-SD6	----	8270	09/25/1996	Sediment	0.07	U	0.07	2
4-NITROANILINE	SVOC	165 ft from DP	96575208SD	96-SD8	----	8270	09/25/1996	Sediment	0.07	U	0.07	2
4-NITROANILINE	SVOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8270	09/25/1996	Sediment	0.07	U	0.07	2
4-NITROANILINE	SVOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8270	09/25/1996	Sediment	0.2	U	0.2	4.2
4-NITROANILINE	SVOC	40 ft from DP	96575202SD	96-SD2	----	8270	09/25/1996	Sediment	0.2	U	0.2	4.6
4-NITROANILINE	SVOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8270	09/25/1996	Sediment	0.2	U	0.2	4.6
4-NITROANILINE	SVOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8270	09/25/1996	Sediment	0.07	U	0.07	2
4-NITROANILINE	SVOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8270	09/26/1996	Sediment	0.3	U	0.3	8
4-NITROANILINE	SVOC	Drum Accumulation Area	94575210SL	SS 8	2'	8270	10/06/1994	Soil	2	U		2
4-NITROANILINE	SVOC	Drum Accumulation Area	94575211SL	SS 7	2'	8270	10/10/1994	Soil	2	U		2
4-NITROANILINE	SVOC	Drum Accumulation Area	94575212SL	SS 6	2'	8270	10/10/1994	Soil	2	U		2
4-NITROANILINE	SVOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8270	10/10/1994	Soil	3	U		3
4-NITROANILINE	SVOC	Drum Accumulation Area	94575215SL	SS 4	2'	8270	10/10/1994	Soil	2	U		2
4-NITROANILINE	SVOC	Drum Accumulation Area	94575216SL	SS 3	2'	8270	10/10/1994	Soil	2	U		2
4-NITROANILINE	SVOC	Drum Accumulation Area	94575217SL	SS 2	2'	8270	10/10/1994	Soil	2	U		2
4-NITROANILINE	SVOC	Drum Accumulation Area	94575218SL	SS 1	2'	8270	10/10/1994	Soil	2	U		2
4-NITROANILINE	SVOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8270	11/03/1994	Soil	2	U		2
4-NITROANILINE	SVOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8270	11/03/1994	Soil	2	U		2
4-NITROANILINE	SVOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8270	11/07/1994	Soil	2	U		2
4-NITROANILINE	SVOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8270	11/09/1994	Soil	2	U		2
4-NITROANILINE	SVOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8270	11/11/1994	Soil	2	U		2
4-NITROANILINE	SVOC	965752BH01	96575225SL	AP-3785	5	8270	10/02/1996	Soil	0.07	U	0.07	0.07
4-NITROANILINE	SVOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8270	10/03/1996	Soil	0.2	U	0.2	0.2
4-NITROANILINE	SVOC	965752BH03	96575233SL	AP-3787	5	8270	10/03/1996	Soil	0.07	U	0.07	0.07
4-NITROANILINE	SVOC	965752BH04	96575238SL	AP-3788	2.5	8270	10/03/1996	Soil	0.07	U	0.07	0.07
4-NITROANILINE	SVOC	965752BH04	96575239SL-AVG	AP-3788	5	8270	10/03/1996	Soil	0.07	U	0.07	0.07
4-NITROANILINE	SVOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8270	10/06/1994	Soil	2	U		2
4-NITROANILINE	SVOC	Drum Accumulation Area	94575203SL	SS 2	6"	8270	10/06/1994	Soil	2	U		2

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
4-NITROANILINE	SVOC	Drum Accumulation Area	94575204SL	SS 3	6"	8270	10/06/1994	Soil	2	U		2
4-NITROANILINE	SVOC	Drum Accumulation Area	94575205SL	SS 4	6"	8270	10/06/1994	Soil	2	U		2
4-NITROANILINE	SVOC	Drum Accumulation Area	94575206SL	SS 5	6"	8270	10/06/1994	Soil	2	U		2
4-NITROANILINE	SVOC	Drum Accumulation Area	94575207SL	SS 6	6"	8270	10/06/1994	Soil	2	U		2
4-NITROANILINE	SVOC	Drum Accumulation Area	94575208SL	SS 7	6"	8270	10/06/1994	Soil	2	U		2
4-NITROANILINE	SVOC	Drum Accumulation Area	94575209SL	SS 8	6"	8270	10/06/1994	Soil	2	U		2
4-NITROANILINE	SVOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8270	11/03/1994	Soil	4	U		4
4-NITROANILINE	SVOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8270	11/03/1994	Soil	4	U		4
4-NITROANILINE	SVOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8270	11/07/1994	Soil	2	U		2
4-NITROANILINE	SVOC	Cooling Pond	94575231SL	AP-3503	0-6'	8270	11/08/1994	Soil	2	U		2
4-NITROANILINE	SVOC	Cooling Pond	94575235SL	AP-3504	0-2'	8270	11/09/1994	Soil	2	U		2
4-NITROANILINE	SVOC	965752BH03	96575230SL	AP-3787	0	8270	10/03/1996	Soil	0.07	U	0.07	2
4-NITROANILINE	SVOC	965752BH04	96575236SL-AVG	AP-3788	0	8270	10/03/1996	Soil	0.07	U	0.07	2
4-NITROPHENOL	SVOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8270	12/08/1994	Sediment	2	U		2
4-NITROPHENOL	SVOC	Cooling Pond	94575242SD	SD-B	0-6"	8270	12/08/1994	Sediment	2	U		2
4-NITROPHENOL	SVOC	Cooling Pond	94575243SD	SD-C	0-6"	8270	12/08/1994	Sediment	24	U		24
4-NITROPHENOL	SVOC	Cooling Pond	94575244SD	SD-D	0-6"	8270	12/08/1994	Sediment	2	U		2
4-NITROPHENOL	SVOC	Cooling Pond	94575245SD	SD-E	0-6"	8270	12/08/1994	Sediment	2	U		2
4-NITROPHENOL	SVOC	Cooling Pond	94575246SD	SD-F	0-6"	8270	12/08/1994	Sediment	2	U		2
4-NITROPHENOL	SVOC	Cooling Pond	94575247SD	SD-G	0-6"	8270	12/08/1994	Sediment	4.5	U		4.5
4-NITROPHENOL	SVOC	Cooling Pond	94575248SD	SD-H	0-6"	8270	12/08/1994	Sediment	2	U		2
4-NITROPHENOL	SVOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8270	09/25/1996	Sediment	0.8	U	0.8	20
4-NITROPHENOL	SVOC	119 ft from DP	96575205SD	96-SD5	----	8270	09/25/1996	Sediment	0.2	U	0.2	4.6
4-NITROPHENOL	SVOC	147 ft from DP	96575206SD	96-SD6	----	8270	09/25/1996	Sediment	0.08	U	0.08	2
4-NITROPHENOL	SVOC	165 ft from DP	96575208SD	96-SD8	----	8270	09/25/1996	Sediment	0.08	U	0.08	2
4-NITROPHENOL	SVOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8270	09/25/1996	Sediment	0.08	U	0.08	2
4-NITROPHENOL	SVOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8270	09/25/1996	Sediment	0.2	U	0.2	4.2
4-NITROPHENOL	SVOC	40 ft from DP	96575202SD	96-SD2	----	8270	09/25/1996	Sediment	0.2	U	0.2	4.6
4-NITROPHENOL	SVOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8270	09/25/1996	Sediment	0.2	U	0.2	4.6
4-NITROPHENOL	SVOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8270	09/25/1996	Sediment	0.08	U	0.08	2
4-NITROPHENOL	SVOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8270	09/26/1996	Sediment	0.4	U	0.4	8
4-NITROPHENOL	SVOC	Drum Accumulation Area	94575210SL	SS 8	2'	8270	10/06/1994	Soil	2	U		2
4-NITROPHENOL	SVOC	Drum Accumulation Area	94575211SL	SS 7	2'	8270	10/10/1994	Soil	2	U		2
4-NITROPHENOL	SVOC	Drum Accumulation Area	94575212SL	SS 6	2'	8270	10/10/1994	Soil	2	U		2
4-NITROPHENOL	SVOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8270	10/10/1994	Soil	3	U		3
4-NITROPHENOL	SVOC	Drum Accumulation Area	94575215SL	SS 4	2'	8270	10/10/1994	Soil	2	U		2
4-NITROPHENOL	SVOC	Drum Accumulation Area	94575216SL	SS 3	2'	8270	10/10/1994	Soil	2	U		2
4-NITROPHENOL	SVOC	Drum Accumulation Area	94575217SL	SS 2	2'	8270	10/10/1994	Soil	2	U		2
4-NITROPHENOL	SVOC	Drum Accumulation Area	94575218SL	SS 1	2'	8270	10/10/1994	Soil	2	U		2
4-NITROPHENOL	SVOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8270	11/03/1994	Soil	2	U		2
4-NITROPHENOL	SVOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8270	11/03/1994	Soil	2	U		2
4-NITROPHENOL	SVOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8270	11/07/1994	Soil	2	U		2
4-NITROPHENOL	SVOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8270	11/09/1994	Soil	2	U		2
4-NITROPHENOL	SVOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8270	11/11/1994	Soil	2	U		2
4-NITROPHENOL	SVOC	965752BH01	96575225SL	AP-3785	5	8270	10/02/1996	Soil	0.08	U	0.08	0.08
4-NITROPHENOL	SVOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8270	10/03/1996	Soil	0.2	U	0.2	0.2
4-NITROPHENOL	SVOC	965752BH03	96575233SL	AP-3787	5	8270	10/03/1996	Soil	0.08	U	0.08	0.08
4-NITROPHENOL	SVOC	965752BH04	96575238SL	AP-3788	2.5	8270	10/03/1996	Soil	0.08	U	0.08	0.08
4-NITROPHENOL	SVOC	965752BH04	96575239SL-AVG	AP-3788	5	8270	10/03/1996	Soil	0.08	U	0.08	0.08
4-NITROPHENOL	SVOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8270	10/06/1994	Soil	2	U		2
4-NITROPHENOL	SVOC	Drum Accumulation Area	94575203SL	SS 2	6"	8270	10/06/1994	Soil	2	U		2
4-NITROPHENOL	SVOC	Drum Accumulation Area	94575204SL	SS 3	6"	8270	10/06/1994	Soil	2	U		2
4-NITROPHENOL	SVOC	Drum Accumulation Area	94575205SL	SS 4	6"	8270	10/06/1994	Soil	2	U		2
4-NITROPHENOL	SVOC	Drum Accumulation Area	94575206SL	SS 5	6"	8270	10/06/1994	Soil	2	U		2
4-NITROPHENOL	SVOC	Drum Accumulation Area	94575207SL	SS 6	6"	8270	10/06/1994	Soil	2	U		2
4-NITROPHENOL	SVOC	Drum Accumulation Area	94575208SL	SS 7	6"	8270	10/06/1994	Soil	2	U		2
4-NITROPHENOL	SVOC	Drum Accumulation Area	94575209SL	SS 8	6"	8270	10/06/1994	Soil	2	U		2
4-NITROPHENOL	SVOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8270	11/03/1994	Soil	4	U		4
4-NITROPHENOL	SVOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8270	11/03/1994	Soil	4	U		4
4-NITROPHENOL	SVOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8270	11/07/1994	Soil	2	U		2
4-NITROPHENOL	SVOC	Cooling Pond	94575231SL	AP-3503	0-6'	8270	11/08/1994	Soil	2	U		2
4-NITROPHENOL	SVOC	Cooling Pond	94575235SL	AP-3504	0-2'	8270	11/09/1994	Soil	2	U		2

TABLE A-1
Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
4-NITROPHENOL	SVOC	965752BH03	96575230SL	AP-3787	0	8270	10/03/1996	Soil	0.08	U	0.08	2
4-NITROPHENOL	SVOC	965752BH04	96575236SL-AVG	AP-3788	0	8270	10/03/1996	Soil	0.08	U	0.08	2
ACENAPHTHENE	SVOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
ACENAPHTHENE	SVOC	Cooling Pond	94575242SD	SD-B	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
ACENAPHTHENE	SVOC	Cooling Pond	94575243SD	SD-C	0-6"	8270	12/08/1994	Sediment	4	U		4
ACENAPHTHENE	SVOC	Cooling Pond	94575244SD	SD-D	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
ACENAPHTHENE	SVOC	Cooling Pond	94575245SD	SD-E	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
ACENAPHTHENE	SVOC	Cooling Pond	94575246SD	SD-F	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
ACENAPHTHENE	SVOC	Cooling Pond	94575247SD	SD-G	0-6"	8270	12/08/1994	Sediment	0.8	U		0.8
ACENAPHTHENE	SVOC	Cooling Pond	94575248SD	SD-H	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
ACENAPHTHENE	SVOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8270	09/25/1996	Sediment	0.5	U	0.5	3
ACENAPHTHENE	SVOC	119 ft from DP	96575205SD	96-SD5	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7
ACENAPHTHENE	SVOC	147 ft from DP	96575206SD	96-SD6	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
ACENAPHTHENE	SVOC	165 ft from DP	96575208SD	96-SD8	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
ACENAPHTHENE	SVOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
ACENAPHTHENE	SVOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8270	09/25/1996	Sediment	0.1	U	0.1	0.7
ACENAPHTHENE	SVOC	40 ft from DP	96575202SD	96-SD2	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7
ACENAPHTHENE	SVOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7
ACENAPHTHENE	SVOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
ACENAPHTHENE	SVOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8270	09/26/1996	Sediment	0.2	U	0.2	1.2
ACENAPHTHENE	SVOC	Downstream end of 35-752 pond	975752007SD-AVG	96-SD007	0	SIM	10/21/1997	Sediment	0.0225	=	0.0005	0.005
ACENAPHTHENE	SVOC	Drum Accumulation Area	94575210SL	SS 8	2'	8270	10/06/1994	Soil	0.3	U		0.3
ACENAPHTHENE	SVOC	Drum Accumulation Area	94575211SL	SS 7	2'	8270	10/10/1994	Soil	0.3	U		0.3
ACENAPHTHENE	SVOC	Drum Accumulation Area	94575212SL	SS 6	2'	8270	10/10/1994	Soil	0.3	U		0.3
ACENAPHTHENE	SVOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8270	10/10/1994	Soil	0.5	U		0.5
ACENAPHTHENE	SVOC	Drum Accumulation Area	94575215SL	SS 4	2'	8270	10/10/1994	Soil	0.3	U		0.3
ACENAPHTHENE	SVOC	Drum Accumulation Area	94575216SL	SS 3	2'	8270	10/10/1994	Soil	0.3	U		0.3
ACENAPHTHENE	SVOC	Drum Accumulation Area	94575217SL	SS 2	2'	8270	10/10/1994	Soil	0.3	U		0.3
ACENAPHTHENE	SVOC	Drum Accumulation Area	94575218SL	SS 1	2'	8270	10/10/1994	Soil	0.3	U		0.3
ACENAPHTHENE	SVOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8270	11/03/1994	Soil	0.3	U		0.3
ACENAPHTHENE	SVOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8270	11/03/1994	Soil	0.3	U		0.3
ACENAPHTHENE	SVOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8270	11/07/1994	Soil	0.3	U		0.3
ACENAPHTHENE	SVOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8270	11/09/1994	Soil	0.3	U		0.3
ACENAPHTHENE	SVOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8270	11/11/1994	Soil	0.3	U		0.3
ACENAPHTHENE	SVOC	965752BH01	96575225SL	AP-3785	5	8270	10/02/1996	Soil	0.05	U	0.05	0.05
ACENAPHTHENE	SVOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8270	10/03/1996	Soil	0.1	U	0.1	0.1
ACENAPHTHENE	SVOC	965752BH03	96575233SL	AP-3787	5	8270	10/03/1996	Soil	0.05	U	0.05	0.05
ACENAPHTHENE	SVOC	965752BH04	96575238SL	AP-3788	2.5	8270	10/03/1996	Soil	0.05	U	0.05	0.05
ACENAPHTHENE	SVOC	965752BH04	96575239SL-AVG	AP-3788	5	8270	10/03/1996	Soil	0.05	U	0.05	0.05
ACENAPHTHENE	SVOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8270	10/06/1994	Soil	0.3	U		0.3
ACENAPHTHENE	SVOC	Drum Accumulation Area	94575203SL	SS 2	6"	8270	10/06/1994	Soil	0.3	U		0.3
ACENAPHTHENE	SVOC	Drum Accumulation Area	94575204SL	SS 3	6"	8270	10/06/1994	Soil	0.3	U		0.3
ACENAPHTHENE	SVOC	Drum Accumulation Area	94575205SL	SS 4	6"	8270	10/06/1994	Soil	0.3	U		0.3
ACENAPHTHENE	SVOC	Drum Accumulation Area	94575206SL	SS 5	6"	8270	10/06/1994	Soil	0.3	U		0.3
ACENAPHTHENE	SVOC	Drum Accumulation Area	94575207SL	SS 6	6"	8270	10/06/1994	Soil	0.3	U		0.3
ACENAPHTHENE	SVOC	Drum Accumulation Area	94575208SL	SS 7	6"	8270	10/06/1994	Soil	0.3	U		0.3
ACENAPHTHENE	SVOC	Drum Accumulation Area	94575209SL	SS 8	6"	8270	10/06/1994	Soil	0.3	U		0.3
ACENAPHTHENE	SVOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8270	11/03/1994	Soil	0.6	U		0.6
ACENAPHTHENE	SVOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8270	11/03/1994	Soil	0.6	U		0.6
ACENAPHTHENE	SVOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8270	11/07/1994	Soil	0.3	U		0.3
ACENAPHTHENE	SVOC	Cooling Pond	94575231SL	AP-3503	0-6'	8270	11/08/1994	Soil	0.3	U		0.3
ACENAPHTHENE	SVOC	Cooling Pond	94575235SL	AP-3504	0-2'	8270	11/09/1994	Soil	0.3	U		0.3
ACENAPHTHENE	SVOC	965752BH03	96575230SL	AP-3787	0	8270	10/03/1996	Soil	0.05	U	0.05	0.3
ACENAPHTHENE	SVOC	965752BH04	96575236SL-AVG	AP-3788	0	8270	10/03/1996	Soil	0.05	U	0.05	0.3
ACENAPHTHYLENE	SVOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
ACENAPHTHYLENE	SVOC	Cooling Pond	94575242SD	SD-B	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
ACENAPHTHYLENE	SVOC	Cooling Pond	94575243SD	SD-C	0-6"	8270	12/08/1994	Sediment	4	U		4
ACENAPHTHYLENE	SVOC	Cooling Pond	94575244SD	SD-D	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
ACENAPHTHYLENE	SVOC	Cooling Pond	94575245SD	SD-E	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
ACENAPHTHYLENE	SVOC	Cooling Pond	94575246SD	SD-F	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
ACENAPHTHYLENE	SVOC	Cooling Pond	94575247SD	SD-G	0-6"	8270	12/08/1994	Sediment	0.8	U		0.8
ACENAPHTHYLENE	SVOC	Cooling Pond	94575248SD	SD-H	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
ACENAPHTHYLENE	SVOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8270	09/25/1996	Sediment	0.5	U	0.5	3
ACENAPHTHYLENE	SVOC	119 ft from DP	96575205SD	96-SD5	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7
ACENAPHTHYLENE	SVOC	147 ft from DP	96575206SD	96-SD6	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
ACENAPHTHYLENE	SVOC	165 ft from DP	96575208SD	96-SD8	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
ACENAPHTHYLENE	SVOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
ACENAPHTHYLENE	SVOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8270	09/25/1996	Sediment	0.1	U	0.1	0.7
ACENAPHTHYLENE	SVOC	40 ft from DP	96575202SD	96-SD2	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7
ACENAPHTHYLENE	SVOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7
ACENAPHTHYLENE	SVOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
ACENAPHTHYLENE	SVOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8270	09/26/1996	Sediment	0.2	U	0.2	1.2
ACENAPHTHYLENE	SVOC	Downstream end of 35-752 pond	975752007SD-AVG	96-SD007	0	SIM	10/21/1997	Sediment	0.0115	=	0.0002	0.005
ACENAPHTHYLENE	SVOC	Drum Accumulation Area	94575210SL	SS 8	2'	8270	10/06/1994	Soil	0.3	U		0.3
ACENAPHTHYLENE	SVOC	Drum Accumulation Area	94575211SL	SS 7	2'	8270	10/10/1994	Soil	0.3	U		0.3
ACENAPHTHYLENE	SVOC	Drum Accumulation Area	94575212SL	SS 6	2'	8270	10/10/1994	Soil	0.3	U		0.3
ACENAPHTHYLENE	SVOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8270	10/10/1994	Soil	0.5	U		0.5
ACENAPHTHYLENE	SVOC	Drum Accumulation Area	94575215SL	SS 4	2'	8270	10/10/1994	Soil	0.3	U		0.3
ACENAPHTHYLENE	SVOC	Drum Accumulation Area	94575216SL	SS 3	2'	8270	10/10/1994	Soil	0.3	U		0.3
ACENAPHTHYLENE	SVOC	Drum Accumulation Area	94575217SL	SS 2	2'	8270	10/10/1994	Soil	0.3	U		0.3
ACENAPHTHYLENE	SVOC	Drum Accumulation Area	94575218SL	SS 1	2'	8270	10/10/1994	Soil	0.3	U		0.3
ACENAPHTHYLENE	SVOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8270	11/03/1994	Soil	0.3	U		0.3
ACENAPHTHYLENE	SVOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8270	11/03/1994	Soil	0.3	U		0.3
ACENAPHTHYLENE	SVOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8270	11/07/1994	Soil	0.3	U		0.3
ACENAPHTHYLENE	SVOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8270	11/09/1994	Soil	0.3	U		0.3
ACENAPHTHYLENE	SVOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8270	11/11/1994	Soil	0.3	U		0.3
ACENAPHTHYLENE	SVOC	965752BH01	96575225SL	AP-3785	5	8270	10/02/1996	Soil	0.05	U	0.05	0.05
ACENAPHTHYLENE	SVOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8270	10/03/1996	Soil	0.1	U	0.1	0.1
ACENAPHTHYLENE	SVOC	965752BH03	96575233SL	AP-3787	5	8270	10/03/1996	Soil	0.05	U	0.05	0.05
ACENAPHTHYLENE	SVOC	965752BH04	96575238SL	AP-3788	2.5	8270	10/03/1996	Soil	0.05	U	0.05	0.05
ACENAPHTHYLENE	SVOC	965752BH04	96575239SL-AVG	AP-3788	5	8270	10/03/1996	Soil	0.05	U	0.05	0.05
ACENAPHTHYLENE	SVOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8270	10/06/1994	Soil	0.3	U		0.3
ACENAPHTHYLENE	SVOC	Drum Accumulation Area	94575203SL	SS 2	6"	8270	10/06/1994	Soil	0.3	U		0.3
ACENAPHTHYLENE	SVOC	Drum Accumulation Area	94575204SL	SS 3	6"	8270	10/06/1994	Soil	0.3	U		0.3
ACENAPHTHYLENE	SVOC	Drum Accumulation Area	94575205SL	SS 4	6"	8270	10/06/1994	Soil	0.3	U		0.3
ACENAPHTHYLENE	SVOC	Drum Accumulation Area	94575206SL	SS 5	6"	8270	10/06/1994	Soil	0.3	U		0.3
ACENAPHTHYLENE	SVOC	Drum Accumulation Area	94575207SL	SS 6	6"	8270	10/06/1994	Soil	0.3	U		0.3
ACENAPHTHYLENE	SVOC	Drum Accumulation Area	94575208SL	SS 7	6"	8270	10/06/1994	Soil	0.3	U		0.3
ACENAPHTHYLENE	SVOC	Drum Accumulation Area	94575209SL	SS 8	6"	8270	10/06/1994	Soil	0.3	U		0.3
ACENAPHTHYLENE	SVOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8270	11/03/1994	Soil	0.6	U		0.6
ACENAPHTHYLENE	SVOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8270	11/03/1994	Soil	0.6	U		0.6
ACENAPHTHYLENE	SVOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8270	11/07/1994	Soil	0.3	U		0.3
ACENAPHTHYLENE	SVOC	Cooling Pond	94575231SL	AP-3503	0-6'	8270	11/08/1994	Soil	0.3	U		0.3
ACENAPHTHYLENE	SVOC	Cooling Pond	94575235SL	AP-3504	0-2'	8270	11/09/1994	Soil	0.3	U		0.3
ACENAPHTHYLENE	SVOC	965752BH03	96575230SL	AP-3787	0	8270	10/03/1996	Soil	0.05	U	0.05	0.3
ACENAPHTHYLENE	SVOC	965752BH04	96575236SL-AVG	AP-3788	0	8270	10/03/1996	Soil	0.05	U	0.05	0.3
ACETONE	VOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8260	12/08/1994	Sediment	0.165	=		0.05
ACETONE	VOC	Cooling Pond	94575242SD	SD-B	0-6"	8260	12/08/1994	Sediment	0.19	=		0.05
ACETONE	VOC	Cooling Pond	94575243SD	SD-C	0-6"	8260	12/08/1994	Sediment	0.42	=		0.05
ACETONE	VOC	Cooling Pond	94575244SD	SD-D	0-6"	8260	12/08/1994	Sediment	0.21	=		0.05
ACETONE	VOC	Cooling Pond	94575245SD	SD-E	0-6"	8260	12/08/1994	Sediment	0.24	=		0.05
ACETONE	VOC	Cooling Pond	94575246SD	SD-F	0-6"	8260	12/08/1994	Sediment	0.11	=		0.05
ACETONE	VOC	Cooling Pond	94575247SD	SD-G	0-6"	8260	12/08/1994	Sediment	0.18	=		0.05
ACETONE	VOC	Cooling Pond	94575248SD	SD-H	0-6"	8260	12/08/1994	Sediment	0.23	=		0.05
ACETONE	VOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8260	09/25/1996	Sediment	0.15	J	0.06	0.1
ACETONE	VOC	119 ft from DP	96575205SD	96-SD5	----	8260	09/25/1996	Sediment	0.24	=	0.06	0.1
ACETONE	VOC	147 ft from DP	96575206SD	96-SD6	----	8260	09/25/1996	Sediment	0.051	=	0.03	0.05
ACETONE	VOC	165 ft from DP	96575208SD	96-SD8	----	8260	09/25/1996	Sediment	0.1	=	0.03	0.05
ACETONE	VOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8260	09/25/1996	Sediment	0.086	=	0.03	0.05
ACETONE	VOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8260	09/25/1996	Sediment	0.09	U	0.09	0.15
ACETONE	VOC	40 ft from DP	96575202SD	96-SD2	----	8260	09/25/1996	Sediment	0.14	=	0.06	0.1
ACETONE	VOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8260	09/25/1996	Sediment	0.13	=	0.06	0.1
ACETONE	VOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8260	09/25/1996	Sediment	0.03	U	0.03	0.05
ACETONE	VOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8260	09/26/1996	Sediment	0.35	J	0.06	0.1

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
ACETONE	VOC	Drum Accumulation Area	94575210SL	SS 8	2'	8260	10/06/1994	Soil	0.05	U		0.05
ACETONE	VOC	Drum Accumulation Area	94575211SL	SS 7	2'	8260	10/10/1994	Soil	0.05	U		0.05
ACETONE	VOC	Drum Accumulation Area	94575212SL	SS 6	2'	8260	10/10/1994	Soil	0.05	U		0.05
ACETONE	VOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8260	10/10/1994	Soil	0.05	U		0.05
ACETONE	VOC	Drum Accumulation Area	94575215SL	SS 4	2'	8260	10/10/1994	Soil	0.05	U		0.05
ACETONE	VOC	Drum Accumulation Area	94575216SL	SS 3	2'	8260	10/10/1994	Soil	0.05	U		0.05
ACETONE	VOC	Drum Accumulation Area	94575217SL	SS 2	2'	8260	10/10/1994	Soil	0.05	U		0.05
ACETONE	VOC	Drum Accumulation Area	94575218SL	SS 1	2'	8260	10/10/1994	Soil	0.05	U		0.05
ACETONE	VOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8260	11/03/1994	Soil	0.05	U		0.05
ACETONE	VOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8260	11/03/1994	Soil	0.05	U		0.05
ACETONE	VOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8260	11/07/1994	Soil	0.05	U		0.05
ACETONE	VOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8260	11/09/1994	Soil	0.05	U		0.05
ACETONE	VOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8260	11/11/1994	Soil	0.059	=		0.05
ACETONE	VOC	965752BH01	96575225SL	AP-3785	5	8260	10/02/1996	Soil	0.03	U	0.03	0.03
ACETONE	VOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8260	10/03/1996	Soil	0.03	U	0.03	0.03
ACETONE	VOC	965752BH04	96575238SL	AP-3788	2.5	8260	10/03/1996	Soil	0.03	U	0.03	0.03
ACETONE	VOC	965752BH04	96575239SL-AVG	AP-3788	5	8260	10/03/1996	Soil	0.03	U	0.03	0.03
ACETONE	VOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8260	10/06/1994	Soil	0.05	U		0.05
ACETONE	VOC	Drum Accumulation Area	94575203SL	SS 2	6"	8260	10/06/1994	Soil	0.05	U		0.05
ACETONE	VOC	Drum Accumulation Area	94575204SL	SS 3	6"	8260	10/06/1994	Soil	0.05	U		0.05
ACETONE	VOC	Drum Accumulation Area	94575205SL	SS 4	6"	8260	10/06/1994	Soil	0.05	U		0.05
ACETONE	VOC	Drum Accumulation Area	94575206SL	SS 5	6"	8260	10/06/1994	Soil	0.05	U		0.05
ACETONE	VOC	Drum Accumulation Area	94575207SL	SS 6	6"	8260	10/06/1994	Soil	0.05	U		0.05
ACETONE	VOC	Drum Accumulation Area	94575208SL	SS 7	6"	8260	10/06/1994	Soil	0.05	U		0.05
ACETONE	VOC	Drum Accumulation Area	94575209SL	SS 8	6"	8260	10/06/1994	Soil	0.05	U		0.05
ACETONE	VOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8260	11/03/1994	Soil	0.05	U		0.05
ACETONE	VOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8260	11/03/1994	Soil	0.05	U		0.05
ACETONE	VOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8260	11/07/1994	Soil	0.565	=		0.05
ACETONE	VOC	Cooling Pond	94575231SL	AP-3503	0-6'	8260	11/08/1994	Soil	0.05	U		0.05
ACETONE	VOC	Cooling Pond	94575235SL	AP-3504	0-2'	8260	11/09/1994	Soil	0.05	U		0.05
ACETONE	VOC	965752BH03	96575230SL	AP-3787	0	8260	10/03/1996	Soil	0.03	U	0.03	0.05
ACETONE	VOC	965752BH04	96575236SL-AVG	AP-3788	0	8260	10/03/1996	Soil	0.0705	=	0.03	0.05
ALDRIN	PEST/PCB	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
ALDRIN	PEST/PCB	Cooling Pond	94575242SD	SD-B	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
ALDRIN	PEST/PCB	Cooling Pond	94575243SD	SD-C	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
ALDRIN	PEST/PCB	Cooling Pond	94575244SD	SD-D	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
ALDRIN	PEST/PCB	Cooling Pond	94575245SD	SD-E	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
ALDRIN	PEST/PCB	Cooling Pond	94575246SD	SD-F	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
ALDRIN	PEST/PCB	Cooling Pond	94575247SD	SD-G	0-6"	8080	12/08/1994	Sediment	0.02	U		0.02
ALDRIN	PEST/PCB	Cooling Pond	94575248SD	SD-H	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
ALDRIN	PEST/PCB	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8080	09/25/1996	Sediment	0.003	J	0.0008	0.02
ALDRIN	PEST/PCB	119 ft from DP	96575205SD	96-SD5	----	8080	09/25/1996	Sediment	0.0008	U	0.0008	0.02
ALDRIN	PEST/PCB	147 ft from DP	96575206SD	96-SD6	----	8080	09/25/1996	Sediment	0.0004	U	0.0004	0.01
ALDRIN	PEST/PCB	165 ft from DP	96575208SD	96-SD8	----	8080	09/25/1996	Sediment	0.0007	J	0.0004	0.01
ALDRIN	PEST/PCB	171 ft from DP (east side)	96575209SD	96-SD9	----	8080	09/25/1996	Sediment	0.001	J	0.0004	0.01
ALDRIN	PEST/PCB	171 ft from DP (west side)	96575207SD	96-SD7	----	8080	09/25/1996	Sediment	0.002	J	0.0008	0.02
ALDRIN	PEST/PCB	40 ft from DP	96575202SD	96-SD2	----	8080	09/25/1996	Sediment	0.0008	U	0.0008	0.02
ALDRIN	PEST/PCB	79 ft from DP	96575203SD-AVG	96-SD3	----	8080	09/25/1996	Sediment	0.0008	U	0.0008	0.02
ALDRIN	PEST/PCB	Discharge pipe (DP)	96575201SD	96-SD1	----	8080	09/25/1996	Sediment	0.0008	J	0.0004	0.01
ALDRIN	PEST/PCB	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8080	09/26/1996	Sediment	0.003	J	0.0008	0.02
ALDRIN	PEST/PCB	Downstream end of 35-752 pond	975752007SD-AVG	96-SD007	0	SW8081	10/21/1997	Sediment	0.0004	U	0.0004	0.02
ALDRIN	PEST/PCB	Drum Accumulation Area	94575210SL	SS 8	2'	8080	10/06/1994	Soil	0.01	U		0.01
ALDRIN	PEST/PCB	Drum Accumulation Area	94575211SL	SS 7	2'	8080	10/10/1994	Soil	0.01	U		0.01
ALDRIN	PEST/PCB	Drum Accumulation Area	94575212SL	SS 6	2'	8080	10/10/1994	Soil	0.01	U		0.01
ALDRIN	PEST/PCB	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8080	10/10/1994	Soil	0.01	U		0.01
ALDRIN	PEST/PCB	Drum Accumulation Area	94575215SL	SS 4	2'	8080	10/10/1994	Soil	0.01	U		0.01
ALDRIN	PEST/PCB	Drum Accumulation Area	94575216SL	SS 3	2'	8080	10/10/1994	Soil	0.01	U		0.01
ALDRIN	PEST/PCB	Drum Accumulation Area	94575217SL	SS 2	2'	8080	10/10/1994	Soil	0.01	U		0.01
ALDRIN	PEST/PCB	Drum Accumulation Area	94575218SL	SS 1	2'	8080	10/10/1994	Soil	0.01	U		0.01
ALDRIN	PEST/PCB	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8080	11/03/1994	Soil	0.01	U		0.01
ALDRIN	PEST/PCB	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8080	11/03/1994	Soil	0.01	U		0.01
ALDRIN	PEST/PCB	Cooling Pond	94575229SL	AP-3502	4'-6'	8080	11/07/1994	Soil	0.01	U		0.01

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
ALDRIN	PEST/PCB	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8080	11/09/1994	Soil	0.01	U		0.01
ALDRIN	PEST/PCB	Cooling Pond	94575240SL	AP-3501	5'-7'	8080	11/11/1994	Soil	0.01	U		0.01
ALDRIN	PEST/PCB	965752BH01	96575225SL	AP-3785	5	8080	10/02/1996	Soil	0.0004	U	0.0004	0.0004
ALDRIN	PEST/PCB	965752BH03	96575231SL-AVG	AP-3787	2.5	8080	10/03/1996	Soil	0.0004	U	0.0004	0.0004
ALDRIN	PEST/PCB	965752BH03	96575233SL	AP-3787	5	8080	10/03/1996	Soil	0.0004	U	0.0004	0.0004
ALDRIN	PEST/PCB	965752BH04	96575238SL	AP-3788	2.5	8080	10/03/1996	Soil	0.0004	U	0.0004	0.0004
ALDRIN	PEST/PCB	965752BH04	96575239SL-AVG	AP-3788	5	8080	10/03/1996	Soil	0.0004	U	0.0004	0.0004
ALDRIN	PEST/PCB	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8080	10/06/1994	Soil	0.01	U		0.01
ALDRIN	PEST/PCB	Drum Accumulation Area	94575203SL	SS 2	6"	8080	10/06/1994	Soil	0.01	U		0.01
ALDRIN	PEST/PCB	Drum Accumulation Area	94575204SL	SS 3	6"	8080	10/06/1994	Soil	0.01	U		0.01
ALDRIN	PEST/PCB	Drum Accumulation Area	94575205SL	SS 4	6"	8080	10/06/1994	Soil	0.01	U		0.01
ALDRIN	PEST/PCB	Drum Accumulation Area	94575206SL	SS 5	6"	8080	10/06/1994	Soil	0.01	U		0.01
ALDRIN	PEST/PCB	Drum Accumulation Area	94575207SL	SS 6	6"	8080	10/06/1994	Soil	0.01	U		0.01
ALDRIN	PEST/PCB	Drum Accumulation Area	94575208SL	SS 7	6"	8080	10/06/1994	Soil	0.01	U		0.01
ALDRIN	PEST/PCB	Drum Accumulation Area	94575209SL	SS 8	6"	8080	10/06/1994	Soil	0.01	U		0.01
ALDRIN	PEST/PCB	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8080	11/03/1994	Soil	0.01	U		0.01
ALDRIN	PEST/PCB	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8080	11/03/1994	Soil	0.01	U		0.01
ALDRIN	PEST/PCB	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8080	11/07/1994	Soil	0.01	U		0.01
ALDRIN	PEST/PCB	Cooling Pond	94575231SL	AP-3503	0-6'	8080	11/08/1994	Soil	0.01	U		0.01
ALDRIN	PEST/PCB	Cooling Pond	94575235SL	AP-3504	0-2'	8080	11/09/1994	Soil	0.01	U		0.01
ALDRIN	PEST/PCB	965752BH03	96575230SL	AP-3787	0	8080	10/03/1996	Soil	0.0004	U	0.0004	0.01
ALDRIN	PEST/PCB	965752BH04	96575236SL-AVG	AP-3788	0	8080	10/03/1996	Soil	0.0004	U	0.0004	0.01
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Cooling Pond	94575242SD	SD-B	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Cooling Pond	94575243SD	SD-C	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Cooling Pond	94575244SD	SD-D	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Cooling Pond	94575245SD	SD-E	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Cooling Pond	94575246SD	SD-F	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Cooling Pond	94575247SD	SD-G	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Cooling Pond	94575248SD	SD-H	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	PEST/PCB	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8080	09/25/1996	Sediment	0.002	U	0.002	0.02
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	PEST/PCB	119 ft from DP	96575205SD	96-SD5	----	8080	09/25/1996	Sediment	0.002	U	0.002	0.02
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	PEST/PCB	147 ft from DP	96575206SD	96-SD6	----	8080	09/25/1996	Sediment	0.0006	U	0.0006	0.01
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	PEST/PCB	165 ft from DP	96575208SD	96-SD8	----	8080	09/25/1996	Sediment	0.0006	U	0.0006	0.01
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	PEST/PCB	171 ft from DP (east side)	96575209SD	96-SD9	----	8080	09/25/1996	Sediment	0.0006	U	0.0006	0.01
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	PEST/PCB	171 ft from DP (west side)	96575207SD	96-SD7	----	8080	09/25/1996	Sediment	0.002	U	0.002	0.02
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	PEST/PCB	40 ft from DP	96575202SD	96-SD2	----	8080	09/25/1996	Sediment	0.002	U	0.002	0.02
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	PEST/PCB	79 ft from DP	96575203SD-AVG	96-SD3	----	8080	09/25/1996	Sediment	0.002	U	0.002	0.02
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Discharge pipe (DP)	96575201SD	96-SD1	----	8080	09/25/1996	Sediment	0.0006	U	0.0006	0.01
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	PEST/PCB	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8080	09/26/1996	Sediment	0.002	U	0.002	0.02
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Downstream end of 35-752 pond	975752007SD-AVG	96-SD007	0	SW8081	10/21/1997	Sediment	0.0006	U	0.0006	0.02
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Drum Accumulation Area	94575210SL	SS 8	2'	8080	10/06/1994	Soil	0.01	U		0.01
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Drum Accumulation Area	94575211SL	SS 7	2'	8080	10/10/1994	Soil	0.01	U		0.01
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Drum Accumulation Area	94575212SL	SS 6	2'	8080	10/10/1994	Soil	0.01	U		0.01
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8080	10/10/1994	Soil	0.01	U		0.01
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Drum Accumulation Area	94575215SL	SS 4	2'	8080	10/10/1994	Soil	0.01	U		0.01
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Drum Accumulation Area	94575216SL	SS 3	2'	8080	10/10/1994	Soil	0.01	U		0.01
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Drum Accumulation Area	94575217SL	SS 2	2'	8080	10/10/1994	Soil	0.01	U		0.01
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Drum Accumulation Area	94575218SL	SS 1	2'	8080	10/10/1994	Soil	0.01	U		0.01
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8080	11/03/1994	Soil	0.01	U		0.01
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8080	11/03/1994	Soil	0.01	U		0.01
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Cooling Pond	94575229SL	AP-3502	4'-6'	8080	11/07/1994	Soil	0.01	U		0.01
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8080	11/09/1994	Soil	0.01	U		0.01
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Cooling Pond	94575240SL	AP-3501	5'-7'	8080	11/11/1994	Soil	0.01	U		0.01
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	PEST/PCB	965752BH01	96575225SL	AP-3785	5	8080	10/02/1996	Soil	0.0006	U	0.0006	0.0006
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	PEST/PCB	965752BH03	96575231SL-AVG	AP-3787	2.5	8080	10/03/1996	Soil	0.0006	U	0.0006	0.0006
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	PEST/PCB	965752BH03	96575233SL	AP-3787	5	8080	10/03/1996	Soil	0.0006	U	0.0006	0.0006
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	PEST/PCB	965752BH04	96575238SL	AP-3788	2.5	8080	10/03/1996	Soil	0.0006	U	0.0006	0.0006
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	PEST/PCB	965752BH04	96575239SL-AVG	AP-3788	5	8080	10/03/1996	Soil	0.0006	U	0.0006	0.0006
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8080	10/06/1994	Soil	0.01	U		0.01
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Drum Accumulation Area	94575203SL	SS 2	6"	8080	10/06/1994	Soil	0.01	U		0.01
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Drum Accumulation Area	94575204SL	SS 3	6"	8080	10/06/1994	Soil	0.01	U		0.01

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Drum Accumulation Area	94575205SL	SS 4	6"	8080	10/06/1994	Soil	0.01	U		0.01
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Drum Accumulation Area	94575206SL	SS 5	6"	8080	10/06/1994	Soil	0.01	U		0.01
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Drum Accumulation Area	94575207SL	SS 6	6"	8080	10/06/1994	Soil	0.01	U		0.01
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Drum Accumulation Area	94575208SL	SS 7	6"	8080	10/06/1994	Soil	0.01	U		0.01
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Drum Accumulation Area	94575209SL	SS 8	6"	8080	10/06/1994	Soil	0.01	U		0.01
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8080	11/03/1994	Soil	0.01	U		0.01
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8080	11/03/1994	Soil	0.01	U		0.01
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8080	11/07/1994	Soil	0.01	U		0.01
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Cooling Pond	94575231SL	AP-3503	0-6'	8080	11/08/1994	Soil	0.01	U		0.01
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Cooling Pond	94575235SL	AP-3504	0-2'	8080	11/09/1994	Soil	0.01	U		0.01
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	PEST/PCB	965752BH03	96575230SL	AP-3787	0	8080	10/03/1996	Soil	0.0006	U	0.0006	0.01
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	PEST/PCB	965752BH04	96575236SL-AVG	AP-3788	0	8080	10/03/1996	Soil	0.0006	U	0.0006	0.01
ALPHA ENDOSULFAN	PEST/PCB	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
ALPHA ENDOSULFAN	PEST/PCB	Cooling Pond	94575242SD	SD-B	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
ALPHA ENDOSULFAN	PEST/PCB	Cooling Pond	94575243SD	SD-C	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
ALPHA ENDOSULFAN	PEST/PCB	Cooling Pond	94575244SD	SD-D	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
ALPHA ENDOSULFAN	PEST/PCB	Cooling Pond	94575245SD	SD-E	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
ALPHA ENDOSULFAN	PEST/PCB	Cooling Pond	94575246SD	SD-F	0-6"	8080	12/08/1994	Sediment	0.1	U		0.1
ALPHA ENDOSULFAN	PEST/PCB	Cooling Pond	94575247SD	SD-G	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
ALPHA ENDOSULFAN	PEST/PCB	Cooling Pond	94575248SD	SD-H	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
ALPHA ENDOSULFAN	PEST/PCB	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8080	09/25/1996	Sediment	0.0006	U	0.0006	0.02
ALPHA ENDOSULFAN	PEST/PCB	119 ft from DP	96575205SD	96-SD5	----	8080	09/25/1996	Sediment	0.0006	U	0.0006	0.02
ALPHA ENDOSULFAN	PEST/PCB	147 ft from DP	96575206SD	96-SD6	----	8080	09/25/1996	Sediment	0.0003	U	0.0003	0.01
ALPHA ENDOSULFAN	PEST/PCB	165 ft from DP	96575208SD	96-SD8	----	8080	09/25/1996	Sediment	0.0003	U	0.0003	0.01
ALPHA ENDOSULFAN	PEST/PCB	171 ft from DP (east side)	96575209SD	96-SD9	----	8080	09/25/1996	Sediment	0.0003	U	0.0003	0.01
ALPHA ENDOSULFAN	PEST/PCB	171 ft from DP (west side)	96575207SD	96-SD7	----	8080	09/25/1996	Sediment	0.0006	U	0.0006	0.02
ALPHA ENDOSULFAN	PEST/PCB	40 ft from DP	96575202SD	96-SD2	----	8080	09/25/1996	Sediment	0.0006	U	0.0006	0.02
ALPHA ENDOSULFAN	PEST/PCB	79 ft from DP	96575203SD-AVG	96-SD3	----	8080	09/25/1996	Sediment	0.0006	U	0.0006	0.02
ALPHA ENDOSULFAN	PEST/PCB	Discharge pipe (DP)	96575201SD	96-SD1	----	8080	09/25/1996	Sediment	0.0003	U	0.0003	0.01
ALPHA ENDOSULFAN	PEST/PCB	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8080	09/26/1996	Sediment	0.0006	U	0.0006	0.02
ALPHA ENDOSULFAN	PEST/PCB	Downstream end of 35-752 pond	975752007SD-AVG	96-SD007	0	SW8081	10/21/1997	Sediment	0.01	U	0.01	0.02
ALPHA ENDOSULFAN	PEST/PCB	Drum Accumulation Area	94575210SL	SS 8	2'	8080	10/06/1994	Soil	0.01	U		0.01
ALPHA ENDOSULFAN	PEST/PCB	Drum Accumulation Area	94575211SL	SS 7	2'	8080	10/10/1994	Soil	0.01	U		0.01
ALPHA ENDOSULFAN	PEST/PCB	Drum Accumulation Area	94575212SL	SS 6	2'	8080	10/10/1994	Soil	0.01	U		0.01
ALPHA ENDOSULFAN	PEST/PCB	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8080	10/10/1994	Soil	0.01	U		0.01
ALPHA ENDOSULFAN	PEST/PCB	Drum Accumulation Area	94575215SL	SS 4	2'	8080	10/10/1994	Soil	0.01	U		0.01
ALPHA ENDOSULFAN	PEST/PCB	Drum Accumulation Area	94575216SL	SS 3	2'	8080	10/10/1994	Soil	0.01	U		0.01
ALPHA ENDOSULFAN	PEST/PCB	Drum Accumulation Area	94575217SL	SS 2	2'	8080	10/10/1994	Soil	0.01	U		0.01
ALPHA ENDOSULFAN	PEST/PCB	Drum Accumulation Area	94575218SL	SS 1	2'	8080	10/10/1994	Soil	0.01	U		0.01
ALPHA ENDOSULFAN	PEST/PCB	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8080	11/03/1994	Soil	0.06	U		0.06
ALPHA ENDOSULFAN	PEST/PCB	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8080	11/03/1994	Soil	0.01	U		0.01
ALPHA ENDOSULFAN	PEST/PCB	Cooling Pond	94575229SL	AP-3502	4'-6'	8080	11/07/1994	Soil	0.01	U		0.01
ALPHA ENDOSULFAN	PEST/PCB	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8080	11/09/1994	Soil	0.01	U		0.01
ALPHA ENDOSULFAN	PEST/PCB	Cooling Pond	94575240SL	AP-3501	5'-7'	8080	11/11/1994	Soil	0.03	U		0.03
ALPHA ENDOSULFAN	PEST/PCB	965752BH01	96575225SL	AP-3785	5	8080	10/02/1996	Soil	0.0003	U	0.0003	0.0003
ALPHA ENDOSULFAN	PEST/PCB	965752BH03	96575231SL-AVG	AP-3787	2.5	8080	10/03/1996	Soil	0.0003	U	0.0003	0.0003
ALPHA ENDOSULFAN	PEST/PCB	965752BH03	96575233SL	AP-3787	5	8080	10/03/1996	Soil	0.0003	U	0.0003	0.0003
ALPHA ENDOSULFAN	PEST/PCB	965752BH04	96575238SL	AP-3788	2.5	8080	10/03/1996	Soil	0.0003	U	0.0003	0.0003
ALPHA ENDOSULFAN	PEST/PCB	965752BH04	96575239SL-AVG	AP-3788	5	8080	10/03/1996	Soil	0.0003	U	0.0003	0.0003
ALPHA ENDOSULFAN	PEST/PCB	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8080	10/06/1994	Soil	0.01	U		0.01
ALPHA ENDOSULFAN	PEST/PCB	Drum Accumulation Area	94575203SL	SS 2	6"	8080	10/06/1994	Soil	0.01	U		0.01
ALPHA ENDOSULFAN	PEST/PCB	Drum Accumulation Area	94575204SL	SS 3	6"	8080	10/06/1994	Soil	0.01	U		0.01
ALPHA ENDOSULFAN	PEST/PCB	Drum Accumulation Area	94575205SL	SS 4	6"	8080	10/06/1994	Soil	0.01	U		0.01
ALPHA ENDOSULFAN	PEST/PCB	Drum Accumulation Area	94575206SL	SS 5	6"	8080	10/06/1994	Soil	0.01	U		0.01
ALPHA ENDOSULFAN	PEST/PCB	Drum Accumulation Area	94575207SL	SS 6	6"	8080	10/06/1994	Soil	0.01	U		0.01
ALPHA ENDOSULFAN	PEST/PCB	Drum Accumulation Area	94575208SL	SS 7	6"	8080	10/06/1994	Soil	0.01	U		0.01
ALPHA ENDOSULFAN	PEST/PCB	Drum Accumulation Area	94575209SL	SS 8	6"	8080	10/06/1994	Soil	0.01	U		0.01
ALPHA ENDOSULFAN	PEST/PCB	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8080	11/03/1994	Soil	0.1	U		0.1
ALPHA ENDOSULFAN	PEST/PCB	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8080	11/03/1994	Soil	0.01	U		0.01
ALPHA ENDOSULFAN	PEST/PCB	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8080	11/07/1994	Soil	0.01	U		0.01
ALPHA ENDOSULFAN	PEST/PCB	Cooling Pond	94575231SL	AP-3503	0-6'	8080	11/08/1994	Soil	0.01	U		0.01
ALPHA ENDOSULFAN	PEST/PCB	Cooling Pond	94575235SL	AP-3504	0-2'	8080	11/09/1994	Soil	0.01	U		0.01

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
ALPHA ENDOSULFAN	PEST/PCB	965752BH03	96575230SL	AP-3787	0	8080	10/03/1996	Soil	0.0003	U	0.0003	0.01
ALPHA ENDOSULFAN	PEST/PCB	965752BH04	96575236SL-AVG	AP-3788	0	8080	10/03/1996	Soil	0.0003	U	0.0003	0.01
ALPHA-CHLORDANE	PEST/PCB	Downstream end of 35-752 pond	975752007SD-AVG	96-SD007	0	SW8081	10/21/1997	Sediment	0.01	U	0.01	0.02
ALUMINUM	METAL	Drum Accumulation Area	94575210SL	SS 8	2'	METALS	10/06/1994	Soil	17000	=		10
ALUMINUM	METAL	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	METALS	10/06/1994	Soil	17150	=		10
ALUMINUM	METAL	Drum Accumulation Area	94575203SL	SS 2	6"	METALS	10/06/1994	Soil	13300	=		10
ALUMINUM	METAL	Drum Accumulation Area	94575204SL	SS 3	6"	METALS	10/06/1994	Soil	18700	=		10
ALUMINUM	METAL	Drum Accumulation Area	94575205SL	SS 4	6"	METALS	10/06/1994	Soil	17300	=		10
ALUMINUM	METAL	Drum Accumulation Area	94575206SL	SS 5	6"	METALS	10/06/1994	Soil	8620	=		10
ALUMINUM	METAL	Drum Accumulation Area	94575207SL	SS 6	6"	METALS	10/06/1994	Soil	13300	=		10
ALUMINUM	METAL	Drum Accumulation Area	94575208SL	SS 7	6"	METALS	10/06/1994	Soil	14800	=		10
ALUMINUM	METAL	Drum Accumulation Area	94575209SL	SS 8	6"	METALS	10/06/1994	Soil	16200	=		10
ANILINE (PHENYLAMINE, AMINOBENZENE)	SVOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8270	12/08/1994	Sediment	1	U		1
ANILINE (PHENYLAMINE, AMINOBENZENE)	SVOC	Cooling Pond	94575242SD	SD-B	0-6"	8270	12/08/1994	Sediment	1	U		1
ANILINE (PHENYLAMINE, AMINOBENZENE)	SVOC	Cooling Pond	94575243SD	SD-C	0-6"	8270	12/08/1994	Sediment	12	U		12
ANILINE (PHENYLAMINE, AMINOBENZENE)	SVOC	Cooling Pond	94575244SD	SD-D	0-6"	8270	12/08/1994	Sediment	1	U		1
ANILINE (PHENYLAMINE, AMINOBENZENE)	SVOC	Cooling Pond	94575245SD	SD-E	0-6"	8270	12/08/1994	Sediment	1	U		1
ANILINE (PHENYLAMINE, AMINOBENZENE)	SVOC	Cooling Pond	94575246SD	SD-F	0-6"	8270	12/08/1994	Sediment	1	U		1
ANILINE (PHENYLAMINE, AMINOBENZENE)	SVOC	Cooling Pond	94575247SD	SD-G	0-6"	8270	12/08/1994	Sediment	2.4	U		2.4
ANILINE (PHENYLAMINE, AMINOBENZENE)	SVOC	Cooling Pond	94575248SD	SD-H	0-6"	8270	12/08/1994	Sediment	1	U		1
ANILINE (PHENYLAMINE, AMINOBENZENE)	SVOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8270	09/25/1996	Sediment	0.4	U	0.4	10
ANILINE (PHENYLAMINE, AMINOBENZENE)	SVOC	119 ft from DP	96575205SD	96-SD5	----	8270	09/25/1996	Sediment	0.09	U	0.09	2.3
ANILINE (PHENYLAMINE, AMINOBENZENE)	SVOC	147 ft from DP	96575206SD	96-SD6	----	8270	09/25/1996	Sediment	0.04	U	0.04	1
ANILINE (PHENYLAMINE, AMINOBENZENE)	SVOC	165 ft from DP	96575208SD	96-SD8	----	8270	09/25/1996	Sediment	0.04	U	0.04	1
ANILINE (PHENYLAMINE, AMINOBENZENE)	SVOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8270	09/25/1996	Sediment	0.04	U	0.04	1
ANILINE (PHENYLAMINE, AMINOBENZENE)	SVOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8270	09/25/1996	Sediment	0.08	U	0.08	2.1
ANILINE (PHENYLAMINE, AMINOBENZENE)	SVOC	40 ft from DP	96575202SD	96-SD2	----	8270	09/25/1996	Sediment	0.09	U	0.09	2.3
ANILINE (PHENYLAMINE, AMINOBENZENE)	SVOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8270	09/25/1996	Sediment	0.09	U	0.09	2.3
ANILINE (PHENYLAMINE, AMINOBENZENE)	SVOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8270	09/25/1996	Sediment	0.04	U	0.04	1
ANILINE (PHENYLAMINE, AMINOBENZENE)	SVOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8270	09/26/1996	Sediment	0.2	U	0.2	4
ANILINE (PHENYLAMINE, AMINOBENZENE)	SVOC	Drum Accumulation Area	94575210SL	SS 8	2'	8270	10/06/1994	Soil	1	U		1
ANILINE (PHENYLAMINE, AMINOBENZENE)	SVOC	Drum Accumulation Area	94575211SL	SS 7	2'	8270	10/10/1994	Soil	1	U		1
ANILINE (PHENYLAMINE, AMINOBENZENE)	SVOC	Drum Accumulation Area	94575212SL	SS 6	2'	8270	10/10/1994	Soil	1	U		1
ANILINE (PHENYLAMINE, AMINOBENZENE)	SVOC	Drum Accumulation Area	945752135L-AVG	SS 5	2'	8270	10/10/1994	Soil	1.5	U		1.5
ANILINE (PHENYLAMINE, AMINOBENZENE)	SVOC	Drum Accumulation Area	94575215SL	SS 4	2'	8270	10/10/1994	Soil	1	U		1
ANILINE (PHENYLAMINE, AMINOBENZENE)	SVOC	Drum Accumulation Area	94575216SL	SS 3	2'	8270	10/10/1994	Soil	1	U		1
ANILINE (PHENYLAMINE, AMINOBENZENE)	SVOC	Drum Accumulation Area	94575217SL	SS 2	2'	8270	10/10/1994	Soil	1	U		1
ANILINE (PHENYLAMINE, AMINOBENZENE)	SVOC	Drum Accumulation Area	94575218SL	SS 1	2'	8270	10/10/1994	Soil	1	U		1
ANILINE (PHENYLAMINE, AMINOBENZENE)	SVOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8270	11/03/1994	Soil	1	U		1
ANILINE (PHENYLAMINE, AMINOBENZENE)	SVOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8270	11/03/1994	Soil	1	U		1
ANILINE (PHENYLAMINE, AMINOBENZENE)	SVOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8270	11/07/1994	Soil	1	U		1
ANILINE (PHENYLAMINE, AMINOBENZENE)	SVOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8270	11/09/1994	Soil	1	U		1
ANILINE (PHENYLAMINE, AMINOBENZENE)	SVOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8270	11/11/1994	Soil	1	U		1
ANILINE (PHENYLAMINE, AMINOBENZENE)	SVOC	965752BH01	96575225SL	AP-3785	5	8270	10/02/1996	Soil	0.04	U	0.04	0.04
ANILINE (PHENYLAMINE, AMINOBENZENE)	SVOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8270	10/03/1996	Soil	0.08	U	0.08	0.08
ANILINE (PHENYLAMINE, AMINOBENZENE)	SVOC	965752BH03	96575233SL	AP-3787	5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
ANILINE (PHENYLAMINE, AMINOBENZENE)	SVOC	965752BH04	96575238SL	AP-3788	2.5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
ANILINE (PHENYLAMINE, AMINOBENZENE)	SVOC	965752BH04	96575239SL-AVG	AP-3788	5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
ANILINE (PHENYLAMINE, AMINOBENZENE)	SVOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8270	10/06/1994	Soil	1	U		1
ANILINE (PHENYLAMINE, AMINOBENZENE)	SVOC	Drum Accumulation Area	94575203SL	SS 2	6"	8270	10/06/1994	Soil	1	U		1
ANILINE (PHENYLAMINE, AMINOBENZENE)	SVOC	Drum Accumulation Area	94575204SL	SS 3	6"	8270	10/06/1994	Soil	1	U		1
ANILINE (PHENYLAMINE, AMINOBENZENE)	SVOC	Drum Accumulation Area	94575205SL	SS 4	6"	8270	10/06/1994	Soil	1	U		1
ANILINE (PHENYLAMINE, AMINOBENZENE)	SVOC	Drum Accumulation Area	94575206SL	SS 5	6"	8270	10/06/1994	Soil	1	U		1
ANILINE (PHENYLAMINE, AMINOBENZENE)	SVOC	Drum Accumulation Area	94575207SL	SS 6	6"	8270	10/06/1994	Soil	1	U		1
ANILINE (PHENYLAMINE, AMINOBENZENE)	SVOC	Drum Accumulation Area	94575208SL	SS 7	6"	8270	10/06/1994	Soil	1	U		1
ANILINE (PHENYLAMINE, AMINOBENZENE)	SVOC	Drum Accumulation Area	94575209SL	SS 8	6"	8270	10/06/1994	Soil	1	U		1
ANILINE (PHENYLAMINE, AMINOBENZENE)	SVOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8270	11/03/1994	Soil	2	U		2
ANILINE (PHENYLAMINE, AMINOBENZENE)	SVOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8270	11/03/1994	Soil	2	U		2
ANILINE (PHENYLAMINE, AMINOBENZENE)	SVOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8270	11/07/1994	Soil	1	U		1
ANILINE (PHENYLAMINE, AMINOBENZENE)	SVOC	Cooling Pond	94575231SL	AP-3503	0-6'	8270	11/08/1994	Soil	1	U		1
ANILINE (PHENYLAMINE, AMINOBENZENE)	SVOC	Cooling Pond	94575235SL	AP-3504	0-2'	8270	11/09/1994	Soil	1	U		1
ANILINE (PHENYLAMINE, AMINOBENZENE)	SVOC	965752BH03	96575230SL	AP-3787	0	8270	10/03/1996	Soil	0.04	U	0.04	1

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
ANILINE (PHENYLAMINE, AMINOBENZENE)	SVOC	965752BH04	96575236SL-AVG	AP-3788	0	8270	10/03/1996	Soil	0.04	U	0.04	1
ANTHRACENE	SVOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
ANTHRACENE	SVOC	Cooling Pond	94575242SD	SD-B	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
ANTHRACENE	SVOC	Cooling Pond	94575243SD	SD-C	0-6"	8270	12/08/1994	Sediment	4	U		4
ANTHRACENE	SVOC	Cooling Pond	94575244SD	SD-D	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
ANTHRACENE	SVOC	Cooling Pond	94575245SD	SD-E	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
ANTHRACENE	SVOC	Cooling Pond	94575246SD	SD-F	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
ANTHRACENE	SVOC	Cooling Pond	94575247SD	SD-G	0-6"	8270	12/08/1994	Sediment	0.8	U		0.8
ANTHRACENE	SVOC	Cooling Pond	94575248SD	SD-H	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
ANTHRACENE	SVOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8270	09/25/1996	Sediment	0.4	U	0.4	3
ANTHRACENE	SVOC	119 ft from DP	96575205SD	96-SD5	----	8270	09/25/1996	Sediment	0.09	U	0.09	0.7
ANTHRACENE	SVOC	147 ft from DP	96575206SD	96-SD6	----	8270	09/25/1996	Sediment	0.04	U	0.04	0.3
ANTHRACENE	SVOC	165 ft from DP	96575208SD	96-SD8	----	8270	09/25/1996	Sediment	1.2	=	0.04	0.3
ANTHRACENE	SVOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8270	09/25/1996	Sediment	0.04	U	0.04	0.3
ANTHRACENE	SVOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8270	09/25/1996	Sediment	0.08	U	0.08	0.7
ANTHRACENE	SVOC	40 ft from DP	96575202SD	96-SD2	----	8270	09/25/1996	Sediment	0.3	J	0.09	0.7
ANTHRACENE	SVOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8270	09/25/1996	Sediment	0.09	U	0.09	0.7
ANTHRACENE	SVOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8270	09/25/1996	Sediment	0.04	U	0.04	0.3
ANTHRACENE	SVOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8270	09/26/1996	Sediment	0.2	U	0.2	1.2
ANTHRACENE	SVOC	Downstream end of 35-752 pond	975752007SD-AVG	96-SD007	0	SIM	10/21/1997	Sediment	0.0285	=	0.0006	0.005
ANTHRACENE	SVOC	Drum Accumulation Area	94575210SL	SS 8	2'	8270	10/06/1994	Soil	0.3	U		0.3
ANTHRACENE	SVOC	Drum Accumulation Area	94575211SL	SS 7	2'	8270	10/10/1994	Soil	0.3	U		0.3
ANTHRACENE	SVOC	Drum Accumulation Area	94575212SL	SS 6	2'	8270	10/10/1994	Soil	0.3	U		0.3
ANTHRACENE	SVOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8270	10/10/1994	Soil	0.5	U		0.5
ANTHRACENE	SVOC	Drum Accumulation Area	94575215SL	SS 4	2'	8270	10/10/1994	Soil	0.3	U		0.3
ANTHRACENE	SVOC	Drum Accumulation Area	94575216SL	SS 3	2'	8270	10/10/1994	Soil	0.3	U		0.3
ANTHRACENE	SVOC	Drum Accumulation Area	94575217SL	SS 2	2'	8270	10/10/1994	Soil	0.3	U		0.3
ANTHRACENE	SVOC	Drum Accumulation Area	94575218SL	SS 1	2'	8270	10/10/1994	Soil	0.3	U		0.3
ANTHRACENE	SVOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8270	11/03/1994	Soil	0.3	U		0.3
ANTHRACENE	SVOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8270	11/03/1994	Soil	0.3	U		0.3
ANTHRACENE	SVOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8270	11/07/1994	Soil	0.3	U		0.3
ANTHRACENE	SVOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8270	11/09/1994	Soil	0.3	U		0.3
ANTHRACENE	SVOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8270	11/11/1994	Soil	0.3	U		0.3
ANTHRACENE	SVOC	965752BH01	96575225SL	AP-3785	5	8270	10/02/1996	Soil	0.04	U	0.04	0.04
ANTHRACENE	SVOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8270	10/03/1996	Soil	0.08	U	0.08	0.08
ANTHRACENE	SVOC	965752BH03	96575233SL	AP-3787	5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
ANTHRACENE	SVOC	965752BH04	96575238SL	AP-3788	2.5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
ANTHRACENE	SVOC	965752BH04	96575239SL-AVG	AP-3788	5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
ANTHRACENE	SVOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8270	10/06/1994	Soil	0.3	U		0.3
ANTHRACENE	SVOC	Drum Accumulation Area	94575203SL	SS 2	6"	8270	10/06/1994	Soil	0.3	U		0.3
ANTHRACENE	SVOC	Drum Accumulation Area	94575204SL	SS 3	6"	8270	10/06/1994	Soil	0.3	U		0.3
ANTHRACENE	SVOC	Drum Accumulation Area	94575205SL	SS 4	6"	8270	10/06/1994	Soil	0.3	U		0.3
ANTHRACENE	SVOC	Drum Accumulation Area	94575206SL	SS 5	6"	8270	10/06/1994	Soil	0.3	U		0.3
ANTHRACENE	SVOC	Drum Accumulation Area	94575207SL	SS 6	6"	8270	10/06/1994	Soil	0.3	U		0.3
ANTHRACENE	SVOC	Drum Accumulation Area	94575208SL	SS 7	6"	8270	10/06/1994	Soil	0.3	U		0.3
ANTHRACENE	SVOC	Drum Accumulation Area	94575209SL	SS 8	6"	8270	10/06/1994	Soil	0.3	U		0.3
ANTHRACENE	SVOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8270	11/03/1994	Soil	0.6	U		0.6
ANTHRACENE	SVOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8270	11/03/1994	Soil	0.6	U		0.6
ANTHRACENE	SVOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8270	11/07/1994	Soil	0.3	U		0.3
ANTHRACENE	SVOC	Cooling Pond	94575231SL	AP-3503	0-6'	8270	11/08/1994	Soil	0.3	U		0.3
ANTHRACENE	SVOC	Cooling Pond	94575235SL	AP-3504	0-2'	8270	11/09/1994	Soil	0.3	U		0.3
ANTHRACENE	SVOC	965752BH03	96575230SL	AP-3787	0	8270	10/03/1996	Soil	0.04	U	0.04	0.3
ANTHRACENE	SVOC	965752BH04	96575236SL-AVG	AP-3788	0	8270	10/03/1996	Soil	0.04	U	0.04	0.3
ANTIMONY	METAL	Drum Accumulation Area	94575210SL	SS 8	2'	METALS	10/06/1994	Soil	10	U		10
ANTIMONY	METAL	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	METALS	10/06/1994	Soil	10	U		10
ANTIMONY	METAL	Drum Accumulation Area	94575203SL	SS 2	6"	METALS	10/06/1994	Soil	10	U		10
ANTIMONY	METAL	Drum Accumulation Area	94575204SL	SS 3	6"	METALS	10/06/1994	Soil	10	U		10
ANTIMONY	METAL	Drum Accumulation Area	94575205SL	SS 4	6"	METALS	10/06/1994	Soil	10	U		10
ANTIMONY	METAL	Drum Accumulation Area	94575206SL	SS 5	6"	METALS	10/06/1994	Soil	10	U		10
ANTIMONY	METAL	Drum Accumulation Area	94575207SL	SS 6	6"	METALS	10/06/1994	Soil	10	U		10
ANTIMONY	METAL	Drum Accumulation Area	94575208SL	SS 7	6"	METALS	10/06/1994	Soil	10	U		10
ANTIMONY	METAL	Drum Accumulation Area	94575209SL	SS 8	6"	METALS	10/06/1994	Soil	10	U		10

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
ARSENIC	METAL	Cooling Pond	94575240SD-AVG	SD-A	0-6"	METALS	12/08/1994	Sediment	4	=		1
ARSENIC	METAL	Cooling Pond	94575242SD	SD-B	0-6"	METALS	12/08/1994	Sediment	4	=		1
ARSENIC	METAL	Cooling Pond	94575243SD	SD-C	0-6"	METALS	12/08/1994	Sediment	3	=		1
ARSENIC	METAL	Cooling Pond	94575244SD	SD-D	0-6"	METALS	12/08/1994	Sediment	5	=		1
ARSENIC	METAL	Cooling Pond	94575245SD	SD-E	0-6"	METALS	12/08/1994	Sediment	3	=		1
ARSENIC	METAL	Cooling Pond	94575246SD	SD-F	0-6"	METALS	12/08/1994	Sediment	3	=		1
ARSENIC	METAL	Cooling Pond	94575247SD	SD-G	0-6"	METALS	12/08/1994	Sediment	5	=		1
ARSENIC	METAL	Cooling Pond	94575248SD	SD-H	0-6"	METALS	12/08/1994	Sediment	5	=		1
ARSENIC	METAL	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	METALS	09/25/1996	Sediment	4	=	0.4	2
ARSENIC	METAL	119 ft from DP	96575205SD	96-SD5	----	METALS	09/25/1996	Sediment	4	=	0.4	2
ARSENIC	METAL	147 ft from DP	96575206SD	96-SD6	----	METALS	09/25/1996	Sediment	4	=	0.2	1
ARSENIC	METAL	165 ft from DP	96575208SD	96-SD8	----	METALS	09/25/1996	Sediment	5	=	0.4	2
ARSENIC	METAL	171 ft from DP (east side)	96575209SD	96-SD9	----	METALS	09/25/1996	Sediment	3	=	0.4	2
ARSENIC	METAL	171 ft from DP (west side)	96575207SD	96-SD7	----	METALS	09/25/1996	Sediment	3	=	0.4	2
ARSENIC	METAL	40 ft from DP	96575202SD	96-SD2	----	METALS	09/25/1996	Sediment	5	=	0.4	2
ARSENIC	METAL	79 ft from DP	96575203SD-AVG	96-SD3	----	METALS	09/25/1996	Sediment	4	=	0.4	2
ARSENIC	METAL	Discharge pipe (DP)	96575201SD	96-SD1	----	METALS	09/25/1996	Sediment	3	=	0.2	1
ARSENIC	METAL	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	METALS	09/26/1996	Sediment	5	=	0.4	2
ARSENIC	METAL	Drum Accumulation Area	94575210SL	SS 8	2'	METALS	10/06/1994	Soil	7	=		1
ARSENIC	METAL	Drum Accumulation Area	94575211SL	SS 7	2'	METALS	10/10/1994	Soil	6	=		1
ARSENIC	METAL	Drum Accumulation Area	94575212SL	SS 6	2'	METALS	10/10/1994	Soil	6	=		1
ARSENIC	METAL	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	METALS	10/10/1994	Soil	7	=		1
ARSENIC	METAL	Drum Accumulation Area	94575215SL	SS 4	2'	METALS	10/10/1994	Soil	5	=		1
ARSENIC	METAL	Drum Accumulation Area	94575216SL	SS 3	2'	METALS	10/10/1994	Soil	5	=		1
ARSENIC	METAL	Drum Accumulation Area	94575217SL	SS 2	2'	METALS	10/10/1994	Soil	7	=		1
ARSENIC	METAL	Drum Accumulation Area	94575218SL	SS 1	2'	METALS	10/10/1994	Soil	5	=		1
ARSENIC	METAL	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	METALS	11/03/1994	Soil	7	=		1
ARSENIC	METAL	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	METALS	11/03/1994	Soil	4	=		1
ARSENIC	METAL	Cooling Pond	94575229SL	AP-3502	4'-6'	METALS	11/07/1994	Soil	5	=		1
ARSENIC	METAL	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	METALS	11/09/1994	Soil	4.5	J		1
ARSENIC	METAL	Cooling Pond	94575240SL	AP-3501	5'-7'	METALS	11/11/1994	Soil	5	=		1
ARSENIC	METAL	965752BH03	96575231SL-AVG	AP-3787	2.5	METALS	10/03/1996	Soil	7	=	0.2	0.2
ARSENIC	METAL	965752BH03	96575233SL	AP-3787	5	METALS	10/03/1996	Soil	6	=	0.2	0.2
ARSENIC	METAL	965752BH04	96575238SL	AP-3788	2.5	METALS	10/03/1996	Soil	5	=	0.2	0.2
ARSENIC	METAL	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	METALS	10/06/1994	Soil	8	J		1
ARSENIC	METAL	Drum Accumulation Area	94575203SL	SS 2	6"	METALS	10/06/1994	Soil	7	J		1
ARSENIC	METAL	Drum Accumulation Area	94575204SL	SS 3	6"	METALS	10/06/1994	Soil	8	J		1
ARSENIC	METAL	Drum Accumulation Area	94575205SL	SS 4	6"	METALS	10/06/1994	Soil	7	J		1
ARSENIC	METAL	Drum Accumulation Area	94575206SL	SS 5	6"	METALS	10/06/1994	Soil	5	=		1
ARSENIC	METAL	Drum Accumulation Area	94575207SL	SS 6	6"	METALS	10/06/1994	Soil	7	=		1
ARSENIC	METAL	Drum Accumulation Area	94575208SL	SS 7	6"	METALS	10/06/1994	Soil	7	=		1
ARSENIC	METAL	Drum Accumulation Area	94575209SL	SS 8	6"	METALS	10/06/1994	Soil	7	=		1
ARSENIC	METAL	Drum Accumulation Area	94575219SL	AP-3505	0-4'	METALS	11/03/1994	Soil	6	=		1
ARSENIC	METAL	Drum Accumulation Area	94575223SL	AP-3506	0-2'	METALS	11/03/1994	Soil	5	=		1
ARSENIC	METAL	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	METALS	11/07/1994	Soil	5	=		1
ARSENIC	METAL	Cooling Pond	94575231SL	AP-3503	0-6'	METALS	11/08/1994	Soil	5	=		1
ARSENIC	METAL	Cooling Pond	94575235SL	AP-3504	0-2'	METALS	11/09/1994	Soil	5	J		1
ARSENIC	METAL	965752BH03	96575230SL	AP-3787	0	METALS	10/03/1996	Soil	5	=	0.2	1
ARSENIC	METAL	965752BH04	96575236SL-AVG	AP-3788	0	METALS	10/03/1996	Soil	6	=	0.2	1
BARIUM	METAL	Cooling Pond	94575240SD-AVG	SD-A	0-6"	METALS	12/08/1994	Sediment	108.5	=		1
BARIUM	METAL	Cooling Pond	94575242SD	SD-B	0-6"	METALS	12/08/1994	Sediment	113	=		1
BARIUM	METAL	Cooling Pond	94575243SD	SD-C	0-6"	METALS	12/08/1994	Sediment	65	=		1
BARIUM	METAL	Cooling Pond	94575244SD	SD-D	0-6"	METALS	12/08/1994	Sediment	96	=		1
BARIUM	METAL	Cooling Pond	94575245SD	SD-E	0-6"	METALS	12/08/1994	Sediment	44	=		1
BARIUM	METAL	Cooling Pond	94575246SD	SD-F	0-6"	METALS	12/08/1994	Sediment	49	=		1
BARIUM	METAL	Cooling Pond	94575247SD	SD-G	0-6"	METALS	12/08/1994	Sediment	83	=		1
BARIUM	METAL	Cooling Pond	94575248SD	SD-H	0-6"	METALS	12/08/1994	Sediment	61	=		1
BARIUM	METAL	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	METALS	09/25/1996	Sediment	105	=	0.3	1
BARIUM	METAL	119 ft from DP	96575205SD	96-SD5	----	METALS	09/25/1996	Sediment	79	=	0.3	1
BARIUM	METAL	147 ft from DP	96575206SD	96-SD6	----	METALS	09/25/1996	Sediment	48	=	0.3	1
BARIUM	METAL	165 ft from DP	96575208SD	96-SD8	----	METALS	09/25/1996	Sediment	85	=	0.3	1
BARIUM	METAL	171 ft from DP (east side)	96575209SD	96-SD9	----	METALS	09/25/1996	Sediment	59	=	0.3	1

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
BARIUM	METAL	171 ft from DP (west side)	96575207SD	96-SD7	----	METALS	09/25/1996	Sediment	90	=	0.3	1
BARIUM	METAL	40 ft from DP	96575202SD	96-SD2	----	METALS	09/25/1996	Sediment	77	=	0.3	1
BARIUM	METAL	79 ft from DP	96575203SD-AVG	96-SD3	----	METALS	09/25/1996	Sediment	72	=	0.3	1
BARIUM	METAL	Discharge pipe (DP)	96575201SD	96-SD1	----	METALS	09/25/1996	Sediment	38	=	0.3	1
BARIUM	METAL	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	METALS	09/26/1996	Sediment	136	=	0.3	1
BARIUM	METAL	Drum Accumulation Area	94575210SL	SS 8	2'	METALS	10/06/1994	Soil	92	J		1
BARIUM	METAL	Drum Accumulation Area	94575211SL	SS 7	2'	METALS	10/10/1994	Soil	90	=		1
BARIUM	METAL	Drum Accumulation Area	94575212SL	SS 6	2'	METALS	10/10/1994	Soil	93	=		1
BARIUM	METAL	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	METALS	10/10/1994	Soil	87	=		1
BARIUM	METAL	Drum Accumulation Area	94575215SL	SS 4	2'	METALS	10/10/1994	Soil	81	=		1
BARIUM	METAL	Drum Accumulation Area	94575216SL	SS 3	2'	METALS	10/10/1994	Soil	49	=		1
BARIUM	METAL	Drum Accumulation Area	94575217SL	SS 2	2'	METALS	10/10/1994	Soil	57	=		1
BARIUM	METAL	Drum Accumulation Area	94575218SL	SS 1	2'	METALS	10/10/1994	Soil	58	=		1
BARIUM	METAL	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	METALS	11/03/1994	Soil	76	=		1
BARIUM	METAL	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	METALS	11/03/1994	Soil	63	=		1
BARIUM	METAL	Cooling Pond	94575229SL	AP-3502	4'-6'	METALS	11/07/1994	Soil	89	=		1
BARIUM	METAL	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	METALS	11/09/1994	Soil	52	=		1
BARIUM	METAL	Cooling Pond	94575240SL	AP-3501	5'-7'	METALS	11/11/1994	Soil	57	=		1
BARIUM	METAL	965752BH03	96575231SL-AVG	AP-3787	2.5	METALS	10/03/1996	Soil	92	=	0.3	0.3
BARIUM	METAL	965752BH03	96575233SL	AP-3787	5	METALS	10/03/1996	Soil	54	=	0.3	0.3
BARIUM	METAL	965752BH04	96575238SL	AP-3788	2.5	METALS	10/03/1996	Soil	45	=	0.3	0.3
BARIUM	METAL	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	METALS	10/06/1994	Soil	87	=		1
BARIUM	METAL	Drum Accumulation Area	94575203SL	SS 2	6"	METALS	10/06/1994	Soil	64	=		1
BARIUM	METAL	Drum Accumulation Area	94575204SL	SS 3	6"	METALS	10/06/1994	Soil	99	=		1
BARIUM	METAL	Drum Accumulation Area	94575205SL	SS 4	6"	METALS	10/06/1994	Soil	110	=		1
BARIUM	METAL	Drum Accumulation Area	94575206SL	SS 5	6"	METALS	10/06/1994	Soil	220	J		1
BARIUM	METAL	Drum Accumulation Area	94575207SL	SS 6	6"	METALS	10/06/1994	Soil	73	J		1
BARIUM	METAL	Drum Accumulation Area	94575208SL	SS 7	6"	METALS	10/06/1994	Soil	67	J		1
BARIUM	METAL	Drum Accumulation Area	94575209SL	SS 8	6"	METALS	10/06/1994	Soil	83	J		1
BARIUM	METAL	Drum Accumulation Area	94575219SL	AP-3505	0-4'	METALS	11/03/1994	Soil	69	=		1
BARIUM	METAL	Drum Accumulation Area	94575223SL	AP-3506	0-2'	METALS	11/03/1994	Soil	70	=		1
BARIUM	METAL	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	METALS	11/07/1994	Soil	95	=		1
BARIUM	METAL	Cooling Pond	94575231SL	AP-3503	0-6'	METALS	11/08/1994	Soil	47	=		1
BARIUM	METAL	Cooling Pond	94575235SL	AP-3504	0-2'	METALS	11/09/1994	Soil	79	=		1
BARIUM	METAL	965752BH03	96575230SL	AP-3787	0	METALS	10/03/1996	Soil	61	=	0.3	1
BARIUM	METAL	965752BH04	96575236SL-AVG	AP-3788	0	METALS	10/03/1996	Soil	124.5	=	0.3	1
BENZENE	VOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
BENZENE	VOC	Cooling Pond	94575242SD	SD-B	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
BENZENE	VOC	Cooling Pond	94575243SD	SD-C	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
BENZENE	VOC	Cooling Pond	94575244SD	SD-D	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
BENZENE	VOC	Cooling Pond	94575245SD	SD-E	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
BENZENE	VOC	Cooling Pond	94575246SD	SD-F	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
BENZENE	VOC	Cooling Pond	94575247SD	SD-G	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
BENZENE	VOC	Cooling Pond	94575248SD	SD-H	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
BENZENE	VOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
BENZENE	VOC	119 ft from DP	96575205SD	96-SD5	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
BENZENE	VOC	147 ft from DP	96575206SD	96-SD6	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
BENZENE	VOC	165 ft from DP	96575208SD	96-SD8	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
BENZENE	VOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
BENZENE	VOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8260	09/25/1996	Sediment	0.006	U	0.006	0.015
BENZENE	VOC	40 ft from DP	96575202SD	96-SD2	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
BENZENE	VOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
BENZENE	VOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
BENZENE	VOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8260	09/26/1996	Sediment	0.004	U	0.004	0.01
BENZENE	VOC	Drum Accumulation Area	94575210SL	SS 8	2'	8260	10/06/1994	Soil	0.005	U		0.005
BENZENE	VOC	Drum Accumulation Area	94575211SL	SS 7	2'	8260	10/10/1994	Soil	0.005	U		0.005
BENZENE	VOC	Drum Accumulation Area	94575212SL	SS 6	2'	8260	10/10/1994	Soil	0.005	U		0.005
BENZENE	VOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8260	10/10/1994	Soil	0.005	U		0.005
BENZENE	VOC	Drum Accumulation Area	94575215SL	SS 4	2'	8260	10/10/1994	Soil	0.005	U		0.005
BENZENE	VOC	Drum Accumulation Area	94575216SL	SS 3	2'	8260	10/10/1994	Soil	0.005	U		0.005
BENZENE	VOC	Drum Accumulation Area	94575217SL	SS 2	2'	8260	10/10/1994	Soil	0.005	U		0.005
BENZENE	VOC	Drum Accumulation Area	94575218SL	SS 1	2'	8260	10/10/1994	Soil	0.005	U		0.005

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
BENZENE	VOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8260	11/03/1994	Soil	0.005	U		0.005
BENZENE	VOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8260	11/03/1994	Soil	0.005	U		0.005
BENZENE	VOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8260	11/07/1994	Soil	0.005	U		0.005
BENZENE	VOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8260	11/09/1994	Soil	0.005	U		0.005
BENZENE	VOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8260	11/11/1994	Soil	0.005	U		0.005
BENZENE	VOC	965752BH01	96575225SL	AP-3785	5	8260	10/02/1996	Soil	0.002	U	0.002	0.002
BENZENE	VOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
BENZENE	VOC	965752BH04	96575238SL	AP-3788	2.5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
BENZENE	VOC	965752BH04	96575239SL-AVG	AP-3788	5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
BENZENE	VOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8260	10/06/1994	Soil	0.005	U		0.005
BENZENE	VOC	Drum Accumulation Area	94575203SL	SS 2	6"	8260	10/06/1994	Soil	0.005	U		0.005
BENZENE	VOC	Drum Accumulation Area	94575204SL	SS 3	6"	8260	10/06/1994	Soil	0.005	U		0.005
BENZENE	VOC	Drum Accumulation Area	94575205SL	SS 4	6"	8260	10/06/1994	Soil	0.005	U		0.005
BENZENE	VOC	Drum Accumulation Area	94575206SL	SS 5	6"	8260	10/06/1994	Soil	0.005	U		0.005
BENZENE	VOC	Drum Accumulation Area	94575207SL	SS 6	6"	8260	10/06/1994	Soil	0.005	U		0.005
BENZENE	VOC	Drum Accumulation Area	94575208SL	SS 7	6"	8260	10/06/1994	Soil	0.005	U		0.005
BENZENE	VOC	Drum Accumulation Area	94575209SL	SS 8	6"	8260	10/06/1994	Soil	0.005	U		0.005
BENZENE	VOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8260	11/03/1994	Soil	0.005	U		0.005
BENZENE	VOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8260	11/03/1994	Soil	0.005	U		0.005
BENZENE	VOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8260	11/07/1994	Soil	0.005	U		0.005
BENZENE	VOC	Cooling Pond	94575231SL	AP-3503	0-6'	8260	11/08/1994	Soil	0.005	U		0.005
BENZENE	VOC	Cooling Pond	94575235SL	AP-3504	0-2'	8260	11/09/1994	Soil	0.005	U		0.005
BENZENE	VOC	965752BH03	96575230SL	AP-3787	0	8260	10/03/1996	Soil	0.002	U	0.002	0.005
BENZENE	VOC	965752BH04	96575236SL-AVG	AP-3788	0	8260	10/03/1996	Soil	0.002	U	0.002	0.005
BENZENE	VOC	Tank 1109; BH-12	90FRUST86 soil	AP-2982	5-6.5'	8020	08/21/1990	Soil	0.012	U		0.012
BENZENE	VOC	Tank 1109; BH-13	90FRUST90 soil	AP-2983	5-5.5'	8020	08/21/1990	Soil	0.011	U		0.011
BENZO(a)ANTHRACENE	SVOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
BENZO(a)ANTHRACENE	SVOC	Cooling Pond	94575242SD	SD-B	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
BENZO(a)ANTHRACENE	SVOC	Cooling Pond	94575243SD	SD-C	0-6"	8270	12/08/1994	Sediment	4	U		4
BENZO(a)ANTHRACENE	SVOC	Cooling Pond	94575244SD	SD-D	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
BENZO(a)ANTHRACENE	SVOC	Cooling Pond	94575245SD	SD-E	0-6"	8270	12/08/1994	Sediment	0.6	=		0.3
BENZO(a)ANTHRACENE	SVOC	Cooling Pond	94575246SD	SD-F	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
BENZO(a)ANTHRACENE	SVOC	Cooling Pond	94575247SD	SD-G	0-6"	8270	12/08/1994	Sediment	0.8	U		0.8
BENZO(a)ANTHRACENE	SVOC	Cooling Pond	94575248SD	SD-H	0-6"	8270	12/08/1994	Sediment	1.5	=		0.3
BENZO(a)ANTHRACENE	SVOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8270	09/25/1996	Sediment	0.4	U	0.4	3
BENZO(a)ANTHRACENE	SVOC	119 ft from DP	96575205SD	96-SD5	----	8270	09/25/1996	Sediment	0.1	J	0.09	0.7
BENZO(a)ANTHRACENE	SVOC	147 ft from DP	96575206SD	96-SD6	----	8270	09/25/1996	Sediment	0.1	J	0.04	0.3
BENZO(a)ANTHRACENE	SVOC	165 ft from DP	96575208SD	96-SD8	----	8270	09/25/1996	Sediment	0.6	=	0.04	0.3
BENZO(a)ANTHRACENE	SVOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8270	09/25/1996	Sediment	0.1	J	0.04	0.3
BENZO(a)ANTHRACENE	SVOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8270	09/25/1996	Sediment	0.1	J	0.08	0.7
BENZO(a)ANTHRACENE	SVOC	40 ft from DP	96575202SD	96-SD2	----	8270	09/25/1996	Sediment	1	=	0.09	0.7
BENZO(a)ANTHRACENE	SVOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8270	09/25/1996	Sediment	0.1	J	0.09	0.7
BENZO(a)ANTHRACENE	SVOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8270	09/25/1996	Sediment	0.04	U	0.04	0.3
BENZO(a)ANTHRACENE	SVOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8270	09/26/1996	Sediment	0.3	J	0.2	1.2
BENZO(a)ANTHRACENE	SVOC	Downstream end of 35-752 pond	975752007SD-AVG	96-SD007	0	SIM	10/21/1997	Sediment	0.1155	=	0.0007	0.005
BENZO(a)ANTHRACENE	SVOC	Drum Accumulation Area	94575210SL	SS 8	2'	8270	10/06/1994	Soil	0.3	U		0.3
BENZO(a)ANTHRACENE	SVOC	Drum Accumulation Area	94575211SL	SS 7	2'	8270	10/10/1994	Soil	0.3	U		0.3
BENZO(a)ANTHRACENE	SVOC	Drum Accumulation Area	94575212SL	SS 6	2'	8270	10/10/1994	Soil	0.3	U		0.3
BENZO(a)ANTHRACENE	SVOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8270	10/10/1994	Soil	0.5	U		0.5
BENZO(a)ANTHRACENE	SVOC	Drum Accumulation Area	94575215SL	SS 4	2'	8270	10/10/1994	Soil	0.3	U		0.3
BENZO(a)ANTHRACENE	SVOC	Drum Accumulation Area	94575216SL	SS 3	2'	8270	10/10/1994	Soil	0.3	U		0.3
BENZO(a)ANTHRACENE	SVOC	Drum Accumulation Area	94575217SL	SS 2	2'	8270	10/10/1994	Soil	0.3	U		0.3
BENZO(a)ANTHRACENE	SVOC	Drum Accumulation Area	94575218SL	SS 1	2'	8270	10/10/1994	Soil	0.3	U		0.3
BENZO(a)ANTHRACENE	SVOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8270	11/03/1994	Soil	0.3	U		0.3
BENZO(a)ANTHRACENE	SVOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8270	11/03/1994	Soil	0.3	U		0.3
BENZO(a)ANTHRACENE	SVOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8270	11/07/1994	Soil	0.3	U		0.3
BENZO(a)ANTHRACENE	SVOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8270	11/09/1994	Soil	0.3	U		0.3
BENZO(a)ANTHRACENE	SVOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8270	11/11/1994	Soil	0.3	U		0.3
BENZO(a)ANTHRACENE	SVOC	965752BH01	96575225SL	AP-3785	5	8270	10/02/1996	Soil	0.04	U	0.04	0.04
BENZO(a)ANTHRACENE	SVOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8270	10/03/1996	Soil	0.08	U	0.08	0.08
BENZO(a)ANTHRACENE	SVOC	965752BH03	96575233SL	AP-3787	5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
BENZO(a)ANTHRACENE	SVOC	965752BH04	96575238SL	AP-3788	2.5	8270	10/03/1996	Soil	0.04	U	0.04	0.04

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
BENZO(a)ANTHRACENE	SVOC	965752BH04	96575239SL-AVG	AP-3788	5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
BENZO(a)ANTHRACENE	SVOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8270	10/06/1994	Soil	0.3	U		0.3
BENZO(a)ANTHRACENE	SVOC	Drum Accumulation Area	94575203SL	SS 2	6"	8270	10/06/1994	Soil	0.3	U		0.3
BENZO(a)ANTHRACENE	SVOC	Drum Accumulation Area	94575204SL	SS 3	6"	8270	10/06/1994	Soil	0.3	U		0.3
BENZO(a)ANTHRACENE	SVOC	Drum Accumulation Area	94575205SL	SS 4	6"	8270	10/06/1994	Soil	0.3	U		0.3
BENZO(a)ANTHRACENE	SVOC	Drum Accumulation Area	94575206SL	SS 5	6"	8270	10/06/1994	Soil	0.3	U		0.3
BENZO(a)ANTHRACENE	SVOC	Drum Accumulation Area	94575207SL	SS 6	6"	8270	10/06/1994	Soil	0.3	U		0.3
BENZO(a)ANTHRACENE	SVOC	Drum Accumulation Area	94575208SL	SS 7	6"	8270	10/06/1994	Soil	0.3	U		0.3
BENZO(a)ANTHRACENE	SVOC	Drum Accumulation Area	94575209SL	SS 8	6"	8270	10/06/1994	Soil	0.3	U		0.3
BENZO(a)ANTHRACENE	SVOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8270	11/03/1994	Soil	0.6	U		0.6
BENZO(a)ANTHRACENE	SVOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8270	11/03/1994	Soil	0.6	U		0.6
BENZO(a)ANTHRACENE	SVOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8270	11/07/1994	Soil	0.3	U		0.3
BENZO(a)ANTHRACENE	SVOC	Cooling Pond	94575231SL	AP-3503	0-6'	8270	11/08/1994	Soil	0.3	U		0.3
BENZO(a)ANTHRACENE	SVOC	Cooling Pond	94575235SL	AP-3504	0-2'	8270	11/09/1994	Soil	0.3	U		0.3
BENZO(a)ANTHRACENE	SVOC	965752BH03	96575230SL	AP-3787	0	8270	10/03/1996	Soil	0.04	U	0.04	0.3
BENZO(a)ANTHRACENE	SVOC	965752BH04	96575236SL-AVG	AP-3788	0	8270	10/03/1996	Soil	0.04	U	0.04	0.3
BENZO(a)PYRENE	SVOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
BENZO(a)PYRENE	SVOC	Cooling Pond	94575242SD	SD-B	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
BENZO(a)PYRENE	SVOC	Cooling Pond	94575243SD	SD-C	0-6"	8270	12/08/1994	Sediment	4	U		4
BENZO(a)PYRENE	SVOC	Cooling Pond	94575244SD	SD-D	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
BENZO(a)PYRENE	SVOC	Cooling Pond	94575245SD	SD-E	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
BENZO(a)PYRENE	SVOC	Cooling Pond	94575246SD	SD-F	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
BENZO(a)PYRENE	SVOC	Cooling Pond	94575247SD	SD-G	0-6"	8270	12/08/1994	Sediment	0.8	U		0.8
BENZO(a)PYRENE	SVOC	Cooling Pond	94575248SD	SD-H	0-6"	8270	12/08/1994	Sediment	1.2	=		0.3
BENZO(a)PYRENE	SVOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8270	09/25/1996	Sediment	0.4	U	0.4	3
BENZO(a)PYRENE	SVOC	119 ft from DP	96575205SD	96-SD5	----	8270	09/25/1996	Sediment	0.1	J	0.09	0.7
BENZO(a)PYRENE	SVOC	147 ft from DP	96575206SD	96-SD6	----	8270	09/25/1996	Sediment	0.1	J	0.04	0.3
BENZO(a)PYRENE	SVOC	165 ft from DP	96575208SD	96-SD8	----	8270	09/25/1996	Sediment	0.2	J	0.04	0.3
BENZO(a)PYRENE	SVOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8270	09/25/1996	Sediment	0.1	J	0.04	0.3
BENZO(a)PYRENE	SVOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8270	09/25/1996	Sediment	0.1	J	0.08	0.7
BENZO(a)PYRENE	SVOC	40 ft from DP	96575202SD	96-SD2	----	8270	09/25/1996	Sediment	0.7	=	0.09	0.7
BENZO(a)PYRENE	SVOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8270	09/25/1996	Sediment	0.1	J	0.09	0.7
BENZO(a)PYRENE	SVOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8270	09/25/1996	Sediment	0.04	U	0.04	0.3
BENZO(a)PYRENE	SVOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8270	09/26/1996	Sediment	0.2	J	0.2	1.2
BENZO(a)PYRENE	SVOC	Downstream end of 35-752 pond	975752007SD-AVG	96-SD007	0	SIM	10/21/1997	Sediment	0.084	=	0.0005	0.005
BENZO(a)PYRENE	SVOC	Drum Accumulation Area	94575210SL	SS 8	2'	8270	10/06/1994	Soil	0.3	U		0.3
BENZO(a)PYRENE	SVOC	Drum Accumulation Area	94575211SL	SS 7	2'	8270	10/10/1994	Soil	0.3	U		0.3
BENZO(a)PYRENE	SVOC	Drum Accumulation Area	94575212SL	SS 6	2'	8270	10/10/1994	Soil	0.3	U		0.3
BENZO(a)PYRENE	SVOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8270	10/10/1994	Soil	0.5	U		0.5
BENZO(a)PYRENE	SVOC	Drum Accumulation Area	94575215SL	SS 4	2'	8270	10/10/1994	Soil	0.3	U		0.3
BENZO(a)PYRENE	SVOC	Drum Accumulation Area	94575216SL	SS 3	2'	8270	10/10/1994	Soil	0.3	U		0.3
BENZO(a)PYRENE	SVOC	Drum Accumulation Area	94575217SL	SS 2	2'	8270	10/10/1994	Soil	0.3	U		0.3
BENZO(a)PYRENE	SVOC	Drum Accumulation Area	94575218SL	SS 1	2'	8270	10/10/1994	Soil	0.3	U		0.3
BENZO(a)PYRENE	SVOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8270	11/03/1994	Soil	0.31	=		0.3
BENZO(a)PYRENE	SVOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8270	11/03/1994	Soil	0.3	U		0.3
BENZO(a)PYRENE	SVOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8270	11/07/1994	Soil	0.3	U		0.3
BENZO(a)PYRENE	SVOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8270	11/09/1994	Soil	0.3	U		0.3
BENZO(a)PYRENE	SVOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8270	11/11/1994	Soil	0.3	U		0.3
BENZO(a)PYRENE	SVOC	965752BH01	96575225SL	AP-3785	5	8270	10/02/1996	Soil	0.04	U	0.04	0.04
BENZO(a)PYRENE	SVOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8270	10/03/1996	Soil	0.08	U	0.08	0.08
BENZO(a)PYRENE	SVOC	965752BH03	96575233SL	AP-3787	5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
BENZO(a)PYRENE	SVOC	965752BH04	96575238SL	AP-3788	2.5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
BENZO(a)PYRENE	SVOC	965752BH04	96575239SL-AVG	AP-3788	5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
BENZO(a)PYRENE	SVOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8270	10/06/1994	Soil	0.3	U		0.3
BENZO(a)PYRENE	SVOC	Drum Accumulation Area	94575203SL	SS 2	6"	8270	10/06/1994	Soil	0.3	U		0.3
BENZO(a)PYRENE	SVOC	Drum Accumulation Area	94575204SL	SS 3	6"	8270	10/06/1994	Soil	0.3	U		0.3
BENZO(a)PYRENE	SVOC	Drum Accumulation Area	94575205SL	SS 4	6"	8270	10/06/1994	Soil	0.3	U		0.3
BENZO(a)PYRENE	SVOC	Drum Accumulation Area	94575206SL	SS 5	6"	8270	10/06/1994	Soil	0.3	U		0.3
BENZO(a)PYRENE	SVOC	Drum Accumulation Area	94575207SL	SS 6	6"	8270	10/06/1994	Soil	0.3	U		0.3
BENZO(a)PYRENE	SVOC	Drum Accumulation Area	94575208SL	SS 7	6"	8270	10/06/1994	Soil	0.3	U		0.3
BENZO(a)PYRENE	SVOC	Drum Accumulation Area	94575209SL	SS 8	6"	8270	10/06/1994	Soil	0.3	=		0.3
BENZO(a)PYRENE	SVOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8270	11/03/1994	Soil	0.6	U		0.6

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
BENZO(a)PYRENE	SVOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8270	11/03/1994	Soil	0.6	U		0.6
BENZO(a)PYRENE	SVOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8270	11/07/1994	Soil	0.3	U		0.3
BENZO(a)PYRENE	SVOC	Cooling Pond	94575231SL	AP-3503	0-6'	8270	11/08/1994	Soil	0.3	U		0.3
BENZO(a)PYRENE	SVOC	Cooling Pond	94575235SL	AP-3504	0-2'	8270	11/09/1994	Soil	0.3	U		0.3
BENZO(a)PYRENE	SVOC	965752BH03	96575230SL	AP-3787	0	8270	10/03/1996	Soil	0.04	U	0.04	0.3
BENZO(a)PYRENE	SVOC	965752BH04	96575236SL-AVG	AP-3788	0	8270	10/03/1996	Soil	0.04	U	0.04	0.3
BENZO(b)FLUORANTHENE	SVOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
BENZO(b)FLUORANTHENE	SVOC	Cooling Pond	94575242SD	SD-B	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
BENZO(b)FLUORANTHENE	SVOC	Cooling Pond	94575243SD	SD-C	0-6"	8270	12/08/1994	Sediment	4	U		4
BENZO(b)FLUORANTHENE	SVOC	Cooling Pond	94575244SD	SD-D	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
BENZO(b)FLUORANTHENE	SVOC	Cooling Pond	94575245SD	SD-E	0-6"	8270	12/08/1994	Sediment	0.7	=		0.3
BENZO(b)FLUORANTHENE	SVOC	Cooling Pond	94575246SD	SD-F	0-6"	8270	12/08/1994	Sediment	0.4	=		0.3
BENZO(b)FLUORANTHENE	SVOC	Cooling Pond	94575247SD	SD-G	0-6"	8270	12/08/1994	Sediment	0.8	U		0.8
BENZO(b)FLUORANTHENE	SVOC	Cooling Pond	94575248SD	SD-H	0-6"	8270	12/08/1994	Sediment	2	=		0.3
BENZO(b)FLUORANTHENE	SVOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8270	09/25/1996	Sediment	0.4	U	0.4	3
BENZO(b)FLUORANTHENE	SVOC	119 ft from DP	96575205SD	96-SD5	----	8270	09/25/1996	Sediment	0.2	J	0.09	0.7
BENZO(b)FLUORANTHENE	SVOC	147 ft from DP	96575206SD	96-SD6	----	8270	09/25/1996	Sediment	0.1	J	0.04	0.3
BENZO(b)FLUORANTHENE	SVOC	165 ft from DP	96575208SD	96-SD8	----	8270	09/25/1996	Sediment	0.4	=	0.04	0.3
BENZO(b)FLUORANTHENE	SVOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8270	09/25/1996	Sediment	0.2	J	0.04	0.3
BENZO(b)FLUORANTHENE	SVOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8270	09/25/1996	Sediment	0.1	J	0.08	0.7
BENZO(b)FLUORANTHENE	SVOC	40 ft from DP	96575202SD	96-SD2	----	8270	09/25/1996	Sediment	1.4	=	0.09	0.7
BENZO(b)FLUORANTHENE	SVOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8270	09/25/1996	Sediment	0.2	J	0.09	0.7
BENZO(b)FLUORANTHENE	SVOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8270	09/25/1996	Sediment	0.04	U	0.04	0.3
BENZO(b)FLUORANTHENE	SVOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8270	09/26/1996	Sediment	0.4	J	0.2	1.2
BENZO(b)FLUORANTHENE	SVOC	Downstream end of 35-752 pond	975752007SD-AVG	96-SD007	0	SIM	10/21/1997	Sediment	0.181	=	0.0008	0.005
BENZO(b)FLUORANTHENE	SVOC	Drum Accumulation Area	94575210SL	SS 8	2'	8270	10/06/1994	Soil	0.3	U		0.3
BENZO(b)FLUORANTHENE	SVOC	Drum Accumulation Area	94575211SL	SS 7	2'	8270	10/10/1994	Soil	0.3	U		0.3
BENZO(b)FLUORANTHENE	SVOC	Drum Accumulation Area	94575212SL	SS 6	2'	8270	10/10/1994	Soil	0.3	U		0.3
BENZO(b)FLUORANTHENE	SVOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8270	10/10/1994	Soil	0.5	U		0.5
BENZO(b)FLUORANTHENE	SVOC	Drum Accumulation Area	94575215SL	SS 4	2'	8270	10/10/1994	Soil	0.3	U		0.3
BENZO(b)FLUORANTHENE	SVOC	Drum Accumulation Area	94575216SL	SS 3	2'	8270	10/10/1994	Soil	0.3	U		0.3
BENZO(b)FLUORANTHENE	SVOC	Drum Accumulation Area	94575217SL	SS 2	2'	8270	10/10/1994	Soil	0.3	U		0.3
BENZO(b)FLUORANTHENE	SVOC	Drum Accumulation Area	94575218SL	SS 1	2'	8270	10/10/1994	Soil	0.3	U		0.3
BENZO(b)FLUORANTHENE	SVOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8270	11/03/1994	Soil	0.93	=		0.3
BENZO(b)FLUORANTHENE	SVOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8270	11/03/1994	Soil	0.3	U		0.3
BENZO(b)FLUORANTHENE	SVOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8270	11/07/1994	Soil	0.3	U		0.3
BENZO(b)FLUORANTHENE	SVOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8270	11/09/1994	Soil	0.3	U		0.3
BENZO(b)FLUORANTHENE	SVOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8270	11/11/1994	Soil	0.3	U		0.3
BENZO(b)FLUORANTHENE	SVOC	965752BH01	96575225SL	AP-3785	5	8270	10/02/1996	Soil	0.04	U	0.04	0.04
BENZO(b)FLUORANTHENE	SVOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8270	10/03/1996	Soil	0.08	U	0.08	0.08
BENZO(b)FLUORANTHENE	SVOC	965752BH03	96575233SL	AP-3787	5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
BENZO(b)FLUORANTHENE	SVOC	965752BH04	96575238SL	AP-3788	2.5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
BENZO(b)FLUORANTHENE	SVOC	965752BH04	96575239SL-AVG	AP-3788	5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
BENZO(b)FLUORANTHENE	SVOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8270	10/06/1994	Soil	0.3	U		0.3
BENZO(b)FLUORANTHENE	SVOC	Drum Accumulation Area	94575203SL	SS 2	6"	8270	10/06/1994	Soil	0.3	U		0.3
BENZO(b)FLUORANTHENE	SVOC	Drum Accumulation Area	94575204SL	SS 3	6"	8270	10/06/1994	Soil	0.3	U		0.3
BENZO(b)FLUORANTHENE	SVOC	Drum Accumulation Area	94575205SL	SS 4	6"	8270	10/06/1994	Soil	0.3	U		0.3
BENZO(b)FLUORANTHENE	SVOC	Drum Accumulation Area	94575206SL	SS 5	6"	8270	10/06/1994	Soil	0.3	U		0.3
BENZO(b)FLUORANTHENE	SVOC	Drum Accumulation Area	94575207SL	SS 6	6"	8270	10/06/1994	Soil	0.3	U		0.3
BENZO(b)FLUORANTHENE	SVOC	Drum Accumulation Area	94575208SL	SS 7	6"	8270	10/06/1994	Soil	0.3	U		0.3
BENZO(b)FLUORANTHENE	SVOC	Drum Accumulation Area	94575209SL	SS 8	6"	8270	10/06/1994	Soil	0.8	=		0.3
BENZO(b)FLUORANTHENE	SVOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8270	11/03/1994	Soil	0.7	=		0.3
BENZO(b)FLUORANTHENE	SVOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8270	11/03/1994	Soil	0.6	U		0.6
BENZO(b)FLUORANTHENE	SVOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8270	11/07/1994	Soil	0.3	U		0.3
BENZO(b)FLUORANTHENE	SVOC	Cooling Pond	94575231SL	AP-3503	0-6'	8270	11/08/1994	Soil	0.3	U		0.3
BENZO(b)FLUORANTHENE	SVOC	Cooling Pond	94575235SL	AP-3504	0-2'	8270	11/09/1994	Soil	0.3	U		0.3
BENZO(b)FLUORANTHENE	SVOC	965752BH03	96575230SL	AP-3787	0	8270	10/03/1996	Soil	0.1	J	0.04	0.3
BENZO(b)FLUORANTHENE	SVOC	965752BH04	96575236SL-AVG	AP-3788	0	8270	10/03/1996	Soil	0.04	U	0.04	0.3
BENZO(g,h,i)PERYLENE	SVOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
BENZO(g,h,i)PERYLENE	SVOC	Cooling Pond	94575242SD	SD-B	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
BENZO(g,h,i)PERYLENE	SVOC	Cooling Pond	94575243SD	SD-C	0-6"	8270	12/08/1994	Sediment	4	U		4
BENZO(g,h,i)PERYLENE	SVOC	Cooling Pond	94575244SD	SD-D	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
BENZO(g,h,i)PERYLENE	SVOC	Cooling Pond	94575245SD	SD-E	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
BENZO(g,h,i)PERYLENE	SVOC	Cooling Pond	94575246SD	SD-F	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
BENZO(g,h,i)PERYLENE	SVOC	Cooling Pond	94575247SD	SD-G	0-6"	8270	12/08/1994	Sediment	0.8	U		0.8
BENZO(g,h,i)PERYLENE	SVOC	Cooling Pond	94575248SD	SD-H	0-6"	8270	12/08/1994	Sediment	0.5	=		0.3
BENZO(g,h,i)PERYLENE	SVOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8270	09/25/1996	Sediment	0.5	U	0.5	3
BENZO(g,h,i)PERYLENE	SVOC	119 ft from DP	96575205SD	96-SD5	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7
BENZO(g,h,i)PERYLENE	SVOC	147 ft from DP	96575206SD	96-SD6	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
BENZO(g,h,i)PERYLENE	SVOC	165 ft from DP	96575208SD	96-SD8	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
BENZO(g,h,i)PERYLENE	SVOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
BENZO(g,h,i)PERYLENE	SVOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8270	09/25/1996	Sediment	0.1	U	0.1	0.7
BENZO(g,h,i)PERYLENE	SVOC	40 ft from DP	96575202SD	96-SD2	----	8270	09/25/1996	Sediment	0.2	J	0.2	0.7
BENZO(g,h,i)PERYLENE	SVOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7
BENZO(g,h,i)PERYLENE	SVOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
BENZO(g,h,i)PERYLENE	SVOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8270	09/26/1996	Sediment	0.3	J	0.2	1.2
BENZO(g,h,i)PERYLENE	SVOC	Downstream end of 35-752 pond	975752007SD-AVG	96-SD007	0	SIM	10/21/1997	Sediment	0.0485	=	0.0004	0.005
BENZO(g,h,i)PERYLENE	SVOC	Drum Accumulation Area	94575210SL	SS 8	2'	8270	10/06/1994	Soil	0.3	U		0.3
BENZO(g,h,i)PERYLENE	SVOC	Drum Accumulation Area	94575211SL	SS 7	2'	8270	10/10/1994	Soil	0.3	U		0.3
BENZO(g,h,i)PERYLENE	SVOC	Drum Accumulation Area	94575212SL	SS 6	2'	8270	10/10/1994	Soil	0.3	U		0.3
BENZO(g,h,i)PERYLENE	SVOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8270	10/10/1994	Soil	0.5	U		0.5
BENZO(g,h,i)PERYLENE	SVOC	Drum Accumulation Area	94575215SL	SS 4	2'	8270	10/10/1994	Soil	0.3	U		0.3
BENZO(g,h,i)PERYLENE	SVOC	Drum Accumulation Area	94575216SL	SS 3	2'	8270	10/10/1994	Soil	0.3	U		0.3
BENZO(g,h,i)PERYLENE	SVOC	Drum Accumulation Area	94575217SL	SS 2	2'	8270	10/10/1994	Soil	0.3	U		0.3
BENZO(g,h,i)PERYLENE	SVOC	Drum Accumulation Area	94575218SL	SS 1	2'	8270	10/10/1994	Soil	0.3	U		0.3
BENZO(g,h,i)PERYLENE	SVOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8270	11/03/1994	Soil	0.3	U		0.3
BENZO(g,h,i)PERYLENE	SVOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8270	11/03/1994	Soil	0.3	U		0.3
BENZO(g,h,i)PERYLENE	SVOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8270	11/07/1994	Soil	0.3	U		0.3
BENZO(g,h,i)PERYLENE	SVOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8270	11/09/1994	Soil	0.3	U		0.3
BENZO(g,h,i)PERYLENE	SVOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8270	11/11/1994	Soil	0.3	U		0.3
BENZO(g,h,i)PERYLENE	SVOC	965752BH01	96575225SL	AP-3785	5	8270	10/02/1996	Soil	0.05	U	0.05	0.05
BENZO(g,h,i)PERYLENE	SVOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8270	10/03/1996	Soil	0.1	U	0.1	0.1
BENZO(g,h,i)PERYLENE	SVOC	965752BH03	96575233SL	AP-3787	5	8270	10/03/1996	Soil	0.05	U	0.05	0.05
BENZO(g,h,i)PERYLENE	SVOC	965752BH04	96575238SL	AP-3788	2.5	8270	10/03/1996	Soil	0.05	U	0.05	0.05
BENZO(g,h,i)PERYLENE	SVOC	965752BH04	96575239SL-AVG	AP-3788	5	8270	10/03/1996	Soil	0.05	U	0.05	0.05
BENZO(g,h,i)PERYLENE	SVOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8270	10/06/1994	Soil	0.3	U		0.3
BENZO(g,h,i)PERYLENE	SVOC	Drum Accumulation Area	94575203SL	SS 2	6"	8270	10/06/1994	Soil	0.3	U		0.3
BENZO(g,h,i)PERYLENE	SVOC	Drum Accumulation Area	94575204SL	SS 3	6"	8270	10/06/1994	Soil	0.3	U		0.3
BENZO(g,h,i)PERYLENE	SVOC	Drum Accumulation Area	94575205SL	SS 4	6"	8270	10/06/1994	Soil	0.3	U		0.3
BENZO(g,h,i)PERYLENE	SVOC	Drum Accumulation Area	94575206SL	SS 5	6"	8270	10/06/1994	Soil	0.3	U		0.3
BENZO(g,h,i)PERYLENE	SVOC	Drum Accumulation Area	94575207SL	SS 6	6"	8270	10/06/1994	Soil	0.3	U		0.3
BENZO(g,h,i)PERYLENE	SVOC	Drum Accumulation Area	94575208SL	SS 7	6"	8270	10/06/1994	Soil	0.3	U		0.3
BENZO(g,h,i)PERYLENE	SVOC	Drum Accumulation Area	94575209SL	SS 8	6"	8270	10/06/1994	Soil	0.3	U		0.3
BENZO(g,h,i)PERYLENE	SVOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8270	11/03/1994	Soil	0.6	U		0.6
BENZO(g,h,i)PERYLENE	SVOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8270	11/03/1994	Soil	0.6	U		0.6
BENZO(g,h,i)PERYLENE	SVOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8270	11/07/1994	Soil	0.3	U		0.3
BENZO(g,h,i)PERYLENE	SVOC	Cooling Pond	94575231SL	AP-3503	0-6'	8270	11/08/1994	Soil	0.3	U		0.3
BENZO(g,h,i)PERYLENE	SVOC	Cooling Pond	94575235SL	AP-3504	0-2'	8270	11/09/1994	Soil	0.3	U		0.3
BENZO(g,h,i)PERYLENE	SVOC	965752BH03	96575230SL	AP-3787	0	8270	10/03/1996	Soil	0.05	U	0.05	0.3
BENZO(g,h,i)PERYLENE	SVOC	965752BH04	96575236SL-AVG	AP-3788	0	8270	10/03/1996	Soil	0.05	U	0.05	0.3
BENZO(k)FLUORANTHENE	SVOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
BENZO(k)FLUORANTHENE	SVOC	Cooling Pond	94575242SD	SD-B	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
BENZO(k)FLUORANTHENE	SVOC	Cooling Pond	94575243SD	SD-C	0-6"	8270	12/08/1994	Sediment	4	U		4
BENZO(k)FLUORANTHENE	SVOC	Cooling Pond	94575244SD	SD-D	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
BENZO(k)FLUORANTHENE	SVOC	Cooling Pond	94575245SD	SD-E	0-6"	8270	12/08/1994	Sediment	0.4	=		0.3
BENZO(k)FLUORANTHENE	SVOC	Cooling Pond	94575246SD	SD-F	0-6"	8270	12/08/1994	Sediment	0.5	=		0.3
BENZO(k)FLUORANTHENE	SVOC	Cooling Pond	94575247SD	SD-G	0-6"	8270	12/08/1994	Sediment	0.8	U		0.8
BENZO(k)FLUORANTHENE	SVOC	Cooling Pond	94575248SD	SD-H	0-6"	8270	12/08/1994	Sediment	1.3	=		0.3
BENZO(k)FLUORANTHENE	SVOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8270	09/25/1996	Sediment	0.4	U	0.4	3
BENZO(k)FLUORANTHENE	SVOC	119 ft from DP	96575205SD	96-SD5	----	8270	09/25/1996	Sediment	0.2	J	0.09	0.7
BENZO(k)FLUORANTHENE	SVOC	147 ft from DP	96575206SD	96-SD6	----	8270	09/25/1996	Sediment	0.1	J	0.04	0.3
BENZO(k)FLUORANTHENE	SVOC	165 ft from DP	96575208SD	96-SD8	----	8270	09/25/1996	Sediment	0.4	=	0.04	0.3
BENZO(k)FLUORANTHENE	SVOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8270	09/25/1996	Sediment	0.1	J	0.04	0.3
BENZO(k)FLUORANTHENE	SVOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8270	09/25/1996	Sediment	0.1	J	0.08	0.7

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
BENZO(k)FLUORANTHENE	SVOC	40 ft from DP	96575202SD	96-SD2	----	8270	09/25/1996	Sediment	1.2	=	0.09	0.7
BENZO(k)FLUORANTHENE	SVOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8270	09/25/1996	Sediment	0.2	J	0.09	0.7
BENZO(k)FLUORANTHENE	SVOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8270	09/25/1996	Sediment	0.04	U	0.04	0.3
BENZO(k)FLUORANTHENE	SVOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8270	09/26/1996	Sediment	0.2	J	0.2	1.2
BENZO(k)FLUORANTHENE	SVOC	Downstream end of 35-752 pond	975752007SD-AVG	96-SD007	0	SIM	10/21/1997	Sediment	0.143	=	0.0006	0.005
BENZO(k)FLUORANTHENE	SVOC	Drum Accumulation Area	94575210SL	SS 8	2'	8270	10/06/1994	Soil	0.3	U		0.3
BENZO(k)FLUORANTHENE	SVOC	Drum Accumulation Area	94575211SL	SS 7	2'	8270	10/10/1994	Soil	0.3	U		0.3
BENZO(k)FLUORANTHENE	SVOC	Drum Accumulation Area	94575212SL	SS 6	2'	8270	10/10/1994	Soil	0.3	U		0.3
BENZO(k)FLUORANTHENE	SVOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8270	10/10/1994	Soil	0.5	U		0.5
BENZO(k)FLUORANTHENE	SVOC	Drum Accumulation Area	94575215SL	SS 4	2'	8270	10/10/1994	Soil	0.3	U		0.3
BENZO(k)FLUORANTHENE	SVOC	Drum Accumulation Area	94575216SL	SS 3	2'	8270	10/10/1994	Soil	0.3	U		0.3
BENZO(k)FLUORANTHENE	SVOC	Drum Accumulation Area	94575217SL	SS 2	2'	8270	10/10/1994	Soil	0.3	U		0.3
BENZO(k)FLUORANTHENE	SVOC	Drum Accumulation Area	94575218SL	SS 1	2'	8270	10/10/1994	Soil	0.3	U		0.3
BENZO(k)FLUORANTHENE	SVOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8270	11/03/1994	Soil	0.65	=		0.3
BENZO(k)FLUORANTHENE	SVOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8270	11/03/1994	Soil	0.3	U		0.3
BENZO(k)FLUORANTHENE	SVOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8270	11/07/1994	Soil	0.3	U		0.3
BENZO(k)FLUORANTHENE	SVOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8270	11/09/1994	Soil	0.3	U		0.3
BENZO(k)FLUORANTHENE	SVOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8270	11/11/1994	Soil	0.3	U		0.3
BENZO(k)FLUORANTHENE	SVOC	965752BH01	96575225SL	AP-3785	5	8270	10/02/1996	Soil	0.04	U	0.04	0.04
BENZO(k)FLUORANTHENE	SVOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8270	10/03/1996	Soil	0.08	U	0.08	0.08
BENZO(k)FLUORANTHENE	SVOC	965752BH03	96575233SL	AP-3787	5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
BENZO(k)FLUORANTHENE	SVOC	965752BH04	96575238SL	AP-3788	2.5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
BENZO(k)FLUORANTHENE	SVOC	965752BH04	96575239SL-AVG	AP-3788	5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
BENZO(k)FLUORANTHENE	SVOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8270	10/06/1994	Soil	0.3	U		0.3
BENZO(k)FLUORANTHENE	SVOC	Drum Accumulation Area	94575203SL	SS 2	6"	8270	10/06/1994	Soil	0.3	U		0.3
BENZO(k)FLUORANTHENE	SVOC	Drum Accumulation Area	94575204SL	SS 3	6"	8270	10/06/1994	Soil	0.3	U		0.3
BENZO(k)FLUORANTHENE	SVOC	Drum Accumulation Area	94575205SL	SS 4	6"	8270	10/06/1994	Soil	0.3	U		0.3
BENZO(k)FLUORANTHENE	SVOC	Drum Accumulation Area	94575206SL	SS 5	6"	8270	10/06/1994	Soil	0.3	U		0.3
BENZO(k)FLUORANTHENE	SVOC	Drum Accumulation Area	94575207SL	SS 6	6"	8270	10/06/1994	Soil	0.3	U		0.3
BENZO(k)FLUORANTHENE	SVOC	Drum Accumulation Area	94575208SL	SS 7	6"	8270	10/06/1994	Soil	0.3	U		0.3
BENZO(k)FLUORANTHENE	SVOC	Drum Accumulation Area	94575209SL	SS 8	6"	8270	10/06/1994	Soil	0.7	=		0.3
BENZO(k)FLUORANTHENE	SVOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8270	11/03/1994	Soil	0.7	=		0.3
BENZO(k)FLUORANTHENE	SVOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8270	11/03/1994	Soil	0.6	U		0.6
BENZO(k)FLUORANTHENE	SVOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8270	11/07/1994	Soil	0.3	U		0.3
BENZO(k)FLUORANTHENE	SVOC	Cooling Pond	94575231SL	AP-3503	0-6'	8270	11/08/1994	Soil	0.3	U		0.3
BENZO(k)FLUORANTHENE	SVOC	Cooling Pond	94575235SL	AP-3504	0-2'	8270	11/09/1994	Soil	0.3	U		0.3
BENZO(k)FLUORANTHENE	SVOC	965752BH03	96575230SL	AP-3787	0	8270	10/03/1996	Soil	0.1	J	0.04	0.3
BENZO(k)FLUORANTHENE	SVOC	965752BH04	96575236SL-AVG	AP-3788	0	8270	10/03/1996	Soil	0.04	U	0.04	0.3
BENZOIC ACID	SVOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8270	12/08/1994	Sediment	2	U		2
BENZOIC ACID	SVOC	Cooling Pond	94575242SD	SD-B	0-6"	8270	12/08/1994	Sediment	2	U		2
BENZOIC ACID	SVOC	Cooling Pond	94575243SD	SD-C	0-6"	8270	12/08/1994	Sediment	24	U		24
BENZOIC ACID	SVOC	Cooling Pond	94575244SD	SD-D	0-6"	8270	12/08/1994	Sediment	2	U		2
BENZOIC ACID	SVOC	Cooling Pond	94575245SD	SD-E	0-6"	8270	12/08/1994	Sediment	2	U		2
BENZOIC ACID	SVOC	Cooling Pond	94575246SD	SD-F	0-6"	8270	12/08/1994	Sediment	2	U		2
BENZOIC ACID	SVOC	Cooling Pond	94575247SD	SD-G	0-6"	8270	12/08/1994	Sediment	4.5	U		4.5
BENZOIC ACID	SVOC	Cooling Pond	94575248SD	SD-H	0-6"	8270	12/08/1994	Sediment	2	U		2
BENZOIC ACID	SVOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8270	09/25/1996	Sediment	1	U	1	20
BENZOIC ACID	SVOC	119 ft from DP	96575205SD	96-SD5	----	8270	09/25/1996	Sediment	0.3	U	0.3	4.6
BENZOIC ACID	SVOC	147 ft from DP	96575206SD	96-SD6	----	8270	09/25/1996	Sediment	0.1	U	0.1	2
BENZOIC ACID	SVOC	165 ft from DP	96575208SD	96-SD8	----	8270	09/25/1996	Sediment	0.1	U	0.1	2
BENZOIC ACID	SVOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8270	09/25/1996	Sediment	0.1	U	0.1	2
BENZOIC ACID	SVOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8270	09/25/1996	Sediment	0.2	U	0.2	4.2
BENZOIC ACID	SVOC	40 ft from DP	96575202SD	96-SD2	----	8270	09/25/1996	Sediment	0.3	U	0.3	4.6
BENZOIC ACID	SVOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8270	09/25/1996	Sediment	0.3	U	0.3	4.6
BENZOIC ACID	SVOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8270	09/25/1996	Sediment	0.1	U	0.1	2
BENZOIC ACID	SVOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8270	09/26/1996	Sediment	0.4	U	0.4	8
BENZOIC ACID	SVOC	Drum Accumulation Area	94575210SL	SS 8	2'	8270	10/06/1994	Soil	2	U		2
BENZOIC ACID	SVOC	Drum Accumulation Area	94575211SL	SS 7	2'	8270	10/10/1994	Soil	2	U		2
BENZOIC ACID	SVOC	Drum Accumulation Area	94575212SL	SS 6	2'	8270	10/10/1994	Soil	2	U		2
BENZOIC ACID	SVOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8270	10/10/1994	Soil	3	U		3
BENZOIC ACID	SVOC	Drum Accumulation Area	94575215SL	SS 4	2'	8270	10/10/1994	Soil	2	U		2
BENZOIC ACID	SVOC	Drum Accumulation Area	94575216SL	SS 3	2'	8270	10/10/1994	Soil	2	U		2

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
BENZOIC ACID	SVOC	Drum Accumulation Area	94575217SL	SS 2	2'	8270	10/10/1994	Soil	2	U		2
BENZOIC ACID	SVOC	Drum Accumulation Area	94575218SL	SS 1	2'	8270	10/10/1994	Soil	2	U		2
BENZOIC ACID	SVOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8270	11/03/1994	Soil	2	U		2
BENZOIC ACID	SVOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8270	11/03/1994	Soil	2	U		2
BENZOIC ACID	SVOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8270	11/07/1994	Soil	2	U		2
BENZOIC ACID	SVOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8270	11/09/1994	Soil	2	U		2
BENZOIC ACID	SVOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8270	11/11/1994	Soil	2	U		2
BENZOIC ACID	SVOC	965752BH01	96575225SL	AP-3785	5	8270	10/02/1996	Soil	0.1	U	0.1	0.1
BENZOIC ACID	SVOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8270	10/03/1996	Soil	0.2	U	0.2	0.2
BENZOIC ACID	SVOC	965752BH03	96575233SL	AP-3787	5	8270	10/03/1996	Soil	0.1	U	0.1	0.1
BENZOIC ACID	SVOC	965752BH04	96575238SL	AP-3788	2.5	8270	10/03/1996	Soil	0.1	U	0.1	0.1
BENZOIC ACID	SVOC	965752BH04	96575239SL-AVG	AP-3788	5	8270	10/03/1996	Soil	0.1	U	0.1	0.1
BENZOIC ACID	SVOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8270	10/06/1994	Soil	2	U		2
BENZOIC ACID	SVOC	Drum Accumulation Area	94575203SL	SS 2	6"	8270	10/06/1994	Soil	2	U		2
BENZOIC ACID	SVOC	Drum Accumulation Area	94575204SL	SS 3	6"	8270	10/06/1994	Soil	2	U		2
BENZOIC ACID	SVOC	Drum Accumulation Area	94575205SL	SS 4	6"	8270	10/06/1994	Soil	2	U		2
BENZOIC ACID	SVOC	Drum Accumulation Area	94575206SL	SS 5	6"	8270	10/06/1994	Soil	2	U		2
BENZOIC ACID	SVOC	Drum Accumulation Area	94575207SL	SS 6	6"	8270	10/06/1994	Soil	2	U		2
BENZOIC ACID	SVOC	Drum Accumulation Area	94575208SL	SS 7	6"	8270	10/06/1994	Soil	2	U		2
BENZOIC ACID	SVOC	Drum Accumulation Area	94575209SL	SS 8	6"	8270	10/06/1994	Soil	2	U		2
BENZOIC ACID	SVOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8270	11/03/1994	Soil	4	U		4
BENZOIC ACID	SVOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8270	11/03/1994	Soil	4	U		4
BENZOIC ACID	SVOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8270	11/07/1994	Soil	2	U		2
BENZOIC ACID	SVOC	Cooling Pond	94575231SL	AP-3503	0-6'	8270	11/08/1994	Soil	2	U		2
BENZOIC ACID	SVOC	Cooling Pond	94575235SL	AP-3504	0-2'	8270	11/09/1994	Soil	2	U		2
BENZOIC ACID	SVOC	965752BH03	96575230SL	AP-3787	0	8270	10/03/1996	Soil	0.1	U	0.1	2
BENZOIC ACID	SVOC	965752BH04	96575236SL-AVG	AP-3788	0	8270	10/03/1996	Soil	0.1	U	0.1	2
BENZYL ALCOHOL	SVOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
BENZYL ALCOHOL	SVOC	Cooling Pond	94575242SD	SD-B	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
BENZYL ALCOHOL	SVOC	Cooling Pond	94575243SD	SD-C	0-6"	8270	12/08/1994	Sediment	4	U		4
BENZYL ALCOHOL	SVOC	Cooling Pond	94575244SD	SD-D	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
BENZYL ALCOHOL	SVOC	Cooling Pond	94575245SD	SD-E	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
BENZYL ALCOHOL	SVOC	Cooling Pond	94575246SD	SD-F	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
BENZYL ALCOHOL	SVOC	Cooling Pond	94575247SD	SD-G	0-6"	8270	12/08/1994	Sediment	0.8	U		0.8
BENZYL ALCOHOL	SVOC	Cooling Pond	94575248SD	SD-H	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
BENZYL ALCOHOL	SVOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8270	09/25/1996	Sediment	0.4	U	0.4	3
BENZYL ALCOHOL	SVOC	119 ft from DP	96575205SD	96-SD5	----	8270	09/25/1996	Sediment	0.09	U	0.09	0.7
BENZYL ALCOHOL	SVOC	147 ft from DP	96575206SD	96-SD6	----	8270	09/25/1996	Sediment	0.04	U	0.04	0.3
BENZYL ALCOHOL	SVOC	165 ft from DP	96575208SD	96-SD8	----	8270	09/25/1996	Sediment	0.04	U	0.04	0.3
BENZYL ALCOHOL	SVOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8270	09/25/1996	Sediment	0.04	U	0.04	0.3
BENZYL ALCOHOL	SVOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8270	09/25/1996	Sediment	0.08	U	0.08	0.7
BENZYL ALCOHOL	SVOC	40 ft from DP	96575202SD	96-SD2	----	8270	09/25/1996	Sediment	0.09	U	0.09	0.7
BENZYL ALCOHOL	SVOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8270	09/25/1996	Sediment	0.09	U	0.09	0.7
BENZYL ALCOHOL	SVOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8270	09/25/1996	Sediment	0.04	U	0.04	0.3
BENZYL ALCOHOL	SVOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8270	09/26/1996	Sediment	0.2	U	0.2	1.2
BENZYL ALCOHOL	SVOC	Drum Accumulation Area	94575210SL	SS 8	2'	8270	10/06/1994	Soil	0.3	U		0.3
BENZYL ALCOHOL	SVOC	Drum Accumulation Area	94575211SL	SS 7	2'	8270	10/10/1994	Soil	0.3	U		0.3
BENZYL ALCOHOL	SVOC	Drum Accumulation Area	94575212SL	SS 6	2'	8270	10/10/1994	Soil	0.3	U		0.3
BENZYL ALCOHOL	SVOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8270	10/10/1994	Soil	0.5	U		0.5
BENZYL ALCOHOL	SVOC	Drum Accumulation Area	94575215SL	SS 4	2'	8270	10/10/1994	Soil	0.3	U		0.3
BENZYL ALCOHOL	SVOC	Drum Accumulation Area	94575216SL	SS 3	2'	8270	10/10/1994	Soil	0.3	U		0.3
BENZYL ALCOHOL	SVOC	Drum Accumulation Area	94575217SL	SS 2	2'	8270	10/10/1994	Soil	0.3	U		0.3
BENZYL ALCOHOL	SVOC	Drum Accumulation Area	94575218SL	SS 1	2'	8270	10/10/1994	Soil	0.3	U		0.3
BENZYL ALCOHOL	SVOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8270	11/03/1994	Soil	0.3	U		0.3
BENZYL ALCOHOL	SVOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8270	11/03/1994	Soil	0.3	U		0.3
BENZYL ALCOHOL	SVOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8270	11/07/1994	Soil	0.3	U		0.3
BENZYL ALCOHOL	SVOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8270	11/09/1994	Soil	0.3	U		0.3
BENZYL ALCOHOL	SVOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8270	11/11/1994	Soil	0.3	U		0.3
BENZYL ALCOHOL	SVOC	965752BH01	96575225SL	AP-3785	5	8270	10/02/1996	Soil	0.04	U	0.04	0.04
BENZYL ALCOHOL	SVOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8270	10/03/1996	Soil	0.08	U	0.08	0.08
BENZYL ALCOHOL	SVOC	965752BH03	96575233SL	AP-3787	5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
BENZYL ALCOHOL	SVOC	965752BH04	96575238SL	AP-3788	2.5	8270	10/03/1996	Soil	0.04	U	0.04	0.04

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
BENZYL ALCOHOL	SVOC	965752BH04	96575239SL-AVG	AP-3788	5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
BENZYL ALCOHOL	SVOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8270	10/06/1994	Soil	0.3	U		0.3
BENZYL ALCOHOL	SVOC	Drum Accumulation Area	94575203SL	SS 2	6"	8270	10/06/1994	Soil	0.3	U		0.3
BENZYL ALCOHOL	SVOC	Drum Accumulation Area	94575204SL	SS 3	6"	8270	10/06/1994	Soil	0.3	U		0.3
BENZYL ALCOHOL	SVOC	Drum Accumulation Area	94575205SL	SS 4	6"	8270	10/06/1994	Soil	0.3	U		0.3
BENZYL ALCOHOL	SVOC	Drum Accumulation Area	94575206SL	SS 5	6"	8270	10/06/1994	Soil	0.3	U		0.3
BENZYL ALCOHOL	SVOC	Drum Accumulation Area	94575207SL	SS 6	6"	8270	10/06/1994	Soil	0.3	U		0.3
BENZYL ALCOHOL	SVOC	Drum Accumulation Area	94575208SL	SS 7	6"	8270	10/06/1994	Soil	0.3	U		0.3
BENZYL ALCOHOL	SVOC	Drum Accumulation Area	94575209SL	SS 8	6"	8270	10/06/1994	Soil	0.3	U		0.3
BENZYL ALCOHOL	SVOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8270	11/03/1994	Soil	0.6	U		0.6
BENZYL ALCOHOL	SVOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8270	11/03/1994	Soil	0.6	U		0.6
BENZYL ALCOHOL	SVOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8270	11/07/1994	Soil	0.3	U		0.3
BENZYL ALCOHOL	SVOC	Cooling Pond	94575231SL	AP-3503	0-6'	8270	11/08/1994	Soil	0.3	U		0.3
BENZYL ALCOHOL	SVOC	Cooling Pond	94575235SL	AP-3504	0-2'	8270	11/09/1994	Soil	0.3	U		0.3
BENZYL ALCOHOL	SVOC	965752BH03	96575230SL	AP-3787	0	8270	10/03/1996	Soil	0.04	U	0.04	0.3
BENZYL ALCOHOL	SVOC	965752BH04	96575236SL-AVG	AP-3788	0	8270	10/03/1996	Soil	0.04	U	0.04	0.3
BENZYL BUTYL PHTHALATE	SVOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
BENZYL BUTYL PHTHALATE	SVOC	Cooling Pond	94575242SD	SD-B	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
BENZYL BUTYL PHTHALATE	SVOC	Cooling Pond	94575243SD	SD-C	0-6"	8270	12/08/1994	Sediment	4	U		4
BENZYL BUTYL PHTHALATE	SVOC	Cooling Pond	94575244SD	SD-D	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
BENZYL BUTYL PHTHALATE	SVOC	Cooling Pond	94575245SD	SD-E	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
BENZYL BUTYL PHTHALATE	SVOC	Cooling Pond	94575246SD	SD-F	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
BENZYL BUTYL PHTHALATE	SVOC	Cooling Pond	94575247SD	SD-G	0-6"	8270	12/08/1994	Sediment	0.8	U		0.8
BENZYL BUTYL PHTHALATE	SVOC	Cooling Pond	94575248SD	SD-H	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
BENZYL BUTYL PHTHALATE	SVOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8270	09/25/1996	Sediment	0.4	U	0.4	3
BENZYL BUTYL PHTHALATE	SVOC	119 ft from DP	96575205SD	96-SD5	----	8270	09/25/1996	Sediment	0.09	U	0.09	0.7
BENZYL BUTYL PHTHALATE	SVOC	147 ft from DP	96575206SD	96-SD6	----	8270	09/25/1996	Sediment	0.04	U	0.04	0.3
BENZYL BUTYL PHTHALATE	SVOC	165 ft from DP	96575208SD	96-SD8	----	8270	09/25/1996	Sediment	0.04	U	0.04	0.3
BENZYL BUTYL PHTHALATE	SVOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8270	09/25/1996	Sediment	0.04	U	0.04	0.3
BENZYL BUTYL PHTHALATE	SVOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8270	09/25/1996	Sediment	0.08	U	0.08	0.7
BENZYL BUTYL PHTHALATE	SVOC	40 ft from DP	96575202SD	96-SD2	----	8270	09/25/1996	Sediment	0.09	U	0.09	0.7
BENZYL BUTYL PHTHALATE	SVOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8270	09/25/1996	Sediment	0.09	U	0.09	0.7
BENZYL BUTYL PHTHALATE	SVOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8270	09/25/1996	Sediment	0.04	U	0.04	0.3
BENZYL BUTYL PHTHALATE	SVOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8270	09/26/1996	Sediment	0.2	U	0.2	1.2
BENZYL BUTYL PHTHALATE	SVOC	Drum Accumulation Area	94575210SL	SS 8	2'	8270	10/06/1994	Soil	0.3	U		0.3
BENZYL BUTYL PHTHALATE	SVOC	Drum Accumulation Area	94575211SL	SS 7	2'	8270	10/10/1994	Soil	0.3	U		0.3
BENZYL BUTYL PHTHALATE	SVOC	Drum Accumulation Area	94575212SL	SS 6	2'	8270	10/10/1994	Soil	0.3	U		0.3
BENZYL BUTYL PHTHALATE	SVOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8270	10/10/1994	Soil	0.5	U		0.5
BENZYL BUTYL PHTHALATE	SVOC	Drum Accumulation Area	94575215SL	SS 4	2'	8270	10/10/1994	Soil	0.3	U		0.3
BENZYL BUTYL PHTHALATE	SVOC	Drum Accumulation Area	94575216SL	SS 3	2'	8270	10/10/1994	Soil	0.3	U		0.3
BENZYL BUTYL PHTHALATE	SVOC	Drum Accumulation Area	94575217SL	SS 2	2'	8270	10/10/1994	Soil	0.3	U		0.3
BENZYL BUTYL PHTHALATE	SVOC	Drum Accumulation Area	94575218SL	SS 1	2'	8270	10/10/1994	Soil	0.3	U		0.3
BENZYL BUTYL PHTHALATE	SVOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8270	11/03/1994	Soil	0.3	U		0.3
BENZYL BUTYL PHTHALATE	SVOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8270	11/03/1994	Soil	0.3	U		0.3
BENZYL BUTYL PHTHALATE	SVOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8270	11/07/1994	Soil	0.3	U		0.3
BENZYL BUTYL PHTHALATE	SVOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8270	11/09/1994	Soil	0.3	U		0.3
BENZYL BUTYL PHTHALATE	SVOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8270	11/11/1994	Soil	0.3	U		0.3
BENZYL BUTYL PHTHALATE	SVOC	965752BH01	96575225SL	AP-3785	5	8270	10/02/1996	Soil	0.04	U	0.04	0.04
BENZYL BUTYL PHTHALATE	SVOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8270	10/03/1996	Soil	0.08	U	0.08	0.08
BENZYL BUTYL PHTHALATE	SVOC	965752BH03	96575233SL	AP-3787	5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
BENZYL BUTYL PHTHALATE	SVOC	965752BH04	96575238SL	AP-3788	2.5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
BENZYL BUTYL PHTHALATE	SVOC	965752BH04	96575239SL-AVG	AP-3788	5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
BENZYL BUTYL PHTHALATE	SVOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8270	10/06/1994	Soil	0.3	U		0.3
BENZYL BUTYL PHTHALATE	SVOC	Drum Accumulation Area	94575203SL	SS 2	6"	8270	10/06/1994	Soil	0.3	U		0.3
BENZYL BUTYL PHTHALATE	SVOC	Drum Accumulation Area	94575204SL	SS 3	6"	8270	10/06/1994	Soil	0.3	U		0.3
BENZYL BUTYL PHTHALATE	SVOC	Drum Accumulation Area	94575205SL	SS 4	6"	8270	10/06/1994	Soil	0.3	U		0.3
BENZYL BUTYL PHTHALATE	SVOC	Drum Accumulation Area	94575206SL	SS 5	6"	8270	10/06/1994	Soil	0.3	U		0.3
BENZYL BUTYL PHTHALATE	SVOC	Drum Accumulation Area	94575207SL	SS 6	6"	8270	10/06/1994	Soil	0.3	U		0.3
BENZYL BUTYL PHTHALATE	SVOC	Drum Accumulation Area	94575208SL	SS 7	6"	8270	10/06/1994	Soil	0.3	U		0.3
BENZYL BUTYL PHTHALATE	SVOC	Drum Accumulation Area	94575209SL	SS 8	6"	8270	10/06/1994	Soil	0.3	U		0.3
BENZYL BUTYL PHTHALATE	SVOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8270	11/03/1994	Soil	0.6	U		0.6
BENZYL BUTYL PHTHALATE	SVOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8270	11/03/1994	Soil	0.6	U		0.6

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
BENZYL BUTYL PHTHALATE	SVOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8270	11/07/1994	Soil	0.3	U		0.3
BENZYL BUTYL PHTHALATE	SVOC	Cooling Pond	94575231SL	AP-3503	0-6'	8270	11/08/1994	Soil	0.3	U		0.3
BENZYL BUTYL PHTHALATE	SVOC	Cooling Pond	94575235SL	AP-3504	0-2'	8270	11/09/1994	Soil	0.3	U		0.3
BENZYL BUTYL PHTHALATE	SVOC	965752BH03	96575230SL	AP-3787	0	8270	10/03/1996	Soil	0.04	U	0.04	0.3
BENZYL BUTYL PHTHALATE	SVOC	965752BH04	96575236SL-AVG	AP-3788	0	8270	10/03/1996	Soil	0.04	U	0.04	0.3
BERYLLIUM	METAL	Drum Accumulation Area	94575210SL	SS 8	2'	METALS	10/06/1994	Soil	1	U		1
BERYLLIUM	METAL	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	METALS	10/06/1994	Soil	1	U		1
BERYLLIUM	METAL	Drum Accumulation Area	94575203SL	SS 2	6"	METALS	10/06/1994	Soil	1	U		1
BERYLLIUM	METAL	Drum Accumulation Area	94575204SL	SS 3	6"	METALS	10/06/1994	Soil	1	U		1
BERYLLIUM	METAL	Drum Accumulation Area	94575205SL	SS 4	6"	METALS	10/06/1994	Soil	1	U		1
BERYLLIUM	METAL	Drum Accumulation Area	94575206SL	SS 5	6"	METALS	10/06/1994	Soil	1	U		1
BERYLLIUM	METAL	Drum Accumulation Area	94575207SL	SS 6	6"	METALS	10/06/1994	Soil	1	U		1
BERYLLIUM	METAL	Drum Accumulation Area	94575208SL	SS 7	6"	METALS	10/06/1994	Soil	1	U		1
BERYLLIUM	METAL	Drum Accumulation Area	94575209SL	SS 8	6"	METALS	10/06/1994	Soil	1	U		1
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8080	12/08/1994	Sediment	0.03	U		0.03
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Cooling Pond	94575242SD	SD-B	0-6"	8080	12/08/1994	Sediment	0.03	U		0.03
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Cooling Pond	94575243SD	SD-C	0-6"	8080	12/08/1994	Sediment	0.03	U		0.03
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Cooling Pond	94575244SD	SD-D	0-6"	8080	12/08/1994	Sediment	0.03	U		0.03
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Cooling Pond	94575245SD	SD-E	0-6"	8080	12/08/1994	Sediment	0.03	U		0.03
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Cooling Pond	94575246SD	SD-F	0-6"	8080	12/08/1994	Sediment	0.03	U		0.03
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Cooling Pond	94575247SD	SD-G	0-6"	8080	12/08/1994	Sediment	0.03	U		0.03
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Cooling Pond	94575248SD	SD-H	0-6"	8080	12/08/1994	Sediment	0.03	U		0.03
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	PEST/PCB	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8080	09/25/1996	Sediment	0.004	U	0.004	0.02
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	PEST/PCB	119 ft from DP	96575205SD	96-SD5	----	8080	09/25/1996	Sediment	0.004	U	0.004	0.02
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	PEST/PCB	147 ft from DP	96575206SD	96-SD6	----	8080	09/25/1996	Sediment	0.002	U	0.002	0.01
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	PEST/PCB	165 ft from DP	96575208SD	96-SD8	----	8080	09/25/1996	Sediment	0.002	U	0.002	0.01
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	PEST/PCB	171 ft from DP (east side)	96575209SD	96-SD9	----	8080	09/25/1996	Sediment	0.002	U	0.002	0.01
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	PEST/PCB	171 ft from DP (west side)	96575207SD	96-SD7	----	8080	09/25/1996	Sediment	0.004	U	0.004	0.02
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	PEST/PCB	40 ft from DP	96575202SD	96-SD2	----	8080	09/25/1996	Sediment	0.004	U	0.004	0.02
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	PEST/PCB	79 ft from DP	96575203SD-AVG	96-SD3	----	8080	09/25/1996	Sediment	0.004	U	0.004	0.02
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Discharge pipe (DP)	96575201SD	96-SD1	----	8080	09/25/1996	Sediment	0.002	U	0.002	0.01
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	PEST/PCB	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8080	09/26/1996	Sediment	0.004	U	0.004	0.02
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Downstream end of 35-752 pond	975752007SD-AVG	96-SD007	0	SW8081	10/21/1997	Sediment	0.003	U	0.003	0.02
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Drum Accumulation Area	94575210SL	SS 8	2'	8080	10/06/1994	Soil	0.03	U		0.03
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Drum Accumulation Area	94575211SL	SS 7	2'	8080	10/10/1994	Soil	0.03	U		0.03
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Drum Accumulation Area	94575212SL	SS 6	2'	8080	10/10/1994	Soil	0.03	U		0.03
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8080	10/10/1994	Soil	0.03	U		0.03
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Drum Accumulation Area	94575215SL	SS 4	2'	8080	10/10/1994	Soil	0.03	U		0.03
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Drum Accumulation Area	94575216SL	SS 3	2'	8080	10/10/1994	Soil	0.03	U		0.03
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Drum Accumulation Area	94575217SL	SS 2	2'	8080	10/10/1994	Soil	0.03	U		0.03
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Drum Accumulation Area	94575218SL	SS 1	2'	8080	10/10/1994	Soil	0.03	U		0.03
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8080	11/03/1994	Soil	0.03	U		0.03
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8080	11/03/1994	Soil	0.03	U		0.03
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Cooling Pond	94575229SL	AP-3502	4'-6'	8080	11/07/1994	Soil	0.03	U		0.03
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8080	11/09/1994	Soil	0.03	U		0.03
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Cooling Pond	94575240SL	AP-3501	5'-7'	8080	11/11/1994	Soil	0.03	U		0.03
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	PEST/PCB	965752BH01	96575225SL	AP-3785	5	8080	10/02/1996	Soil	0.002	U	0.002	0.002
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	PEST/PCB	965752BH03	96575231SL-AVG	AP-3787	2.5	8080	10/03/1996	Soil	0.002	U	0.002	0.002
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	PEST/PCB	965752BH03	96575233SL	AP-3787	5	8080	10/03/1996	Soil	0.002	U	0.002	0.002
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	PEST/PCB	965752BH04	96575238SL	AP-3788	2.5	8080	10/03/1996	Soil	0.002	U	0.002	0.002
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	PEST/PCB	965752BH04	96575239SL-AVG	AP-3788	5	8080	10/03/1996	Soil	0.002	U	0.002	0.002
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8080	10/06/1994	Soil	0.03	U		0.03
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Drum Accumulation Area	94575203SL	SS 2	6"	8080	10/06/1994	Soil	0.03	U		0.03
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Drum Accumulation Area	94575204SL	SS 3	6"	8080	10/06/1994	Soil	0.03	U		0.03
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Drum Accumulation Area	94575205SL	SS 4	6"	8080	10/06/1994	Soil	0.03	U		0.03
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Drum Accumulation Area	94575206SL	SS 5	6"	8080	10/06/1994	Soil	0.03	U		0.03
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Drum Accumulation Area	94575207SL	SS 6	6"	8080	10/06/1994	Soil	0.03	U		0.03
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Drum Accumulation Area	94575208SL	SS 7	6"	8080	10/06/1994	Soil	0.03	U		0.03
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Drum Accumulation Area	94575209SL	SS 8	6"	8080	10/06/1994	Soil	0.03	U		0.03
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8080	11/03/1994	Soil	0.03	U		0.03
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8080	11/03/1994	Soil	0.03	U		0.03
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8080	11/07/1994	Soil	0.03	U		0.03

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Cooling Pond	94575231SL	AP-3503	0-6'	8080	11/08/1994	Soil	0.03	U		0.03
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Cooling Pond	94575235SL	AP-3504	0-2'	8080	11/09/1994	Soil	0.03	U		0.03
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	PEST/PCB	965752BH03	96575230SL	AP-3787	0	8080	10/03/1996	Soil	0.002	U	0.002	0.01
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	PEST/PCB	965752BH04	96575236SL-AVG	AP-3788	0	8080	10/03/1996	Soil	0.006	J	0.002	0.01
BETA ENDOSULFAN	PEST/PCB	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
BETA ENDOSULFAN	PEST/PCB	Cooling Pond	94575242SD	SD-B	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
BETA ENDOSULFAN	PEST/PCB	Cooling Pond	94575243SD	SD-C	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
BETA ENDOSULFAN	PEST/PCB	Cooling Pond	94575244SD	SD-D	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
BETA ENDOSULFAN	PEST/PCB	Cooling Pond	94575245SD	SD-E	0-6"	8080	12/08/1994	Sediment	0.04	U		0.04
BETA ENDOSULFAN	PEST/PCB	Cooling Pond	94575246SD	SD-F	0-6"	8080	12/08/1994	Sediment	0.1	U		0.1
BETA ENDOSULFAN	PEST/PCB	Cooling Pond	94575247SD	SD-G	0-6"	8080	12/08/1994	Sediment	0.08	U		0.08
BETA ENDOSULFAN	PEST/PCB	Cooling Pond	94575248SD	SD-H	0-6"	8080	12/08/1994	Sediment	0.05	U		0.05
BETA ENDOSULFAN	PEST/PCB	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8080	09/25/1996	Sediment	0.0006	U	0.0006	0.02
BETA ENDOSULFAN	PEST/PCB	119 ft from DP	96575205SD	96-SD5	----	8080	09/25/1996	Sediment	0.0006	U	0.0006	0.02
BETA ENDOSULFAN	PEST/PCB	147 ft from DP	96575206SD	96-SD6	----	8080	09/25/1996	Sediment	0.0003	U	0.0003	0.01
BETA ENDOSULFAN	PEST/PCB	165 ft from DP	96575208SD	96-SD8	----	8080	09/25/1996	Sediment	0.0003	U	0.0003	0.01
BETA ENDOSULFAN	PEST/PCB	171 ft from DP (east side)	96575209SD	96-SD9	----	8080	09/25/1996	Sediment	0.0003	U	0.0003	0.01
BETA ENDOSULFAN	PEST/PCB	171 ft from DP (west side)	96575207SD	96-SD7	----	8080	09/25/1996	Sediment	0.0006	U	0.0006	0.02
BETA ENDOSULFAN	PEST/PCB	40 ft from DP	96575202SD	96-SD2	----	8080	09/25/1996	Sediment	0.0006	U	0.0006	0.02
BETA ENDOSULFAN	PEST/PCB	79 ft from DP	96575203SD-AVG	96-SD3	----	8080	09/25/1996	Sediment	0.0006	U	0.0006	0.02
BETA ENDOSULFAN	PEST/PCB	Discharge pipe (DP)	96575201SD	96-SD1	----	8080	09/25/1996	Sediment	0.0003	U	0.0003	0.01
BETA ENDOSULFAN	PEST/PCB	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8080	09/26/1996	Sediment	0.0006	U	0.0006	0.02
BETA ENDOSULFAN	PEST/PCB	Downstream end of 35-752 pond	975752007SD-AVG	96-SD007	0	SW8081	10/21/1997	Sediment	0.0003	U	0.0003	0.275
BETA ENDOSULFAN	PEST/PCB	Drum Accumulation Area	94575210SL	SS 8	2'	8080	10/06/1994	Soil	0.02	U		0.02
BETA ENDOSULFAN	PEST/PCB	Drum Accumulation Area	94575211SL	SS 7	2'	8080	10/10/1994	Soil	0.01	U		0.01
BETA ENDOSULFAN	PEST/PCB	Drum Accumulation Area	94575212SL	SS 6	2'	8080	10/10/1994	Soil	0.01	U		0.01
BETA ENDOSULFAN	PEST/PCB	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8080	10/10/1994	Soil	0.01	U		0.01
BETA ENDOSULFAN	PEST/PCB	Drum Accumulation Area	94575215SL	SS 4	2'	8080	10/10/1994	Soil	0.01	U		0.01
BETA ENDOSULFAN	PEST/PCB	Drum Accumulation Area	94575216SL	SS 3	2'	8080	10/10/1994	Soil	0.01	U		0.01
BETA ENDOSULFAN	PEST/PCB	Drum Accumulation Area	94575217SL	SS 2	2'	8080	10/10/1994	Soil	0.01	U		0.01
BETA ENDOSULFAN	PEST/PCB	Drum Accumulation Area	94575218SL	SS 1	2'	8080	10/10/1994	Soil	0.01	U		0.01
BETA ENDOSULFAN	PEST/PCB	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8080	11/03/1994	Soil	0.1	U		0.1
BETA ENDOSULFAN	PEST/PCB	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8080	11/03/1994	Soil	0.01	U		0.01
BETA ENDOSULFAN	PEST/PCB	Cooling Pond	94575229SL	AP-3502	4'-6'	8080	11/07/1994	Soil	0.01	U		0.01
BETA ENDOSULFAN	PEST/PCB	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8080	11/09/1994	Soil	0.01	U		0.01
BETA ENDOSULFAN	PEST/PCB	Cooling Pond	94575240SL	AP-3501	5'-7'	8080	11/11/1994	Soil	0.08	U		0.08
BETA ENDOSULFAN	PEST/PCB	965752BH01	96575225SL	AP-3785	5	8080	10/02/1996	Soil	0.0003	U	0.0003	0.0003
BETA ENDOSULFAN	PEST/PCB	965752BH03	96575231SL-AVG	AP-3787	2.5	8080	10/03/1996	Soil	0.0003	U	0.0003	0.0003
BETA ENDOSULFAN	PEST/PCB	965752BH03	96575233SL	AP-3787	5	8080	10/03/1996	Soil	0.0003	U	0.0003	0.0003
BETA ENDOSULFAN	PEST/PCB	965752BH04	96575238SL	AP-3788	2.5	8080	10/03/1996	Soil	0.0003	U	0.0003	0.0003
BETA ENDOSULFAN	PEST/PCB	965752BH04	96575239SL-AVG	AP-3788	5	8080	10/03/1996	Soil	0.0003	U	0.0003	0.0003
BETA ENDOSULFAN	PEST/PCB	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8080	10/06/1994	Soil	0.01	U		0.01
BETA ENDOSULFAN	PEST/PCB	Drum Accumulation Area	94575203SL	SS 2	6"	8080	10/06/1994	Soil	0.01	U		0.01
BETA ENDOSULFAN	PEST/PCB	Drum Accumulation Area	94575204SL	SS 3	6"	8080	10/06/1994	Soil	0.01	U		0.01
BETA ENDOSULFAN	PEST/PCB	Drum Accumulation Area	94575205SL	SS 4	6"	8080	10/06/1994	Soil	0.01	U		0.01
BETA ENDOSULFAN	PEST/PCB	Drum Accumulation Area	94575206SL	SS 5	6"	8080	10/06/1994	Soil	0.01	U		0.01
BETA ENDOSULFAN	PEST/PCB	Drum Accumulation Area	94575207SL	SS 6	6"	8080	10/06/1994	Soil	0.01	U		0.01
BETA ENDOSULFAN	PEST/PCB	Drum Accumulation Area	94575208SL	SS 7	6"	8080	10/06/1994	Soil	0.01	U		0.01
BETA ENDOSULFAN	PEST/PCB	Drum Accumulation Area	94575209SL	SS 8	6"	8080	10/06/1994	Soil	0.01	U		0.01
BETA ENDOSULFAN	PEST/PCB	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8080	11/03/1994	Soil	0.1	U		0.1
BETA ENDOSULFAN	PEST/PCB	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8080	11/03/1994	Soil	0.01	U		0.01
BETA ENDOSULFAN	PEST/PCB	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8080	11/07/1994	Soil	0.1	U		0.1
BETA ENDOSULFAN	PEST/PCB	Cooling Pond	94575231SL	AP-3503	0-6'	8080	11/08/1994	Soil	0.01	U		0.01
BETA ENDOSULFAN	PEST/PCB	Cooling Pond	94575235SL	AP-3504	0-2'	8080	11/09/1994	Soil	0.04	U		0.04
BETA ENDOSULFAN	PEST/PCB	965752BH03	96575230SL	AP-3787	0	8080	10/03/1996	Soil	0.0003	U	0.0003	0.01
BETA ENDOSULFAN	PEST/PCB	965752BH04	96575236SL-AVG	AP-3788	0	8080	10/03/1996	Soil	0.0003	U	0.0003	0.01
BHC (HEXACHLOROCYCLOHEXANE) ISOMERS	PEST/PCB	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
BHC (HEXACHLOROCYCLOHEXANE) ISOMERS	PEST/PCB	Cooling Pond	94575242SD	SD-B	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
BHC (HEXACHLOROCYCLOHEXANE) ISOMERS	PEST/PCB	Cooling Pond	94575243SD	SD-C	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
BHC (HEXACHLOROCYCLOHEXANE) ISOMERS	PEST/PCB	Cooling Pond	94575244SD	SD-D	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
BHC (HEXACHLOROCYCLOHEXANE) ISOMERS	PEST/PCB	Cooling Pond	94575245SD	SD-E	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
BHC (HEXACHLOROCYCLOHEXANE) ISOMERS	PEST/PCB	Cooling Pond	94575246SD	SD-F	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
BHC (HEXACHLOROCYCLOHEXANE) ISOMERS	PEST/PCB	Cooling Pond	94575247SD	SD-G	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
BHC (HEXACHLOROCYCLOHEXANE) ISOMERS	PEST/PCB	Cooling Pond	94575248SD	SD-H	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
BHC (HEXACHLOROCYCLOHEXANE) ISOMERS	PEST/PCB	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8080	09/25/1996	Sediment	0.001	U	0.001	0.02
BHC (HEXACHLOROCYCLOHEXANE) ISOMERS	PEST/PCB	119 ft from DP	96575205SD	96-SD5	----	8080	09/25/1996	Sediment	0.001	U	0.001	0.02
BHC (HEXACHLOROCYCLOHEXANE) ISOMERS	PEST/PCB	147 ft from DP	96575206SD	96-SD6	----	8080	09/25/1996	Sediment	0.0005	U	0.0005	0.01
BHC (HEXACHLOROCYCLOHEXANE) ISOMERS	PEST/PCB	165 ft from DP	96575208SD	96-SD8	----	8080	09/25/1996	Sediment	0.0005	U	0.0005	0.01
BHC (HEXACHLOROCYCLOHEXANE) ISOMERS	PEST/PCB	171 ft from DP (east side)	96575209SD	96-SD9	----	8080	09/25/1996	Sediment	0.0005	U	0.0005	0.01
BHC (HEXACHLOROCYCLOHEXANE) ISOMERS	PEST/PCB	171 ft from DP (west side)	96575207SD	96-SD7	----	8080	09/25/1996	Sediment	0.001	U	0.001	0.02
BHC (HEXACHLOROCYCLOHEXANE) ISOMERS	PEST/PCB	40 ft from DP	96575202SD	96-SD2	----	8080	09/25/1996	Sediment	0.001	U	0.001	0.02
BHC (HEXACHLOROCYCLOHEXANE) ISOMERS	PEST/PCB	79 ft from DP	96575203SD-AVG	96-SD3	----	8080	09/25/1996	Sediment	0.001	U	0.001	0.02
BHC (HEXACHLOROCYCLOHEXANE) ISOMERS	PEST/PCB	Discharge pipe (DP)	96575201SD	96-SD1	----	8080	09/25/1996	Sediment	0.0005	U	0.0005	0.01
BHC (HEXACHLOROCYCLOHEXANE) ISOMERS	PEST/PCB	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8080	09/26/1996	Sediment	0.001	U	0.001	0.02
BHC (HEXACHLOROCYCLOHEXANE) ISOMERS	PEST/PCB	Downstream end of 35-752 pond	975752007SD-AVG	96-SD007	0	SW8081	10/21/1997	Sediment	0.0006	U	0.0006	0.02
BHC (HEXACHLOROCYCLOHEXANE) ISOMERS	PEST/PCB	Drum Accumulation Area	94575210SL	SS 8	2'	8080	10/06/1994	Soil	0.01	U		0.01
BHC (HEXACHLOROCYCLOHEXANE) ISOMERS	PEST/PCB	Drum Accumulation Area	94575211SL	SS 7	2'	8080	10/10/1994	Soil	0.01	U		0.01
BHC (HEXACHLOROCYCLOHEXANE) ISOMERS	PEST/PCB	Drum Accumulation Area	94575212SL	SS 6	2'	8080	10/10/1994	Soil	0.01	U		0.01
BHC (HEXACHLOROCYCLOHEXANE) ISOMERS	PEST/PCB	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8080	10/10/1994	Soil	0.01	U		0.01
BHC (HEXACHLOROCYCLOHEXANE) ISOMERS	PEST/PCB	Drum Accumulation Area	94575215SL	SS 4	2'	8080	10/10/1994	Soil	0.01	U		0.01
BHC (HEXACHLOROCYCLOHEXANE) ISOMERS	PEST/PCB	Drum Accumulation Area	94575216SL	SS 3	2'	8080	10/10/1994	Soil	0.01	U		0.01
BHC (HEXACHLOROCYCLOHEXANE) ISOMERS	PEST/PCB	Drum Accumulation Area	94575217SL	SS 2	2'	8080	10/10/1994	Soil	0.01	U		0.01
BHC (HEXACHLOROCYCLOHEXANE) ISOMERS	PEST/PCB	Drum Accumulation Area	94575218SL	SS 1	2'	8080	10/10/1994	Soil	0.01	U		0.01
BHC (HEXACHLOROCYCLOHEXANE) ISOMERS	PEST/PCB	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8080	11/03/1994	Soil	0.01	U		0.01
BHC (HEXACHLOROCYCLOHEXANE) ISOMERS	PEST/PCB	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8080	11/03/1994	Soil	0.01	U		0.01
BHC (HEXACHLOROCYCLOHEXANE) ISOMERS	PEST/PCB	Cooling Pond	94575229SL	AP-3502	4'-6'	8080	11/07/1994	Soil	0.01	U		0.01
BHC (HEXACHLOROCYCLOHEXANE) ISOMERS	PEST/PCB	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8080	11/09/1994	Soil	0.01	U		0.01
BHC (HEXACHLOROCYCLOHEXANE) ISOMERS	PEST/PCB	Cooling Pond	94575240SL	AP-3501	5'-7'	8080	11/11/1994	Soil	0.01	U		0.01
BHC (HEXACHLOROCYCLOHEXANE) ISOMERS	PEST/PCB	965752BH01	96575225SL	AP-3785	5	8080	10/02/1996	Soil	0.0005	U	0.0005	0.0005
BHC (HEXACHLOROCYCLOHEXANE) ISOMERS	PEST/PCB	965752BH03	96575231SL-AVG	AP-3787	2.5	8080	10/03/1996	Soil	0.0005	U	0.0005	0.0005
BHC (HEXACHLOROCYCLOHEXANE) ISOMERS	PEST/PCB	965752BH03	96575233SL	AP-3787	5	8080	10/03/1996	Soil	0.0005	U	0.0005	0.0005
BHC (HEXACHLOROCYCLOHEXANE) ISOMERS	PEST/PCB	965752BH04	96575238SL	AP-3788	2.5	8080	10/03/1996	Soil	0.0005	U	0.0005	0.0005
BHC (HEXACHLOROCYCLOHEXANE) ISOMERS	PEST/PCB	965752BH04	96575239SL-AVG	AP-3788	5	8080	10/03/1996	Soil	0.0005	U	0.0005	0.0005
BHC (HEXACHLOROCYCLOHEXANE) ISOMERS	PEST/PCB	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8080	10/06/1994	Soil	0.01	U		0.01
BHC (HEXACHLOROCYCLOHEXANE) ISOMERS	PEST/PCB	Drum Accumulation Area	94575203SL	SS 2	6"	8080	10/06/1994	Soil	0.01	U		0.01
BHC (HEXACHLOROCYCLOHEXANE) ISOMERS	PEST/PCB	Drum Accumulation Area	94575204SL	SS 3	6"	8080	10/06/1994	Soil	0.01	U		0.01
BHC (HEXACHLOROCYCLOHEXANE) ISOMERS	PEST/PCB	Drum Accumulation Area	94575205SL	SS 4	6"	8080	10/06/1994	Soil	0.01	U		0.01
BHC (HEXACHLOROCYCLOHEXANE) ISOMERS	PEST/PCB	Drum Accumulation Area	94575206SL	SS 5	6"	8080	10/06/1994	Soil	0.01	U		0.01
BHC (HEXACHLOROCYCLOHEXANE) ISOMERS	PEST/PCB	Drum Accumulation Area	94575207SL	SS 6	6"	8080	10/06/1994	Soil	0.01	U		0.01
BHC (HEXACHLOROCYCLOHEXANE) ISOMERS	PEST/PCB	Drum Accumulation Area	94575208SL	SS 7	6"	8080	10/06/1994	Soil	0.01	U		0.01
BHC (HEXACHLOROCYCLOHEXANE) ISOMERS	PEST/PCB	Drum Accumulation Area	94575209SL	SS 8	6"	8080	10/06/1994	Soil	0.01	U		0.01
BHC (HEXACHLOROCYCLOHEXANE) ISOMERS	PEST/PCB	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8080	11/03/1994	Soil	0.01	U		0.01
BHC (HEXACHLOROCYCLOHEXANE) ISOMERS	PEST/PCB	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8080	11/03/1994	Soil	0.01	U		0.01
BHC (HEXACHLOROCYCLOHEXANE) ISOMERS	PEST/PCB	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8080	11/07/1994	Soil	0.01	U		0.01
BHC (HEXACHLOROCYCLOHEXANE) ISOMERS	PEST/PCB	Cooling Pond	94575231SL	AP-3503	0-6'	8080	11/08/1994	Soil	0.01	U		0.01
BHC (HEXACHLOROCYCLOHEXANE) ISOMERS	PEST/PCB	Cooling Pond	94575235SL	AP-3504	0-2'	8080	11/09/1994	Soil	0.01	U		0.01
BHC (HEXACHLOROCYCLOHEXANE) ISOMERS	PEST/PCB	965752BH03	96575230SL	AP-3787	0	8080	10/03/1996	Soil	0.0005	U	0.0005	0.01
BHC (HEXACHLOROCYCLOHEXANE) ISOMERS	PEST/PCB	965752BH04	96575236SL-AVG	AP-3788	0	8080	10/03/1996	Soil	0.0005	U	0.0005	0.01
bis(2-CHLOROETHOXY) METHANE	SVOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
bis(2-CHLOROETHOXY) METHANE	SVOC	Cooling Pond	94575242SD	SD-B	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
bis(2-CHLOROETHOXY) METHANE	SVOC	Cooling Pond	94575243SD	SD-C	0-6"	8270	12/08/1994	Sediment	4	U		4
bis(2-CHLOROETHOXY) METHANE	SVOC	Cooling Pond	94575244SD	SD-D	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
bis(2-CHLOROETHOXY) METHANE	SVOC	Cooling Pond	94575245SD	SD-E	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
bis(2-CHLOROETHOXY) METHANE	SVOC	Cooling Pond	94575246SD	SD-F	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
bis(2-CHLOROETHOXY) METHANE	SVOC	Cooling Pond	94575247SD	SD-G	0-6"	8270	12/08/1994	Sediment	0.8	U		0.8
bis(2-CHLOROETHOXY) METHANE	SVOC	Cooling Pond	94575248SD	SD-H	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
bis(2-CHLOROETHOXY) METHANE	SVOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8270	09/25/1996	Sediment	0.5	U	0.5	3
bis(2-CHLOROETHOXY) METHANE	SVOC	119 ft from DP	96575205SD	96-SD5	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7
bis(2-CHLOROETHOXY) METHANE	SVOC	147 ft from DP	96575206SD	96-SD6	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
bis(2-CHLOROETHOXY) METHANE	SVOC	165 ft from DP	96575208SD	96-SD8	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
bis(2-CHLOROETHOXY) METHANE	SVOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
bis(2-CHLOROETHOXY) METHANE	SVOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8270	09/25/1996	Sediment	0.1	U	0.1	0.7
bis(2-CHLOROETHOXY) METHANE	SVOC	40 ft from DP	96575202SD	96-SD2	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7
bis(2-CHLOROETHOXY) METHANE	SVOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
bis(2-CHLOROETHOXY) METHANE	SVOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
bis(2-CHLOROETHOXY) METHANE	SVOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8270	09/26/1996	Sediment	0.2	U	0.2	1.2
bis(2-CHLOROETHOXY) METHANE	SVOC	Drum Accumulation Area	94575210SL	SS 8	2'	8270	10/06/1994	Soil	0.3	U		0.3
bis(2-CHLOROETHOXY) METHANE	SVOC	Drum Accumulation Area	94575211SL	SS 7	2'	8270	10/10/1994	Soil	0.3	U		0.3
bis(2-CHLOROETHOXY) METHANE	SVOC	Drum Accumulation Area	94575212SL	SS 6	2'	8270	10/10/1994	Soil	0.3	U		0.3
bis(2-CHLOROETHOXY) METHANE	SVOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8270	10/10/1994	Soil	0.5	U		0.5
bis(2-CHLOROETHOXY) METHANE	SVOC	Drum Accumulation Area	94575215SL	SS 4	2'	8270	10/10/1994	Soil	0.3	U		0.3
bis(2-CHLOROETHOXY) METHANE	SVOC	Drum Accumulation Area	94575216SL	SS 3	2'	8270	10/10/1994	Soil	0.3	U		0.3
bis(2-CHLOROETHOXY) METHANE	SVOC	Drum Accumulation Area	94575217SL	SS 2	2'	8270	10/10/1994	Soil	0.3	U		0.3
bis(2-CHLOROETHOXY) METHANE	SVOC	Drum Accumulation Area	94575218SL	SS 1	2'	8270	10/10/1994	Soil	0.3	U		0.3
bis(2-CHLOROETHOXY) METHANE	SVOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8270	11/03/1994	Soil	0.3	U		0.3
bis(2-CHLOROETHOXY) METHANE	SVOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8270	11/03/1994	Soil	0.3	U		0.3
bis(2-CHLOROETHOXY) METHANE	SVOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8270	11/07/1994	Soil	0.3	U		0.3
bis(2-CHLOROETHOXY) METHANE	SVOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8270	11/09/1994	Soil	0.3	U		0.3
bis(2-CHLOROETHOXY) METHANE	SVOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8270	11/11/1994	Soil	0.3	U		0.3
bis(2-CHLOROETHOXY) METHANE	SVOC	965752BH01	96575225SL	AP-3785	5	8270	10/02/1996	Soil	0.05	U	0.05	0.05
bis(2-CHLOROETHOXY) METHANE	SVOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8270	10/03/1996	Soil	0.1	U	0.1	0.1
bis(2-CHLOROETHOXY) METHANE	SVOC	965752BH03	96575233SL	AP-3787	5	8270	10/03/1996	Soil	0.05	U	0.05	0.05
bis(2-CHLOROETHOXY) METHANE	SVOC	965752BH04	96575238SL	AP-3788	2.5	8270	10/03/1996	Soil	0.05	U	0.05	0.05
bis(2-CHLOROETHOXY) METHANE	SVOC	965752BH04	96575239SL-AVG	AP-3788	5	8270	10/03/1996	Soil	0.05	U	0.05	0.05
bis(2-CHLOROETHOXY) METHANE	SVOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8270	10/06/1994	Soil	0.3	U		0.3
bis(2-CHLOROETHOXY) METHANE	SVOC	Drum Accumulation Area	94575203SL	SS 2	6"	8270	10/06/1994	Soil	0.3	U		0.3
bis(2-CHLOROETHOXY) METHANE	SVOC	Drum Accumulation Area	94575204SL	SS 3	6"	8270	10/06/1994	Soil	0.3	U		0.3
bis(2-CHLOROETHOXY) METHANE	SVOC	Drum Accumulation Area	94575205SL	SS 4	6"	8270	10/06/1994	Soil	0.3	U		0.3
bis(2-CHLOROETHOXY) METHANE	SVOC	Drum Accumulation Area	94575206SL	SS 5	6"	8270	10/06/1994	Soil	0.3	U		0.3
bis(2-CHLOROETHOXY) METHANE	SVOC	Drum Accumulation Area	94575207SL	SS 6	6"	8270	10/06/1994	Soil	0.3	U		0.3
bis(2-CHLOROETHOXY) METHANE	SVOC	Drum Accumulation Area	94575208SL	SS 7	6"	8270	10/06/1994	Soil	0.3	U		0.3
bis(2-CHLOROETHOXY) METHANE	SVOC	Drum Accumulation Area	94575209SL	SS 8	6"	8270	10/06/1994	Soil	0.3	U		0.3
bis(2-CHLOROETHOXY) METHANE	SVOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8270	11/03/1994	Soil	0.6	U		0.6
bis(2-CHLOROETHOXY) METHANE	SVOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8270	11/03/1994	Soil	0.6	U		0.6
bis(2-CHLOROETHOXY) METHANE	SVOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8270	11/07/1994	Soil	0.3	U		0.3
bis(2-CHLOROETHOXY) METHANE	SVOC	Cooling Pond	94575231SL	AP-3503	0-6'	8270	11/08/1994	Soil	0.3	U		0.3
bis(2-CHLOROETHOXY) METHANE	SVOC	Cooling Pond	94575235SL	AP-3504	0-2'	8270	11/09/1994	Soil	0.3	U		0.3
bis(2-CHLOROETHOXY) METHANE	SVOC	965752BH03	96575230SL	AP-3787	0	8270	10/03/1996	Soil	0.05	U	0.05	0.3
bis(2-CHLOROETHOXY) METHANE	SVOC	965752BH04	96575236SL-AVG	AP-3788	0	8270	10/03/1996	Soil	0.05	U	0.05	0.3
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SVOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SVOC	Cooling Pond	94575242SD	SD-B	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SVOC	Cooling Pond	94575243SD	SD-C	0-6"	8270	12/08/1994	Sediment	4	U		4
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SVOC	Cooling Pond	94575244SD	SD-D	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SVOC	Cooling Pond	94575245SD	SD-E	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SVOC	Cooling Pond	94575246SD	SD-F	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SVOC	Cooling Pond	94575247SD	SD-G	0-6"	8270	12/08/1994	Sediment	0.8	U		0.8
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SVOC	Cooling Pond	94575248SD	SD-H	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SVOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8270	09/25/1996	Sediment	0.5	U	0.5	3
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SVOC	119 ft from DP	96575205SD	96-SD5	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SVOC	147 ft from DP	96575206SD	96-SD6	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SVOC	165 ft from DP	96575208SD	96-SD8	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SVOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SVOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8270	09/25/1996	Sediment	0.1	U	0.1	0.7
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SVOC	40 ft from DP	96575202SD	96-SD2	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SVOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SVOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SVOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8270	09/26/1996	Sediment	0.2	U	0.2	1.2
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SVOC	Drum Accumulation Area	94575210SL	SS 8	2'	8270	10/06/1994	Soil	0.3	U		0.3
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SVOC	Drum Accumulation Area	94575211SL	SS 7	2'	8270	10/10/1994	Soil	0.3	U		0.3
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SVOC	Drum Accumulation Area	94575212SL	SS 6	2'	8270	10/10/1994	Soil	0.3	U		0.3
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SVOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8270	10/10/1994	Soil	0.5	U		0.5
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SVOC	Drum Accumulation Area	94575215SL	SS 4	2'	8270	10/10/1994	Soil	0.3	U		0.3
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SVOC	Drum Accumulation Area	94575216SL	SS 3	2'	8270	10/10/1994	Soil	0.3	U		0.3
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SVOC	Drum Accumulation Area	94575217SL	SS 2	2'	8270	10/10/1994	Soil	0.3	U		0.3
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SVOC	Drum Accumulation Area	94575218SL	SS 1	2'	8270	10/10/1994	Soil	0.3	U		0.3
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SVOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8270	11/03/1994	Soil	0.3	U		0.3

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SVOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8270	11/03/1994	Soil	0.3	U		0.3
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SVOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8270	11/07/1994	Soil	0.3	U		0.3
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SVOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8270	11/09/1994	Soil	0.3	U		0.3
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SVOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8270	11/11/1994	Soil	0.3	U		0.3
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SVOC	965752BH01	96575225SL	AP-3785	5	8270	10/02/1996	Soil	0.05	U	0.05	0.05
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SVOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8270	10/03/1996	Soil	0.1	U	0.1	0.1
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SVOC	965752BH03	96575233SL	AP-3787	5	8270	10/03/1996	Soil	0.05	U	0.05	0.05
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SVOC	965752BH04	96575238SL	AP-3788	2.5	8270	10/03/1996	Soil	0.05	U	0.05	0.05
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SVOC	965752BH04	96575239SL-AVG	AP-3788	5	8270	10/03/1996	Soil	0.05	U	0.05	0.05
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SVOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8270	10/06/1994	Soil	0.3	U		0.3
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SVOC	Drum Accumulation Area	94575203SL	SS 2	6"	8270	10/06/1994	Soil	0.3	U		0.3
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SVOC	Drum Accumulation Area	94575204SL	SS 3	6"	8270	10/06/1994	Soil	0.3	U		0.3
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SVOC	Drum Accumulation Area	94575205SL	SS 4	6"	8270	10/06/1994	Soil	0.3	U		0.3
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SVOC	Drum Accumulation Area	94575206SL	SS 5	6"	8270	10/06/1994	Soil	0.3	U		0.3
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SVOC	Drum Accumulation Area	94575207SL	SS 6	6"	8270	10/06/1994	Soil	0.3	U		0.3
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SVOC	Drum Accumulation Area	94575208SL	SS 7	6"	8270	10/06/1994	Soil	0.3	U		0.3
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SVOC	Drum Accumulation Area	94575209SL	SS 8	6"	8270	10/06/1994	Soil	0.3	U		0.3
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SVOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8270	11/03/1994	Soil	0.6	U		0.6
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SVOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8270	11/03/1994	Soil	0.6	U		0.6
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SVOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8270	11/07/1994	Soil	0.3	U		0.3
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SVOC	Cooling Pond	94575231SL	AP-3503	0-6'	8270	11/08/1994	Soil	0.3	U		0.3
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SVOC	Cooling Pond	94575235SL	AP-3504	0-2'	8270	11/09/1994	Soil	0.3	U		0.3
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SVOC	965752BH03	96575230SL	AP-3787	0	8270	10/03/1996	Soil	0.05	U	0.05	0.3
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SVOC	965752BH04	96575236SL-AVG	AP-3788	0	8270	10/03/1996	Soil	0.05	U	0.05	0.3
bis(2-CHLOROISOPROPYL) ETHER	SVOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
bis(2-CHLOROISOPROPYL) ETHER	SVOC	Cooling Pond	94575242SD	SD-B	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
bis(2-CHLOROISOPROPYL) ETHER	SVOC	Cooling Pond	94575243SD	SD-C	0-6"	8270	12/08/1994	Sediment	4	U		4
bis(2-CHLOROISOPROPYL) ETHER	SVOC	Cooling Pond	94575244SD	SD-D	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
bis(2-CHLOROISOPROPYL) ETHER	SVOC	Cooling Pond	94575245SD	SD-E	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
bis(2-CHLOROISOPROPYL) ETHER	SVOC	Cooling Pond	94575246SD	SD-F	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
bis(2-CHLOROISOPROPYL) ETHER	SVOC	Cooling Pond	94575247SD	SD-G	0-6"	8270	12/08/1994	Sediment	0.8	U		0.8
bis(2-CHLOROISOPROPYL) ETHER	SVOC	Cooling Pond	94575248SD	SD-H	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
bis(2-CHLOROISOPROPYL) ETHER	SVOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8270	09/25/1996	Sediment	0.5	U	0.5	3
bis(2-CHLOROISOPROPYL) ETHER	SVOC	119 ft from DP	96575205SD	96-SD5	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7
bis(2-CHLOROISOPROPYL) ETHER	SVOC	147 ft from DP	96575206SD	96-SD6	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
bis(2-CHLOROISOPROPYL) ETHER	SVOC	165 ft from DP	96575208SD	96-SD8	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
bis(2-CHLOROISOPROPYL) ETHER	SVOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
bis(2-CHLOROISOPROPYL) ETHER	SVOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8270	09/25/1996	Sediment	0.1	U	0.1	0.7
bis(2-CHLOROISOPROPYL) ETHER	SVOC	40 ft from DP	96575202SD	96-SD2	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7
bis(2-CHLOROISOPROPYL) ETHER	SVOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7
bis(2-CHLOROISOPROPYL) ETHER	SVOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
bis(2-CHLOROISOPROPYL) ETHER	SVOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8270	09/26/1996	Sediment	0.2	U	0.2	1.2
bis(2-CHLOROISOPROPYL) ETHER	SVOC	Drum Accumulation Area	94575210SL	SS 8	2'	8270	10/06/1994	Soil	0.3	U		0.3
bis(2-CHLOROISOPROPYL) ETHER	SVOC	Drum Accumulation Area	94575211SL	SS 7	2'	8270	10/10/1994	Soil	0.3	U		0.3
bis(2-CHLOROISOPROPYL) ETHER	SVOC	Drum Accumulation Area	94575212SL	SS 6	2'	8270	10/10/1994	Soil	0.3	U		0.3
bis(2-CHLOROISOPROPYL) ETHER	SVOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8270	10/10/1994	Soil	0.5	U		0.5
bis(2-CHLOROISOPROPYL) ETHER	SVOC	Drum Accumulation Area	94575215SL	SS 4	2'	8270	10/10/1994	Soil	0.3	U		0.3
bis(2-CHLOROISOPROPYL) ETHER	SVOC	Drum Accumulation Area	94575216SL	SS 3	2'	8270	10/10/1994	Soil	0.3	U		0.3
bis(2-CHLOROISOPROPYL) ETHER	SVOC	Drum Accumulation Area	94575217SL	SS 2	2'	8270	10/10/1994	Soil	0.3	U		0.3
bis(2-CHLOROISOPROPYL) ETHER	SVOC	Drum Accumulation Area	94575218SL	SS 1	2'	8270	10/10/1994	Soil	0.3	U		0.3
bis(2-CHLOROISOPROPYL) ETHER	SVOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8270	11/03/1994	Soil	0.3	U		0.3
bis(2-CHLOROISOPROPYL) ETHER	SVOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8270	11/03/1994	Soil	0.3	U		0.3
bis(2-CHLOROISOPROPYL) ETHER	SVOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8270	11/07/1994	Soil	0.3	U		0.3
bis(2-CHLOROISOPROPYL) ETHER	SVOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8270	11/09/1994	Soil	0.3	U		0.3
bis(2-CHLOROISOPROPYL) ETHER	SVOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8270	11/11/1994	Soil	0.3	U		0.3
bis(2-CHLOROISOPROPYL) ETHER	SVOC	965752BH01	96575225SL	AP-3785	5	8270	10/02/1996	Soil	0.05	U	0.05	0.05
bis(2-CHLOROISOPROPYL) ETHER	SVOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8270	10/03/1996	Soil	0.1	U	0.1	0.1
bis(2-CHLOROISOPROPYL) ETHER	SVOC	965752BH03	96575233SL	AP-3787	5	8270	10/03/1996	Soil	0.05	U	0.05	0.05
bis(2-CHLOROISOPROPYL) ETHER	SVOC	965752BH04	96575238SL	AP-3788	2.5	8270	10/03/1996	Soil	0.05	U	0.05	0.05
bis(2-CHLOROISOPROPYL) ETHER	SVOC	965752BH04	96575239SL-AVG	AP-3788	5	8270	10/03/1996	Soil	0.05	U	0.05	0.05
bis(2-CHLOROISOPROPYL) ETHER	SVOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8270	10/06/1994	Soil	0.3	U		0.3
bis(2-CHLOROISOPROPYL) ETHER	SVOC	Drum Accumulation Area	94575203SL	SS 2	6"	8270	10/06/1994	Soil	0.3	U		0.3

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
bis(2-CHLOROISOPROPYL) ETHER	SVOC	Drum Accumulation Area	94575204SL	SS 3	6"	8270	10/06/1994	Soil	0.3	U		0.3
bis(2-CHLOROISOPROPYL) ETHER	SVOC	Drum Accumulation Area	94575205SL	SS 4	6"	8270	10/06/1994	Soil	0.3	U		0.3
bis(2-CHLOROISOPROPYL) ETHER	SVOC	Drum Accumulation Area	94575206SL	SS 5	6"	8270	10/06/1994	Soil	0.3	U		0.3
bis(2-CHLOROISOPROPYL) ETHER	SVOC	Drum Accumulation Area	94575207SL	SS 6	6"	8270	10/06/1994	Soil	0.3	U		0.3
bis(2-CHLOROISOPROPYL) ETHER	SVOC	Drum Accumulation Area	94575208SL	SS 7	6"	8270	10/06/1994	Soil	0.3	U		0.3
bis(2-CHLOROISOPROPYL) ETHER	SVOC	Drum Accumulation Area	94575209SL	SS 8	6"	8270	10/06/1994	Soil	0.3	U		0.3
bis(2-CHLOROISOPROPYL) ETHER	SVOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8270	11/03/1994	Soil	0.6	U		0.6
bis(2-CHLOROISOPROPYL) ETHER	SVOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8270	11/03/1994	Soil	0.6	U		0.6
bis(2-CHLOROISOPROPYL) ETHER	SVOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8270	11/07/1994	Soil	0.3	U		0.3
bis(2-CHLOROISOPROPYL) ETHER	SVOC	Cooling Pond	94575231SL	AP-3503	0-6'	8270	11/08/1994	Soil	0.3	U		0.3
bis(2-CHLOROISOPROPYL) ETHER	SVOC	Cooling Pond	94575235SL	AP-3504	0-2'	8270	11/09/1994	Soil	0.3	U		0.3
bis(2-CHLOROISOPROPYL) ETHER	SVOC	965752BH03	96575230SL	AP-3787	0	8270	10/03/1996	Soil	0.05	U	0.05	0.3
bis(2-CHLOROISOPROPYL) ETHER	SVOC	965752BH04	96575236SL-AVG	AP-3788	0	8270	10/03/1996	Soil	0.05	U	0.05	0.3
bis(2-ETHYLHEXYL) PHTHALATE	SVOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
bis(2-ETHYLHEXYL) PHTHALATE	SVOC	Cooling Pond	94575242SD	SD-B	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
bis(2-ETHYLHEXYL) PHTHALATE	SVOC	Cooling Pond	94575243SD	SD-C	0-6"	8270	12/08/1994	Sediment	4	U		4
bis(2-ETHYLHEXYL) PHTHALATE	SVOC	Cooling Pond	94575244SD	SD-D	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
bis(2-ETHYLHEXYL) PHTHALATE	SVOC	Cooling Pond	94575245SD	SD-E	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
bis(2-ETHYLHEXYL) PHTHALATE	SVOC	Cooling Pond	94575246SD	SD-F	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
bis(2-ETHYLHEXYL) PHTHALATE	SVOC	Cooling Pond	94575247SD	SD-G	0-6"	8270	12/08/1994	Sediment	0.8	U		0.8
bis(2-ETHYLHEXYL) PHTHALATE	SVOC	Cooling Pond	94575248SD	SD-H	0-6"	8270	12/08/1994	Sediment	0.4	=		0.3
bis(2-ETHYLHEXYL) PHTHALATE	SVOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8270	09/25/1996	Sediment	2	J	0.5	3
bis(2-ETHYLHEXYL) PHTHALATE	SVOC	119 ft from DP	96575205SD	96-SD5	----	8270	09/25/1996	Sediment	0.2	J	0.2	0.7
bis(2-ETHYLHEXYL) PHTHALATE	SVOC	147 ft from DP	96575206SD	96-SD6	----	8270	09/25/1996	Sediment	0.2	J	0.05	0.3
bis(2-ETHYLHEXYL) PHTHALATE	SVOC	165 ft from DP	96575208SD	96-SD8	----	8270	09/25/1996	Sediment	0.1	J	0.05	0.3
bis(2-ETHYLHEXYL) PHTHALATE	SVOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8270	09/25/1996	Sediment	0.3	=	0.05	0.3
bis(2-ETHYLHEXYL) PHTHALATE	SVOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8270	09/25/1996	Sediment	0.2	J	0.1	0.7
bis(2-ETHYLHEXYL) PHTHALATE	SVOC	40 ft from DP	96575202SD	96-SD2	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7
bis(2-ETHYLHEXYL) PHTHALATE	SVOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8270	09/25/1996	Sediment	0.5	J	0.2	0.7
bis(2-ETHYLHEXYL) PHTHALATE	SVOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
bis(2-ETHYLHEXYL) PHTHALATE	SVOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8270	09/26/1996	Sediment	7	B	0.2	1.2
bis(2-ETHYLHEXYL) PHTHALATE	SVOC	Drum Accumulation Area	94575210SL	SS 8	2'	8270	10/06/1994	Soil	0.3	U		0.3
bis(2-ETHYLHEXYL) PHTHALATE	SVOC	Drum Accumulation Area	94575211SL	SS 7	2'	8270	10/10/1994	Soil	0.3	U		0.3
bis(2-ETHYLHEXYL) PHTHALATE	SVOC	Drum Accumulation Area	94575212SL	SS 6	2'	8270	10/10/1994	Soil	0.3	U		0.3
bis(2-ETHYLHEXYL) PHTHALATE	SVOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8270	10/10/1994	Soil	0.5	U		0.5
bis(2-ETHYLHEXYL) PHTHALATE	SVOC	Drum Accumulation Area	94575215SL	SS 4	2'	8270	10/10/1994	Soil	0.3	U		0.3
bis(2-ETHYLHEXYL) PHTHALATE	SVOC	Drum Accumulation Area	94575216SL	SS 3	2'	8270	10/10/1994	Soil	0.3	U		0.3
bis(2-ETHYLHEXYL) PHTHALATE	SVOC	Drum Accumulation Area	94575217SL	SS 2	2'	8270	10/10/1994	Soil	0.3	U		0.3
bis(2-ETHYLHEXYL) PHTHALATE	SVOC	Drum Accumulation Area	94575218SL	SS 1	2'	8270	10/10/1994	Soil	0.3	U		0.3
bis(2-ETHYLHEXYL) PHTHALATE	SVOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8270	11/03/1994	Soil	0.3	U		0.3
bis(2-ETHYLHEXYL) PHTHALATE	SVOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8270	11/03/1994	Soil	0.3	U		0.3
bis(2-ETHYLHEXYL) PHTHALATE	SVOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8270	11/07/1994	Soil	0.3	U		0.3
bis(2-ETHYLHEXYL) PHTHALATE	SVOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8270	11/09/1994	Soil	0.3	U		0.3
bis(2-ETHYLHEXYL) PHTHALATE	SVOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8270	11/11/1994	Soil	0.3	U		0.3
bis(2-ETHYLHEXYL) PHTHALATE	SVOC	965752BH01	96575225SL	AP-3785	5	8270	10/02/1996	Soil	0.05	U	0.05	0.05
bis(2-ETHYLHEXYL) PHTHALATE	SVOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8270	10/03/1996	Soil	0.15	J	0.1	0.1
bis(2-ETHYLHEXYL) PHTHALATE	SVOC	965752BH03	96575233SL	AP-3787	5	8270	10/03/1996	Soil	0.05	U	0.05	0.05
bis(2-ETHYLHEXYL) PHTHALATE	SVOC	965752BH04	96575238SL	AP-3788	2.5	8270	10/03/1996	Soil	0.05	U	0.05	0.05
bis(2-ETHYLHEXYL) PHTHALATE	SVOC	965752BH04	96575239SL-AVG	AP-3788	5	8270	10/03/1996	Soil	0.1	J	0.05	0.05
bis(2-ETHYLHEXYL) PHTHALATE	SVOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8270	10/06/1994	Soil	0.3	U		0.3
bis(2-ETHYLHEXYL) PHTHALATE	SVOC	Drum Accumulation Area	94575203SL	SS 2	6"	8270	10/06/1994	Soil	0.3	U		0.3
bis(2-ETHYLHEXYL) PHTHALATE	SVOC	Drum Accumulation Area	94575204SL	SS 3	6"	8270	10/06/1994	Soil	0.3	U		0.3
bis(2-ETHYLHEXYL) PHTHALATE	SVOC	Drum Accumulation Area	94575205SL	SS 4	6"	8270	10/06/1994	Soil	0.3	U		0.3
bis(2-ETHYLHEXYL) PHTHALATE	SVOC	Drum Accumulation Area	94575206SL	SS 5	6"	8270	10/06/1994	Soil	0.3	U		0.3
bis(2-ETHYLHEXYL) PHTHALATE	SVOC	Drum Accumulation Area	94575207SL	SS 6	6"	8270	10/06/1994	Soil	0.3	U		0.3
bis(2-ETHYLHEXYL) PHTHALATE	SVOC	Drum Accumulation Area	94575208SL	SS 7	6"	8270	10/06/1994	Soil	0.3	U		0.3
bis(2-ETHYLHEXYL) PHTHALATE	SVOC	Drum Accumulation Area	94575209SL	SS 8	6"	8270	10/06/1994	Soil	0.3	U		0.3
bis(2-ETHYLHEXYL) PHTHALATE	SVOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8270	11/03/1994	Soil	0.6	U		0.6
bis(2-ETHYLHEXYL) PHTHALATE	SVOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8270	11/03/1994	Soil	0.79787234	=		0.3
bis(2-ETHYLHEXYL) PHTHALATE	SVOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8270	11/07/1994	Soil	0.3	U		0.3
bis(2-ETHYLHEXYL) PHTHALATE	SVOC	Cooling Pond	94575231SL	AP-3503	0-6'	8270	11/08/1994	Soil	0.3	U		0.3
bis(2-ETHYLHEXYL) PHTHALATE	SVOC	Cooling Pond	94575235SL	AP-3504	0-2'	8270	11/09/1994	Soil	0.3	U		0.3

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
bis(2-ETHYLHEXYL) PHTHALATE	SVOC	965752BH03	96575230SL	AP-3787	0	8270	10/03/1996	Soil	0.1	J	0.05	0.3
bis(2-ETHYLHEXYL) PHTHALATE	SVOC	965752BH04	96575236SL-AVG	AP-3788	0	8270	10/03/1996	Soil	0.1	J	0.05	0.3
BROMOBENZENE	VOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
BROMOBENZENE	VOC	Cooling Pond	94575242SD	SD-B	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
BROMOBENZENE	VOC	Cooling Pond	94575243SD	SD-C	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
BROMOBENZENE	VOC	Cooling Pond	94575244SD	SD-D	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
BROMOBENZENE	VOC	Cooling Pond	94575245SD	SD-E	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
BROMOBENZENE	VOC	Cooling Pond	94575246SD	SD-F	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
BROMOBENZENE	VOC	Cooling Pond	94575247SD	SD-G	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
BROMOBENZENE	VOC	Cooling Pond	94575248SD	SD-H	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
BROMOBENZENE	VOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
BROMOBENZENE	VOC	119 ft from DP	96575205SD	96-SD5	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
BROMOBENZENE	VOC	147 ft from DP	96575206SD	96-SD6	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
BROMOBENZENE	VOC	165 ft from DP	96575208SD	96-SD8	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
BROMOBENZENE	VOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
BROMOBENZENE	VOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8260	09/25/1996	Sediment	0.006	U	0.006	0.015
BROMOBENZENE	VOC	40 ft from DP	96575202SD	96-SD2	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
BROMOBENZENE	VOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
BROMOBENZENE	VOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
BROMOBENZENE	VOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8260	09/26/1996	Sediment	0.004	U	0.004	0.01
BROMOBENZENE	VOC	Drum Accumulation Area	94575210SL	SS 8	2'	8260	10/06/1994	Soil	0.005	U		0.005
BROMOBENZENE	VOC	Drum Accumulation Area	94575211SL	SS 7	2'	8260	10/10/1994	Soil	0.005	U		0.005
BROMOBENZENE	VOC	Drum Accumulation Area	94575212SL	SS 6	2'	8260	10/10/1994	Soil	0.005	U		0.005
BROMOBENZENE	VOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8260	10/10/1994	Soil	0.005	U		0.005
BROMOBENZENE	VOC	Drum Accumulation Area	94575215SL	SS 4	2'	8260	10/10/1994	Soil	0.005	U		0.005
BROMOBENZENE	VOC	Drum Accumulation Area	94575216SL	SS 3	2'	8260	10/10/1994	Soil	0.005	U		0.005
BROMOBENZENE	VOC	Drum Accumulation Area	94575217SL	SS 2	2'	8260	10/10/1994	Soil	0.005	U		0.005
BROMOBENZENE	VOC	Drum Accumulation Area	94575218SL	SS 1	2'	8260	10/10/1994	Soil	0.005	U		0.005
BROMOBENZENE	VOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8260	11/03/1994	Soil	0.005	U		0.005
BROMOBENZENE	VOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8260	11/03/1994	Soil	0.005	U		0.005
BROMOBENZENE	VOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8260	11/07/1994	Soil	0.005	U		0.005
BROMOBENZENE	VOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8260	11/09/1994	Soil	0.005	U		0.005
BROMOBENZENE	VOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8260	11/11/1994	Soil	0.005	U		0.005
BROMOBENZENE	VOC	965752BH01	96575225SL	AP-3785	5	8260	10/02/1996	Soil	0.002	U	0.002	0.002
BROMOBENZENE	VOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
BROMOBENZENE	VOC	965752BH04	96575238SL	AP-3788	2.5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
BROMOBENZENE	VOC	965752BH04	96575239SL-AVG	AP-3788	5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
BROMOBENZENE	VOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8260	10/06/1994	Soil	0.005	U		0.005
BROMOBENZENE	VOC	Drum Accumulation Area	94575203SL	SS 2	6"	8260	10/06/1994	Soil	0.005	U		0.005
BROMOBENZENE	VOC	Drum Accumulation Area	94575204SL	SS 3	6"	8260	10/06/1994	Soil	0.005	U		0.005
BROMOBENZENE	VOC	Drum Accumulation Area	94575205SL	SS 4	6"	8260	10/06/1994	Soil	0.005	U		0.005
BROMOBENZENE	VOC	Drum Accumulation Area	94575206SL	SS 5	6"	8260	10/06/1994	Soil	0.005	U		0.005
BROMOBENZENE	VOC	Drum Accumulation Area	94575207SL	SS 6	6"	8260	10/06/1994	Soil	0.005	U		0.005
BROMOBENZENE	VOC	Drum Accumulation Area	94575208SL	SS 7	6"	8260	10/06/1994	Soil	0.005	U		0.005
BROMOBENZENE	VOC	Drum Accumulation Area	94575209SL	SS 8	6"	8260	10/06/1994	Soil	0.005	U		0.005
BROMOBENZENE	VOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8260	11/03/1994	Soil	0.005	U		0.005
BROMOBENZENE	VOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8260	11/03/1994	Soil	0.005	U		0.005
BROMOBENZENE	VOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8260	11/07/1994	Soil	0.005	U		0.005
BROMOBENZENE	VOC	Cooling Pond	94575231SL	AP-3503	0-6'	8260	11/08/1994	Soil	0.005	U		0.005
BROMOBENZENE	VOC	Cooling Pond	94575235SL	AP-3504	0-2'	8260	11/09/1994	Soil	0.005	U		0.005
BROMOBENZENE	VOC	965752BH03	96575230SL	AP-3787	0	8260	10/03/1996	Soil	0.002	U	0.002	0.005
BROMOBENZENE	VOC	965752BH04	96575236SL-AVG	AP-3788	0	8260	10/03/1996	Soil	0.002	U	0.002	0.005
BROMOCHLOROMETHANE	VOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
BROMOCHLOROMETHANE	VOC	Cooling Pond	94575242SD	SD-B	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
BROMOCHLOROMETHANE	VOC	Cooling Pond	94575243SD	SD-C	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
BROMOCHLOROMETHANE	VOC	Cooling Pond	94575244SD	SD-D	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
BROMOCHLOROMETHANE	VOC	Cooling Pond	94575245SD	SD-E	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
BROMOCHLOROMETHANE	VOC	Cooling Pond	94575246SD	SD-F	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
BROMOCHLOROMETHANE	VOC	Cooling Pond	94575247SD	SD-G	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
BROMOCHLOROMETHANE	VOC	Cooling Pond	94575248SD	SD-H	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
BROMOCHLOROMETHANE	VOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
BROMOCHLOROMETHANE	VOC	119 ft from DP	96575205SD	96-SD5	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01

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Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
BROMOCHLOROMETHANE	VOC	147 ft from DP	96575206SD	96-SD6	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
BROMOCHLOROMETHANE	VOC	165 ft from DP	96575208SD	96-SD8	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
BROMOCHLOROMETHANE	VOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
BROMOCHLOROMETHANE	VOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8260	09/25/1996	Sediment	0.006	U	0.006	0.015
BROMOCHLOROMETHANE	VOC	40 ft from DP	96575202SD	96-SD2	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
BROMOCHLOROMETHANE	VOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
BROMOCHLOROMETHANE	VOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
BROMOCHLOROMETHANE	VOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8260	09/26/1996	Sediment	0.004	U	0.004	0.01
BROMOCHLOROMETHANE	VOC	Drum Accumulation Area	94575210SL	SS 8	2'	8260	10/06/1994	Soil	0.005	U		0.005
BROMOCHLOROMETHANE	VOC	Drum Accumulation Area	94575211SL	SS 7	2'	8260	10/10/1994	Soil	0.005	U		0.005
BROMOCHLOROMETHANE	VOC	Drum Accumulation Area	94575212SL	SS 6	2'	8260	10/10/1994	Soil	0.005	U		0.005
BROMOCHLOROMETHANE	VOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8260	10/10/1994	Soil	0.005	U		0.005
BROMOCHLOROMETHANE	VOC	Drum Accumulation Area	94575215SL	SS 4	2'	8260	10/10/1994	Soil	0.005	U		0.005
BROMOCHLOROMETHANE	VOC	Drum Accumulation Area	94575216SL	SS 3	2'	8260	10/10/1994	Soil	0.005	U		0.005
BROMOCHLOROMETHANE	VOC	Drum Accumulation Area	94575217SL	SS 2	2'	8260	10/10/1994	Soil	0.005	U		0.005
BROMOCHLOROMETHANE	VOC	Drum Accumulation Area	94575218SL	SS 1	2'	8260	10/10/1994	Soil	0.005	U		0.005
BROMOCHLOROMETHANE	VOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8260	11/03/1994	Soil	0.005	U		0.005
BROMOCHLOROMETHANE	VOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8260	11/03/1994	Soil	0.005	U		0.005
BROMOCHLOROMETHANE	VOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8260	11/07/1994	Soil	0.005	U		0.005
BROMOCHLOROMETHANE	VOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8260	11/09/1994	Soil	0.005	U		0.005
BROMOCHLOROMETHANE	VOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8260	11/11/1994	Soil	0.005	U		0.005
BROMOCHLOROMETHANE	VOC	965752BH01	96575225SL	AP-3785	5	8260	10/02/1996	Soil	0.002	U	0.002	0.002
BROMOCHLOROMETHANE	VOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
BROMOCHLOROMETHANE	VOC	965752BH04	96575238SL	AP-3788	2.5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
BROMOCHLOROMETHANE	VOC	965752BH04	96575239SL-AVG	AP-3788	5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
BROMOCHLOROMETHANE	VOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8260	10/06/1994	Soil	0.005	U		0.005
BROMOCHLOROMETHANE	VOC	Drum Accumulation Area	94575203SL	SS 2	6"	8260	10/06/1994	Soil	0.005	U		0.005
BROMOCHLOROMETHANE	VOC	Drum Accumulation Area	94575204SL	SS 3	6"	8260	10/06/1994	Soil	0.005	U		0.005
BROMOCHLOROMETHANE	VOC	Drum Accumulation Area	94575205SL	SS 4	6"	8260	10/06/1994	Soil	0.005	U		0.005
BROMOCHLOROMETHANE	VOC	Drum Accumulation Area	94575206SL	SS 5	6"	8260	10/06/1994	Soil	0.005	U		0.005
BROMOCHLOROMETHANE	VOC	Drum Accumulation Area	94575207SL	SS 6	6"	8260	10/06/1994	Soil	0.005	U		0.005
BROMOCHLOROMETHANE	VOC	Drum Accumulation Area	94575208SL	SS 7	6"	8260	10/06/1994	Soil	0.005	U		0.005
BROMOCHLOROMETHANE	VOC	Drum Accumulation Area	94575209SL	SS 8	6"	8260	10/06/1994	Soil	0.005	U		0.005
BROMOCHLOROMETHANE	VOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8260	11/03/1994	Soil	0.005	U		0.005
BROMOCHLOROMETHANE	VOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8260	11/03/1994	Soil	0.005	U		0.005
BROMOCHLOROMETHANE	VOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8260	11/07/1994	Soil	0.005	U		0.005
BROMOCHLOROMETHANE	VOC	Cooling Pond	94575231SL	AP-3503	0-6'	8260	11/08/1994	Soil	0.005	U		0.005
BROMOCHLOROMETHANE	VOC	Cooling Pond	94575235SL	AP-3504	0-2'	8260	11/09/1994	Soil	0.005	U		0.005
BROMOCHLOROMETHANE	VOC	965752BH03	96575230SL	AP-3787	0	8260	10/03/1996	Soil	0.002	U	0.002	0.005
BROMOCHLOROMETHANE	VOC	965752BH04	96575236SL-AVG	AP-3788	0	8260	10/03/1996	Soil	0.002	U	0.002	0.005
BROMODICHLOROMETHANE	VOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
BROMODICHLOROMETHANE	VOC	Cooling Pond	94575242SD	SD-B	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
BROMODICHLOROMETHANE	VOC	Cooling Pond	94575243SD	SD-C	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
BROMODICHLOROMETHANE	VOC	Cooling Pond	94575244SD	SD-D	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
BROMODICHLOROMETHANE	VOC	Cooling Pond	94575245SD	SD-E	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
BROMODICHLOROMETHANE	VOC	Cooling Pond	94575246SD	SD-F	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
BROMODICHLOROMETHANE	VOC	Cooling Pond	94575247SD	SD-G	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
BROMODICHLOROMETHANE	VOC	Cooling Pond	94575248SD	SD-H	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
BROMODICHLOROMETHANE	VOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
BROMODICHLOROMETHANE	VOC	119 ft from DP	96575205SD	96-SD5	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
BROMODICHLOROMETHANE	VOC	147 ft from DP	96575206SD	96-SD6	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
BROMODICHLOROMETHANE	VOC	165 ft from DP	96575208SD	96-SD8	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
BROMODICHLOROMETHANE	VOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
BROMODICHLOROMETHANE	VOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8260	09/25/1996	Sediment	0.006	U	0.006	0.015
BROMODICHLOROMETHANE	VOC	40 ft from DP	96575202SD	96-SD2	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
BROMODICHLOROMETHANE	VOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
BROMODICHLOROMETHANE	VOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
BROMODICHLOROMETHANE	VOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8260	09/26/1996	Sediment	0.004	U	0.004	0.01
BROMODICHLOROMETHANE	VOC	Drum Accumulation Area	94575210SL	SS 8	2'	8260	10/06/1994	Soil	0.005	U		0.005
BROMODICHLOROMETHANE	VOC	Drum Accumulation Area	94575211SL	SS 7	2'	8260	10/10/1994	Soil	0.005	U		0.005
BROMODICHLOROMETHANE	VOC	Drum Accumulation Area	94575212SL	SS 6	2'	8260	10/10/1994	Soil	0.005	U		0.005
BROMODICHLOROMETHANE	VOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8260	10/10/1994	Soil	0.005	U		0.005

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
BROMODICHLOROMETHANE	VOC	Drum Accumulation Area	94575215SL	SS 4	2'	8260	10/10/1994	Soil	0.005	U		0.005
BROMODICHLOROMETHANE	VOC	Drum Accumulation Area	94575216SL	SS 3	2'	8260	10/10/1994	Soil	0.005	U		0.005
BROMODICHLOROMETHANE	VOC	Drum Accumulation Area	94575217SL	SS 2	2'	8260	10/10/1994	Soil	0.005	U		0.005
BROMODICHLOROMETHANE	VOC	Drum Accumulation Area	94575218SL	SS 1	2'	8260	10/10/1994	Soil	0.005	U		0.005
BROMODICHLOROMETHANE	VOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8260	11/03/1994	Soil	0.005	U		0.005
BROMODICHLOROMETHANE	VOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8260	11/03/1994	Soil	0.005	U		0.005
BROMODICHLOROMETHANE	VOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8260	11/07/1994	Soil	0.005	U		0.005
BROMODICHLOROMETHANE	VOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8260	11/09/1994	Soil	0.005	U		0.005
BROMODICHLOROMETHANE	VOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8260	11/11/1994	Soil	0.005	U		0.005
BROMODICHLOROMETHANE	VOC	965752BH01	96575225SL	AP-3785	5	8260	10/02/1996	Soil	0.002	U	0.002	0.002
BROMODICHLOROMETHANE	VOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
BROMODICHLOROMETHANE	VOC	965752BH04	96575238SL	AP-3788	2.5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
BROMODICHLOROMETHANE	VOC	965752BH04	96575239SL-AVG	AP-3788	5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
BROMODICHLOROMETHANE	VOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8260	10/06/1994	Soil	0.005	U		0.005
BROMODICHLOROMETHANE	VOC	Drum Accumulation Area	94575203SL	SS 2	6"	8260	10/06/1994	Soil	0.005	U		0.005
BROMODICHLOROMETHANE	VOC	Drum Accumulation Area	94575204SL	SS 3	6"	8260	10/06/1994	Soil	0.005	U		0.005
BROMODICHLOROMETHANE	VOC	Drum Accumulation Area	94575205SL	SS 4	6"	8260	10/06/1994	Soil	0.005	U		0.005
BROMODICHLOROMETHANE	VOC	Drum Accumulation Area	94575206SL	SS 5	6"	8260	10/06/1994	Soil	0.005	U		0.005
BROMODICHLOROMETHANE	VOC	Drum Accumulation Area	94575207SL	SS 6	6"	8260	10/06/1994	Soil	0.005	U		0.005
BROMODICHLOROMETHANE	VOC	Drum Accumulation Area	94575208SL	SS 7	6"	8260	10/06/1994	Soil	0.005	U		0.005
BROMODICHLOROMETHANE	VOC	Drum Accumulation Area	94575209SL	SS 8	6"	8260	10/06/1994	Soil	0.005	U		0.005
BROMODICHLOROMETHANE	VOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8260	11/03/1994	Soil	0.005	U		0.005
BROMODICHLOROMETHANE	VOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8260	11/03/1994	Soil	0.005	U		0.005
BROMODICHLOROMETHANE	VOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8260	11/07/1994	Soil	0.005	U		0.005
BROMODICHLOROMETHANE	VOC	Cooling Pond	94575231SL	AP-3503	0-6'	8260	11/08/1994	Soil	0.005	U		0.005
BROMODICHLOROMETHANE	VOC	Cooling Pond	94575235SL	AP-3504	0-2'	8260	11/09/1994	Soil	0.005	U		0.005
BROMODICHLOROMETHANE	VOC	965752BH03	96575230SL	AP-3787	0	8260	10/03/1996	Soil	0.002	U	0.002	0.005
BROMODICHLOROMETHANE	VOC	965752BH04	96575236SL-AVG	AP-3788	0	8260	10/03/1996	Soil	0.002	U	0.002	0.005
BROMOFORM	VOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
BROMOFORM	VOC	Cooling Pond	94575242SD	SD-B	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
BROMOFORM	VOC	Cooling Pond	94575243SD	SD-C	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
BROMOFORM	VOC	Cooling Pond	94575244SD	SD-D	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
BROMOFORM	VOC	Cooling Pond	94575245SD	SD-E	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
BROMOFORM	VOC	Cooling Pond	94575246SD	SD-F	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
BROMOFORM	VOC	Cooling Pond	94575247SD	SD-G	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
BROMOFORM	VOC	Cooling Pond	94575248SD	SD-H	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
BROMOFORM	VOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
BROMOFORM	VOC	119 ft from DP	96575205SD	96-SD5	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
BROMOFORM	VOC	147 ft from DP	96575206SD	96-SD6	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
BROMOFORM	VOC	165 ft from DP	96575208SD	96-SD8	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
BROMOFORM	VOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
BROMOFORM	VOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8260	09/25/1996	Sediment	0.006	U	0.006	0.015
BROMOFORM	VOC	40 ft from DP	96575202SD	96-SD2	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
BROMOFORM	VOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
BROMOFORM	VOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
BROMOFORM	VOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8260	09/26/1996	Sediment	0.004	U	0.004	0.01
BROMOFORM	VOC	Drum Accumulation Area	94575210SL	SS 8	2'	8260	10/06/1994	Soil	0.005	U		0.005
BROMOFORM	VOC	Drum Accumulation Area	94575211SL	SS 7	2'	8260	10/10/1994	Soil	0.005	U		0.005
BROMOFORM	VOC	Drum Accumulation Area	94575212SL	SS 6	2'	8260	10/10/1994	Soil	0.005	U		0.005
BROMOFORM	VOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8260	10/10/1994	Soil	0.005	U		0.005
BROMOFORM	VOC	Drum Accumulation Area	94575215SL	SS 4	2'	8260	10/10/1994	Soil	0.005	U		0.005
BROMOFORM	VOC	Drum Accumulation Area	94575216SL	SS 3	2'	8260	10/10/1994	Soil	0.005	U		0.005
BROMOFORM	VOC	Drum Accumulation Area	94575217SL	SS 2	2'	8260	10/10/1994	Soil	0.005	U		0.005
BROMOFORM	VOC	Drum Accumulation Area	94575218SL	SS 1	2'	8260	10/10/1994	Soil	0.005	U		0.005
BROMOFORM	VOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8260	11/03/1994	Soil	0.005	U		0.005
BROMOFORM	VOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8260	11/03/1994	Soil	0.005	U		0.005
BROMOFORM	VOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8260	11/07/1994	Soil	0.005	U		0.005
BROMOFORM	VOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8260	11/09/1994	Soil	0.005	U		0.005
BROMOFORM	VOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8260	11/11/1994	Soil	0.005	U		0.005
BROMOFORM	VOC	965752BH01	96575225SL	AP-3785	5	8260	10/02/1996	Soil	0.002	U	0.002	0.002
BROMOFORM	VOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
BROMOFORM	VOC	965752BH04	96575238SL	AP-3788	2.5	8260	10/03/1996	Soil	0.002	U	0.002	0.002

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
BROMOFORM	VOC	965752BH04	96575239SL-AVG	AP-3788	5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
BROMOFORM	VOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8260	10/06/1994	Soil	0.005	U		0.005
BROMOFORM	VOC	Drum Accumulation Area	94575203SL	SS 2	6"	8260	10/06/1994	Soil	0.005	U		0.005
BROMOFORM	VOC	Drum Accumulation Area	94575204SL	SS 3	6"	8260	10/06/1994	Soil	0.005	U		0.005
BROMOFORM	VOC	Drum Accumulation Area	94575205SL	SS 4	6"	8260	10/06/1994	Soil	0.005	U		0.005
BROMOFORM	VOC	Drum Accumulation Area	94575206SL	SS 5	6"	8260	10/06/1994	Soil	0.005	U		0.005
BROMOFORM	VOC	Drum Accumulation Area	94575207SL	SS 6	6"	8260	10/06/1994	Soil	0.005	U		0.005
BROMOFORM	VOC	Drum Accumulation Area	94575208SL	SS 7	6"	8260	10/06/1994	Soil	0.005	U		0.005
BROMOFORM	VOC	Drum Accumulation Area	94575209SL	SS 8	6"	8260	10/06/1994	Soil	0.005	U		0.005
BROMOFORM	VOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8260	11/03/1994	Soil	0.005	U		0.005
BROMOFORM	VOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8260	11/03/1994	Soil	0.005	U		0.005
BROMOFORM	VOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8260	11/07/1994	Soil	0.005	U		0.005
BROMOFORM	VOC	Cooling Pond	94575231SL	AP-3503	0-6'	8260	11/08/1994	Soil	0.005	U		0.005
BROMOFORM	VOC	Cooling Pond	94575235SL	AP-3504	0-2'	8260	11/09/1994	Soil	0.005	U		0.005
BROMOFORM	VOC	965752BH03	96575230SL	AP-3787	0	8260	10/03/1996	Soil	0.002	U	0.002	0.005
BROMOFORM	VOC	965752BH04	96575236SL-AVG	AP-3788	0	8260	10/03/1996	Soil	0.002	U	0.002	0.005
BROMOMETHANE	VOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
BROMOMETHANE	VOC	Cooling Pond	94575242SD	SD-B	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
BROMOMETHANE	VOC	Cooling Pond	94575243SD	SD-C	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
BROMOMETHANE	VOC	Cooling Pond	94575244SD	SD-D	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
BROMOMETHANE	VOC	Cooling Pond	94575245SD	SD-E	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
BROMOMETHANE	VOC	Cooling Pond	94575246SD	SD-F	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
BROMOMETHANE	VOC	Cooling Pond	94575247SD	SD-G	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
BROMOMETHANE	VOC	Cooling Pond	94575248SD	SD-H	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
BROMOMETHANE	VOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
BROMOMETHANE	VOC	119 ft from DP	96575205SD	96-SD5	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
BROMOMETHANE	VOC	147 ft from DP	96575206SD	96-SD6	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
BROMOMETHANE	VOC	165 ft from DP	96575208SD	96-SD8	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
BROMOMETHANE	VOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
BROMOMETHANE	VOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8260	09/25/1996	Sediment	0.006	U	0.006	0.015
BROMOMETHANE	VOC	40 ft from DP	96575202SD	96-SD2	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
BROMOMETHANE	VOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
BROMOMETHANE	VOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
BROMOMETHANE	VOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8260	09/26/1996	Sediment	0.004	U	0.004	0.01
BROMOMETHANE	VOC	Drum Accumulation Area	94575210SL	SS 8	2'	8260	10/06/1994	Soil	0.005	U		0.005
BROMOMETHANE	VOC	Drum Accumulation Area	94575211SL	SS 7	2'	8260	10/10/1994	Soil	0.005	U		0.005
BROMOMETHANE	VOC	Drum Accumulation Area	94575212SL	SS 6	2'	8260	10/10/1994	Soil	0.005	U		0.005
BROMOMETHANE	VOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8260	10/10/1994	Soil	0.005	U		0.005
BROMOMETHANE	VOC	Drum Accumulation Area	94575215SL	SS 4	2'	8260	10/10/1994	Soil	0.005	U		0.005
BROMOMETHANE	VOC	Drum Accumulation Area	94575216SL	SS 3	2'	8260	10/10/1994	Soil	0.005	U		0.005
BROMOMETHANE	VOC	Drum Accumulation Area	94575217SL	SS 2	2'	8260	10/10/1994	Soil	0.005	U		0.005
BROMOMETHANE	VOC	Drum Accumulation Area	94575218SL	SS 1	2'	8260	10/10/1994	Soil	0.005	U		0.005
BROMOMETHANE	VOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8260	11/03/1994	Soil	0.005	U		0.005
BROMOMETHANE	VOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8260	11/03/1994	Soil	0.005	U		0.005
BROMOMETHANE	VOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8260	11/07/1994	Soil	0.005	U		0.005
BROMOMETHANE	VOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8260	11/09/1994	Soil	0.005	U		0.005
BROMOMETHANE	VOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8260	11/11/1994	Soil	0.005	U		0.005
BROMOMETHANE	VOC	965752BH01	96575225SL	AP-3785	5	8260	10/02/1996	Soil	0.002	U	0.002	0.002
BROMOMETHANE	VOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
BROMOMETHANE	VOC	965752BH04	96575238SL	AP-3788	2.5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
BROMOMETHANE	VOC	965752BH04	96575239SL-AVG	AP-3788	5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
BROMOMETHANE	VOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8260	10/06/1994	Soil	0.005	U		0.005
BROMOMETHANE	VOC	Drum Accumulation Area	94575203SL	SS 2	6"	8260	10/06/1994	Soil	0.005	U		0.005
BROMOMETHANE	VOC	Drum Accumulation Area	94575204SL	SS 3	6"	8260	10/06/1994	Soil	0.005	U		0.005
BROMOMETHANE	VOC	Drum Accumulation Area	94575205SL	SS 4	6"	8260	10/06/1994	Soil	0.005	U		0.005
BROMOMETHANE	VOC	Drum Accumulation Area	94575206SL	SS 5	6"	8260	10/06/1994	Soil	0.005	U		0.005
BROMOMETHANE	VOC	Drum Accumulation Area	94575207SL	SS 6	6"	8260	10/06/1994	Soil	0.005	U		0.005
BROMOMETHANE	VOC	Drum Accumulation Area	94575208SL	SS 7	6"	8260	10/06/1994	Soil	0.005	U		0.005
BROMOMETHANE	VOC	Drum Accumulation Area	94575209SL	SS 8	6"	8260	10/06/1994	Soil	0.005	U		0.005
BROMOMETHANE	VOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8260	11/03/1994	Soil	0.005	U		0.005
BROMOMETHANE	VOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8260	11/03/1994	Soil	0.005	U		0.005
BROMOMETHANE	VOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8260	11/07/1994	Soil	0.005	U		0.005

TABLE A-1
Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
BROMOMETHANE	VOC	Cooling Pond	94575231SL	AP-3503	0-6'	8260	11/08/1994	Soil	0.005	U		0.005
BROMOMETHANE	VOC	Cooling Pond	94575235SL	AP-3504	0-2'	8260	11/09/1994	Soil	0.005	U		0.005
BROMOMETHANE	VOC	965752BH03	96575230SL	AP-3787	0	8260	10/03/1996	Soil	0.002	U	0.002	0.005
BROMOMETHANE	VOC	965752BH04	96575236SL-AVG	AP-3788	0	8260	10/03/1996	Soil	0.002	U	0.002	0.005
BUNKER FUEL #6D	TPH	Tank 1109; BH-12	90FRUST86 soil	AP-2982	5-6.5'	8015m	08/21/1990	Soil	10	U		10
BUNKER FUEL #6D	TPH	Tank 1109; BH-13	90FRUST90 soil	AP-2983	5-5.5'	8015m	08/21/1990	Soil	92	U		92
CADMIUM	METAL	Cooling Pond	94575240SD-AVG	SD-A	0-6"	METALS	12/08/1994	Sediment	1	U		1
CADMIUM	METAL	Cooling Pond	94575242SD	SD-B	0-6"	METALS	12/08/1994	Sediment	1	U		1
CADMIUM	METAL	Cooling Pond	94575243SD	SD-C	0-6"	METALS	12/08/1994	Sediment	1	U		1
CADMIUM	METAL	Cooling Pond	94575244SD	SD-D	0-6"	METALS	12/08/1994	Sediment	1	U		1
CADMIUM	METAL	Cooling Pond	94575245SD	SD-E	0-6"	METALS	12/08/1994	Sediment	1	U		1
CADMIUM	METAL	Cooling Pond	94575246SD	SD-F	0-6"	METALS	12/08/1994	Sediment	1	U		1
CADMIUM	METAL	Cooling Pond	94575247SD	SD-G	0-6"	METALS	12/08/1994	Sediment	1	U		1
CADMIUM	METAL	Cooling Pond	94575248SD	SD-H	0-6"	METALS	12/08/1994	Sediment	1	U		1
CADMIUM	METAL	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	METALS	09/25/1996	Sediment	1	=	0.5	1
CADMIUM	METAL	119 ft from DP	96575205SD	96-SD5	----	METALS	09/25/1996	Sediment	0.5	U	0.5	1
CADMIUM	METAL	147 ft from DP	96575206SD	96-SD6	----	METALS	09/25/1996	Sediment	0.5	U	0.5	1
CADMIUM	METAL	165 ft from DP	96575208SD	96-SD8	----	METALS	09/25/1996	Sediment	0.5	U	0.5	1
CADMIUM	METAL	171 ft from DP (east side)	96575209SD	96-SD9	----	METALS	09/25/1996	Sediment	0.5	U	0.5	1
CADMIUM	METAL	171 ft from DP (west side)	96575207SD	96-SD7	----	METALS	09/25/1996	Sediment	0.5	J	0.5	1
CADMIUM	METAL	40 ft from DP	96575202SD	96-SD2	----	METALS	09/25/1996	Sediment	0.5	U	0.5	1
CADMIUM	METAL	79 ft from DP	96575203SD-AVG	96-SD3	----	METALS	09/25/1996	Sediment	0.5	U	0.5	1
CADMIUM	METAL	Discharge pipe (DP)	96575201SD	96-SD1	----	METALS	09/25/1996	Sediment	0.5	U	0.5	1
CADMIUM	METAL	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	METALS	09/26/1996	Sediment	2	=	0.5	1
CADMIUM	METAL	Drum Accumulation Area	94575210SL	SS 8	2'	METALS	10/06/1994	Soil	1	U		1
CADMIUM	METAL	Drum Accumulation Area	94575211SL	SS 7	2'	METALS	10/10/1994	Soil	1	U		1
CADMIUM	METAL	Drum Accumulation Area	94575212SL	SS 6	2'	METALS	10/10/1994	Soil	1	U		1
CADMIUM	METAL	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	METALS	10/10/1994	Soil	1	U		1
CADMIUM	METAL	Drum Accumulation Area	94575215SL	SS 4	2'	METALS	10/10/1994	Soil	1	U		1
CADMIUM	METAL	Drum Accumulation Area	94575216SL	SS 3	2'	METALS	10/10/1994	Soil	1	U		1
CADMIUM	METAL	Drum Accumulation Area	94575217SL	SS 2	2'	METALS	10/10/1994	Soil	1	U		1
CADMIUM	METAL	Drum Accumulation Area	94575218SL	SS 1	2'	METALS	10/10/1994	Soil	1	U		1
CADMIUM	METAL	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	METALS	11/03/1994	Soil	1	U		1
CADMIUM	METAL	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	METALS	11/03/1994	Soil	1	U		1
CADMIUM	METAL	Cooling Pond	94575229SL	AP-3502	4'-6'	METALS	11/07/1994	Soil	1	U		1
CADMIUM	METAL	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	METALS	11/09/1994	Soil	1	U		1
CADMIUM	METAL	Cooling Pond	94575240SL	AP-3501	5'-7'	METALS	11/11/1994	Soil	1	U		1
CADMIUM	METAL	965752BH03	96575231SL-AVG	AP-3787	2.5	METALS	10/03/1996	Soil	0.5	U	0.5	0.5
CADMIUM	METAL	965752BH03	96575233SL	AP-3787	5	METALS	10/03/1996	Soil	0.5	U	0.5	0.5
CADMIUM	METAL	965752BH04	96575238SL	AP-3788	2.5	METALS	10/03/1996	Soil	0.5	U	0.5	0.5
CADMIUM	METAL	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	METALS	10/06/1994	Soil	1	U		1
CADMIUM	METAL	Drum Accumulation Area	94575203SL	SS 2	6"	METALS	10/06/1994	Soil	1	U		1
CADMIUM	METAL	Drum Accumulation Area	94575204SL	SS 3	6"	METALS	10/06/1994	Soil	1	U		1
CADMIUM	METAL	Drum Accumulation Area	94575205SL	SS 4	6"	METALS	10/06/1994	Soil	1	U		1
CADMIUM	METAL	Drum Accumulation Area	94575206SL	SS 5	6"	METALS	10/06/1994	Soil	1	U		1
CADMIUM	METAL	Drum Accumulation Area	94575207SL	SS 6	6"	METALS	10/06/1994	Soil	1	U		1
CADMIUM	METAL	Drum Accumulation Area	94575208SL	SS 7	6"	METALS	10/06/1994	Soil	1	U		1
CADMIUM	METAL	Drum Accumulation Area	94575209SL	SS 8	6"	METALS	10/06/1994	Soil	1	U		1
CADMIUM	METAL	Drum Accumulation Area	94575219SL	AP-3505	0-4'	METALS	11/03/1994	Soil	1	U		1
CADMIUM	METAL	Drum Accumulation Area	94575223SL	AP-3506	0-2'	METALS	11/03/1994	Soil	1	U		1
CADMIUM	METAL	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	METALS	11/07/1994	Soil	1	U		1
CADMIUM	METAL	Cooling Pond	94575231SL	AP-3503	0-6'	METALS	11/08/1994	Soil	1	U		1
CADMIUM	METAL	Cooling Pond	94575235SL	AP-3504	0-2'	METALS	11/09/1994	Soil	1	U		1
CADMIUM	METAL	965752BH03	96575230SL	AP-3787	0	METALS	10/03/1996	Soil	0.5	U	0.5	1
CADMIUM	METAL	965752BH04	96575236SL-AVG	AP-3788	0	METALS	10/03/1996	Soil	0.5	U	0.5	1
CALCIUM	METAL	Drum Accumulation Area	94575210SL	SS 8	2'	METALS	10/06/1994	Soil	5620	=		10
CALCIUM	METAL	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	METALS	10/06/1994	Soil	4840	=		10
CALCIUM	METAL	Drum Accumulation Area	94575203SL	SS 2	6"	METALS	10/06/1994	Soil	3940	=		10
CALCIUM	METAL	Drum Accumulation Area	94575204SL	SS 3	6"	METALS	10/06/1994	Soil	5670	=		10
CALCIUM	METAL	Drum Accumulation Area	94575205SL	SS 4	6"	METALS	10/06/1994	Soil	3150	=		10
CALCIUM	METAL	Drum Accumulation Area	94575206SL	SS 5	6"	METALS	10/06/1994	Soil	7220	=		10
CALCIUM	METAL	Drum Accumulation Area	94575207SL	SS 6	6"	METALS	10/06/1994	Soil	3310	=		10

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
CALCIUM	METAL	Drum Accumulation Area	94575208SL	SS 7	6"	METALS	10/06/1994	Soil	4110	=		10
CALCIUM	METAL	Drum Accumulation Area	94575209SL	SS 8	6"	METALS	10/06/1994	Soil	4240	=		10
CARBON DISULFIDE	VOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
CARBON DISULFIDE	VOC	Cooling Pond	94575242SD	SD-B	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
CARBON DISULFIDE	VOC	Cooling Pond	94575243SD	SD-C	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
CARBON DISULFIDE	VOC	Cooling Pond	94575244SD	SD-D	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
CARBON DISULFIDE	VOC	Cooling Pond	94575245SD	SD-E	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
CARBON DISULFIDE	VOC	Cooling Pond	94575246SD	SD-F	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
CARBON DISULFIDE	VOC	Cooling Pond	94575247SD	SD-G	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
CARBON DISULFIDE	VOC	Cooling Pond	94575248SD	SD-H	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
CARBON DISULFIDE	VOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
CARBON DISULFIDE	VOC	119 ft from DP	96575205SD	96-SD5	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
CARBON DISULFIDE	VOC	147 ft from DP	96575206SD	96-SD6	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
CARBON DISULFIDE	VOC	165 ft from DP	96575208SD	96-SD8	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
CARBON DISULFIDE	VOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
CARBON DISULFIDE	VOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8260	09/25/1996	Sediment	0.006	U	0.006	0.015
CARBON DISULFIDE	VOC	40 ft from DP	96575202SD	96-SD2	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
CARBON DISULFIDE	VOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
CARBON DISULFIDE	VOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
CARBON DISULFIDE	VOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8260	09/26/1996	Sediment	0.004	U	0.004	0.01
CARBON DISULFIDE	VOC	Drum Accumulation Area	94575210SL	SS 8	2'	8260	10/06/1994	Soil	0.005	U		0.005
CARBON DISULFIDE	VOC	Drum Accumulation Area	94575211SL	SS 7	2'	8260	10/10/1994	Soil	0.005	U		0.005
CARBON DISULFIDE	VOC	Drum Accumulation Area	94575212SL	SS 6	2'	8260	10/10/1994	Soil	0.005	U		0.005
CARBON DISULFIDE	VOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8260	10/10/1994	Soil	0.005	U		0.005
CARBON DISULFIDE	VOC	Drum Accumulation Area	94575215SL	SS 4	2'	8260	10/10/1994	Soil	0.005	U		0.005
CARBON DISULFIDE	VOC	Drum Accumulation Area	94575216SL	SS 3	2'	8260	10/10/1994	Soil	0.005	U		0.005
CARBON DISULFIDE	VOC	Drum Accumulation Area	94575217SL	SS 2	2'	8260	10/10/1994	Soil	0.005	U		0.005
CARBON DISULFIDE	VOC	Drum Accumulation Area	94575218SL	SS 1	2'	8260	10/10/1994	Soil	0.005	U		0.005
CARBON DISULFIDE	VOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8260	11/03/1994	Soil	0.005	U		0.005
CARBON DISULFIDE	VOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8260	11/03/1994	Soil	0.005	U		0.005
CARBON DISULFIDE	VOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8260	11/07/1994	Soil	0.005	U		0.005
CARBON DISULFIDE	VOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8260	11/09/1994	Soil	0.005	U		0.005
CARBON DISULFIDE	VOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8260	11/11/1994	Soil	0.005	U		0.005
CARBON DISULFIDE	VOC	965752BH01	96575225SL	AP-3785	5	8260	10/02/1996	Soil	0.002	U	0.002	0.002
CARBON DISULFIDE	VOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
CARBON DISULFIDE	VOC	965752BH04	96575238SL	AP-3788	2.5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
CARBON DISULFIDE	VOC	965752BH04	96575239SL-AVG	AP-3788	5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
CARBON DISULFIDE	VOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8260	10/06/1994	Soil	0.005	U		0.005
CARBON DISULFIDE	VOC	Drum Accumulation Area	94575203SL	SS 2	6"	8260	10/06/1994	Soil	0.005	U		0.005
CARBON DISULFIDE	VOC	Drum Accumulation Area	94575204SL	SS 3	6"	8260	10/06/1994	Soil	0.005	U		0.005
CARBON DISULFIDE	VOC	Drum Accumulation Area	94575205SL	SS 4	6"	8260	10/06/1994	Soil	0.005	U		0.005
CARBON DISULFIDE	VOC	Drum Accumulation Area	94575206SL	SS 5	6"	8260	10/06/1994	Soil	0.005	U		0.005
CARBON DISULFIDE	VOC	Drum Accumulation Area	94575207SL	SS 6	6"	8260	10/06/1994	Soil	0.005	U		0.005
CARBON DISULFIDE	VOC	Drum Accumulation Area	94575208SL	SS 7	6"	8260	10/06/1994	Soil	0.005	U		0.005
CARBON DISULFIDE	VOC	Drum Accumulation Area	94575209SL	SS 8	6"	8260	10/06/1994	Soil	0.005	U		0.005
CARBON DISULFIDE	VOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8260	11/03/1994	Soil	0.005	U		0.005
CARBON DISULFIDE	VOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8260	11/03/1994	Soil	0.005	U		0.005
CARBON DISULFIDE	VOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8260	11/07/1994	Soil	0.005	U		0.005
CARBON DISULFIDE	VOC	Cooling Pond	94575231SL	AP-3503	0-6'	8260	11/08/1994	Soil	0.005	U		0.005
CARBON DISULFIDE	VOC	Cooling Pond	94575235SL	AP-3504	0-2'	8260	11/09/1994	Soil	0.005	U		0.005
CARBON DISULFIDE	VOC	965752BH03	96575230SL	AP-3787	0	8260	10/03/1996	Soil	0.002	U	0.002	0.005
CARBON DISULFIDE	VOC	965752BH04	96575236SL-AVG	AP-3788	0	8260	10/03/1996	Soil	0.002	U	0.002	0.005
CARBON TETRACHLORIDE	VOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
CARBON TETRACHLORIDE	VOC	Cooling Pond	94575242SD	SD-B	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
CARBON TETRACHLORIDE	VOC	Cooling Pond	94575243SD	SD-C	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
CARBON TETRACHLORIDE	VOC	Cooling Pond	94575244SD	SD-D	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
CARBON TETRACHLORIDE	VOC	Cooling Pond	94575245SD	SD-E	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
CARBON TETRACHLORIDE	VOC	Cooling Pond	94575246SD	SD-F	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
CARBON TETRACHLORIDE	VOC	Cooling Pond	94575247SD	SD-G	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
CARBON TETRACHLORIDE	VOC	Cooling Pond	94575248SD	SD-H	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
CARBON TETRACHLORIDE	VOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.01
CARBON TETRACHLORIDE	VOC	119 ft from DP	96575205SD	96-SD5	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.01

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
CARBON TETRACHLORIDE	VOC	147 ft from DP	96575206SD	96-SD6	----	8260	09/25/1996	Sediment	0.001	U	0.001	0.005
CARBON TETRACHLORIDE	VOC	165 ft from DP	96575208SD	96-SD8	----	8260	09/25/1996	Sediment	0.001	U	0.001	0.005
CARBON TETRACHLORIDE	VOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8260	09/25/1996	Sediment	0.001	U	0.001	0.005
CARBON TETRACHLORIDE	VOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8260	09/25/1996	Sediment	0.003	U	0.003	0.015
CARBON TETRACHLORIDE	VOC	40 ft from DP	96575202SD	96-SD2	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.01
CARBON TETRACHLORIDE	VOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.01
CARBON TETRACHLORIDE	VOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8260	09/25/1996	Sediment	0.001	U	0.001	0.005
CARBON TETRACHLORIDE	VOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8260	09/26/1996	Sediment	0.002	U	0.002	0.01
CARBON TETRACHLORIDE	VOC	Drum Accumulation Area	94575210SL	SS 8	2'	8260	10/06/1994	Soil	0.005	U		0.005
CARBON TETRACHLORIDE	VOC	Drum Accumulation Area	94575211SL	SS 7	2'	8260	10/10/1994	Soil	0.005	U		0.005
CARBON TETRACHLORIDE	VOC	Drum Accumulation Area	94575212SL	SS 6	2'	8260	10/10/1994	Soil	0.005	U		0.005
CARBON TETRACHLORIDE	VOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8260	10/10/1994	Soil	0.005	U		0.005
CARBON TETRACHLORIDE	VOC	Drum Accumulation Area	94575215SL	SS 4	2'	8260	10/10/1994	Soil	0.005	U		0.005
CARBON TETRACHLORIDE	VOC	Drum Accumulation Area	94575216SL	SS 3	2'	8260	10/10/1994	Soil	0.005	U		0.005
CARBON TETRACHLORIDE	VOC	Drum Accumulation Area	94575217SL	SS 2	2'	8260	10/10/1994	Soil	0.005	U		0.005
CARBON TETRACHLORIDE	VOC	Drum Accumulation Area	94575218SL	SS 1	2'	8260	10/10/1994	Soil	0.005	U		0.005
CARBON TETRACHLORIDE	VOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8260	11/03/1994	Soil	0.005	U		0.005
CARBON TETRACHLORIDE	VOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8260	11/03/1994	Soil	0.005	U		0.005
CARBON TETRACHLORIDE	VOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8260	11/07/1994	Soil	0.005	U		0.005
CARBON TETRACHLORIDE	VOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8260	11/09/1994	Soil	0.005	U		0.005
CARBON TETRACHLORIDE	VOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8260	11/11/1994	Soil	0.005	U		0.005
CARBON TETRACHLORIDE	VOC	965752BH01	96575225SL	AP-3785	5	8260	10/02/1996	Soil	0.001	U	0.001	0.001
CARBON TETRACHLORIDE	VOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8260	10/03/1996	Soil	0.001	U	0.001	0.001
CARBON TETRACHLORIDE	VOC	965752BH04	96575238SL	AP-3788	2.5	8260	10/03/1996	Soil	0.001	U	0.001	0.001
CARBON TETRACHLORIDE	VOC	965752BH04	96575239SL-AVG	AP-3788	5	8260	10/03/1996	Soil	0.001	U	0.001	0.001
CARBON TETRACHLORIDE	VOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8260	10/06/1994	Soil	0.005	U		0.005
CARBON TETRACHLORIDE	VOC	Drum Accumulation Area	94575203SL	SS 2	6"	8260	10/06/1994	Soil	0.005	U		0.005
CARBON TETRACHLORIDE	VOC	Drum Accumulation Area	94575204SL	SS 3	6"	8260	10/06/1994	Soil	0.005	U		0.005
CARBON TETRACHLORIDE	VOC	Drum Accumulation Area	94575205SL	SS 4	6"	8260	10/06/1994	Soil	0.005	U		0.005
CARBON TETRACHLORIDE	VOC	Drum Accumulation Area	94575206SL	SS 5	6"	8260	10/06/1994	Soil	0.005	U		0.005
CARBON TETRACHLORIDE	VOC	Drum Accumulation Area	94575207SL	SS 6	6"	8260	10/06/1994	Soil	0.005	U		0.005
CARBON TETRACHLORIDE	VOC	Drum Accumulation Area	94575208SL	SS 7	6"	8260	10/06/1994	Soil	0.005	U		0.005
CARBON TETRACHLORIDE	VOC	Drum Accumulation Area	94575209SL	SS 8	6"	8260	10/06/1994	Soil	0.005	U		0.005
CARBON TETRACHLORIDE	VOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8260	11/03/1994	Soil	0.005	U		0.005
CARBON TETRACHLORIDE	VOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8260	11/03/1994	Soil	0.005	U		0.005
CARBON TETRACHLORIDE	VOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8260	11/07/1994	Soil	0.005	U		0.005
CARBON TETRACHLORIDE	VOC	Cooling Pond	94575231SL	AP-3503	0-6'	8260	11/08/1994	Soil	0.005	U		0.005
CARBON TETRACHLORIDE	VOC	Cooling Pond	94575235SL	AP-3504	0-2'	8260	11/09/1994	Soil	0.005	U		0.005
CARBON TETRACHLORIDE	VOC	965752BH03	96575230SL	AP-3787	0	8260	10/03/1996	Soil	0.001	U	0.001	0.005
CARBON TETRACHLORIDE	VOC	965752BH04	96575236SL-AVG	AP-3788	0	8260	10/03/1996	Soil	0.001	U	0.001	0.005
CHLORDANE	PEST/PCB	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8080	12/08/1994	Sediment	0.1	U		0.1
CHLORDANE	PEST/PCB	Cooling Pond	94575242SD	SD-B	0-6"	8080	12/08/1994	Sediment	0.1	U		0.1
CHLORDANE	PEST/PCB	Cooling Pond	94575243SD	SD-C	0-6"	8080	12/08/1994	Sediment	0.1	U		0.1
CHLORDANE	PEST/PCB	Cooling Pond	94575244SD	SD-D	0-6"	8080	12/08/1994	Sediment	0.1	U		0.1
CHLORDANE	PEST/PCB	Cooling Pond	94575245SD	SD-E	0-6"	8080	12/08/1994	Sediment	0.1	U		0.1
CHLORDANE	PEST/PCB	Cooling Pond	94575246SD	SD-F	0-6"	8080	12/08/1994	Sediment	0.8	U		0.8
CHLORDANE	PEST/PCB	Cooling Pond	94575247SD	SD-G	0-6"	8080	12/08/1994	Sediment	0.6	U		0.6
CHLORDANE	PEST/PCB	Cooling Pond	94575248SD	SD-H	0-6"	8080	12/08/1994	Sediment	0.4	U		0.4
CHLORDANE	PEST/PCB	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8080	09/25/1996	Sediment	0.04	U	0.04	0.2
CHLORDANE	PEST/PCB	119 ft from DP	96575205SD	96-SD5	----	8080	09/25/1996	Sediment	0.04	U	0.04	0.2
CHLORDANE	PEST/PCB	147 ft from DP	96575206SD	96-SD6	----	8080	09/25/1996	Sediment	0.02	U	0.02	0.1
CHLORDANE	PEST/PCB	165 ft from DP	96575208SD	96-SD8	----	8080	09/25/1996	Sediment	0.02	U	0.02	0.1
CHLORDANE	PEST/PCB	171 ft from DP (east side)	96575209SD	96-SD9	----	8080	09/25/1996	Sediment	0.02	U	0.02	0.1
CHLORDANE	PEST/PCB	171 ft from DP (west side)	96575207SD	96-SD7	----	8080	09/25/1996	Sediment	0.04	U	0.04	0.2
CHLORDANE	PEST/PCB	40 ft from DP	96575202SD	96-SD2	----	8080	09/25/1996	Sediment	0.04	U	0.04	0.2
CHLORDANE	PEST/PCB	79 ft from DP	96575203SD-AVG	96-SD3	----	8080	09/25/1996	Sediment	0.04	U	0.04	0.2
CHLORDANE	PEST/PCB	Discharge pipe (DP)	96575201SD	96-SD1	----	8080	09/25/1996	Sediment	0.02	U	0.02	0.1
CHLORDANE	PEST/PCB	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8080	09/26/1996	Sediment	0.04	U	0.04	0.2
CHLORDANE	PEST/PCB	Drum Accumulation Area	94575210SL	SS 8	2'	8080	10/06/1994	Soil	0.1	U		0.1
CHLORDANE	PEST/PCB	Drum Accumulation Area	94575211SL	SS 7	2'	8080	10/10/1994	Soil	0.1	U		0.1
CHLORDANE	PEST/PCB	Drum Accumulation Area	94575212SL	SS 6	2'	8080	10/10/1994	Soil	0.1	U		0.1
CHLORDANE	PEST/PCB	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8080	10/10/1994	Soil	0.1	U		0.1

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
CHLORDANE	PEST/PCB	Drum Accumulation Area	94575215SL	SS 4	2'	8080	10/10/1994	Soil	0.1	U		0.1
CHLORDANE	PEST/PCB	Drum Accumulation Area	94575216SL	SS 3	2'	8080	10/10/1994	Soil	0.1	U		0.1
CHLORDANE	PEST/PCB	Drum Accumulation Area	94575217SL	SS 2	2'	8080	10/10/1994	Soil	0.1	U		0.1
CHLORDANE	PEST/PCB	Drum Accumulation Area	94575218SL	SS 1	2'	8080	10/10/1994	Soil	0.1	U		0.1
CHLORDANE	PEST/PCB	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8080	11/03/1994	Soil	0.1	U		0.1
CHLORDANE	PEST/PCB	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8080	11/03/1994	Soil	0.1	U		0.1
CHLORDANE	PEST/PCB	Cooling Pond	94575229SL	AP-3502	4'-6'	8080	11/07/1994	Soil	0.1	U		0.1
CHLORDANE	PEST/PCB	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8080	11/09/1994	Soil	0.1	U		0.1
CHLORDANE	PEST/PCB	Cooling Pond	94575240SL	AP-3501	5'-7'	8080	11/11/1994	Soil	0.1	U		0.1
CHLORDANE	PEST/PCB	965752BH01	96575225SL	AP-3785	5	8080	10/02/1996	Soil	0.02	U	0.02	0.02
CHLORDANE	PEST/PCB	965752BH03	96575231SL-AVG	AP-3787	2.5	8080	10/03/1996	Soil	0.02	U	0.02	0.02
CHLORDANE	PEST/PCB	965752BH03	96575233SL	AP-3787	5	8080	10/03/1996	Soil	0.02	U	0.02	0.02
CHLORDANE	PEST/PCB	965752BH04	96575238SL	AP-3788	2.5	8080	10/03/1996	Soil	0.02	U	0.02	0.02
CHLORDANE	PEST/PCB	965752BH04	96575239SL-AVG	AP-3788	5	8080	10/03/1996	Soil	0.02	U	0.02	0.02
CHLORDANE	PEST/PCB	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8080	10/06/1994	Soil	0.1	U		0.1
CHLORDANE	PEST/PCB	Drum Accumulation Area	94575203SL	SS 2	6"	8080	10/06/1994	Soil	0.1	U		0.1
CHLORDANE	PEST/PCB	Drum Accumulation Area	94575204SL	SS 3	6"	8080	10/06/1994	Soil	0.1	U		0.1
CHLORDANE	PEST/PCB	Drum Accumulation Area	94575205SL	SS 4	6"	8080	10/06/1994	Soil	0.1	U		0.1
CHLORDANE	PEST/PCB	Drum Accumulation Area	94575206SL	SS 5	6"	8080	10/06/1994	Soil	0.1	U		0.1
CHLORDANE	PEST/PCB	Drum Accumulation Area	94575207SL	SS 6	6"	8080	10/06/1994	Soil	0.1	U		0.1
CHLORDANE	PEST/PCB	Drum Accumulation Area	94575208SL	SS 7	6"	8080	10/06/1994	Soil	0.1	U		0.1
CHLORDANE	PEST/PCB	Drum Accumulation Area	94575209SL	SS 8	6"	8080	10/06/1994	Soil	0.1	U		0.1
CHLORDANE	PEST/PCB	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8080	11/03/1994	Soil	0.1	U		0.1
CHLORDANE	PEST/PCB	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8080	11/03/1994	Soil	0.1	U		0.1
CHLORDANE	PEST/PCB	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8080	11/07/1994	Soil	0.1	U		0.1
CHLORDANE	PEST/PCB	Cooling Pond	94575231SL	AP-3503	0-6'	8080	11/08/1994	Soil	0.1	U		0.1
CHLORDANE	PEST/PCB	Cooling Pond	94575235SL	AP-3504	0-2'	8080	11/09/1994	Soil	0.1	U		0.1
CHLORDANE	PEST/PCB	965752BH03	96575230SL	AP-3787	0	8080	10/03/1996	Soil	0.02	U	0.02	0.1
CHLORDANE	PEST/PCB	965752BH04	96575236SL-AVG	AP-3788	0	8080	10/03/1996	Soil	0.02	U	0.02	0.1
CHLOROBENZENE	VOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
CHLOROBENZENE	VOC	Cooling Pond	94575242SD	SD-B	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
CHLOROBENZENE	VOC	Cooling Pond	94575243SD	SD-C	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
CHLOROBENZENE	VOC	Cooling Pond	94575244SD	SD-D	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
CHLOROBENZENE	VOC	Cooling Pond	94575245SD	SD-E	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
CHLOROBENZENE	VOC	Cooling Pond	94575246SD	SD-F	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
CHLOROBENZENE	VOC	Cooling Pond	94575247SD	SD-G	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
CHLOROBENZENE	VOC	Cooling Pond	94575248SD	SD-H	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
CHLOROBENZENE	VOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
CHLOROBENZENE	VOC	119 ft from DP	96575205SD	96-SD5	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
CHLOROBENZENE	VOC	147 ft from DP	96575206SD	96-SD6	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
CHLOROBENZENE	VOC	165 ft from DP	96575208SD	96-SD8	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
CHLOROBENZENE	VOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
CHLOROBENZENE	VOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8260	09/25/1996	Sediment	0.006	U	0.006	0.015
CHLOROBENZENE	VOC	40 ft from DP	96575202SD	96-SD2	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
CHLOROBENZENE	VOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
CHLOROBENZENE	VOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
CHLOROBENZENE	VOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8260	09/26/1996	Sediment	0.004	U	0.004	0.01
CHLOROBENZENE	VOC	Drum Accumulation Area	94575210SL	SS 8	2'	8260	10/06/1994	Soil	0.005	U		0.005
CHLOROBENZENE	VOC	Drum Accumulation Area	94575211SL	SS 7	2'	8260	10/10/1994	Soil	0.005	U		0.005
CHLOROBENZENE	VOC	Drum Accumulation Area	94575212SL	SS 6	2'	8260	10/10/1994	Soil	0.005	U		0.005
CHLOROBENZENE	VOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8260	10/10/1994	Soil	0.005	U		0.005
CHLOROBENZENE	VOC	Drum Accumulation Area	94575215SL	SS 4	2'	8260	10/10/1994	Soil	0.005	U		0.005
CHLOROBENZENE	VOC	Drum Accumulation Area	94575216SL	SS 3	2'	8260	10/10/1994	Soil	0.005	U		0.005
CHLOROBENZENE	VOC	Drum Accumulation Area	94575217SL	SS 2	2'	8260	10/10/1994	Soil	0.005	U		0.005
CHLOROBENZENE	VOC	Drum Accumulation Area	94575218SL	SS 1	2'	8260	10/10/1994	Soil	0.005	U		0.005
CHLOROBENZENE	VOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8260	11/03/1994	Soil	0.005	U		0.005
CHLOROBENZENE	VOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8260	11/03/1994	Soil	0.005	U		0.005
CHLOROBENZENE	VOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8260	11/07/1994	Soil	0.005	U		0.005
CHLOROBENZENE	VOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8260	11/09/1994	Soil	0.005	U		0.005
CHLOROBENZENE	VOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8260	11/11/1994	Soil	0.005	U		0.005
CHLOROBENZENE	VOC	965752BH01	96575225SL	AP-3785	5	8260	10/02/1996	Soil	0.002	U	0.002	0.002
CHLOROBENZENE	VOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8260	10/03/1996	Soil	0.002	U	0.002	0.002

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
CHLOROBENZENE	VOC	965752BH04	96575238SL	AP-3788	2.5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
CHLOROBENZENE	VOC	965752BH04	96575239SL-AVG	AP-3788	5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
CHLOROBENZENE	VOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8260	10/06/1994	Soil	0.005	U		0.005
CHLOROBENZENE	VOC	Drum Accumulation Area	94575203SL	SS 2	6"	8260	10/06/1994	Soil	0.005	U		0.005
CHLOROBENZENE	VOC	Drum Accumulation Area	94575204SL	SS 3	6"	8260	10/06/1994	Soil	0.005	U		0.005
CHLOROBENZENE	VOC	Drum Accumulation Area	94575205SL	SS 4	6"	8260	10/06/1994	Soil	0.005	U		0.005
CHLOROBENZENE	VOC	Drum Accumulation Area	94575206SL	SS 5	6"	8260	10/06/1994	Soil	0.005	U		0.005
CHLOROBENZENE	VOC	Drum Accumulation Area	94575207SL	SS 6	6"	8260	10/06/1994	Soil	0.005	U		0.005
CHLOROBENZENE	VOC	Drum Accumulation Area	94575208SL	SS 7	6"	8260	10/06/1994	Soil	0.005	U		0.005
CHLOROBENZENE	VOC	Drum Accumulation Area	94575209SL	SS 8	6"	8260	10/06/1994	Soil	0.005	U		0.005
CHLOROBENZENE	VOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8260	11/03/1994	Soil	0.005	U		0.005
CHLOROBENZENE	VOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8260	11/03/1994	Soil	0.005	U		0.005
CHLOROBENZENE	VOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8260	11/07/1994	Soil	0.005	U		0.005
CHLOROBENZENE	VOC	Cooling Pond	94575231SL	AP-3503	0-6'	8260	11/08/1994	Soil	0.005	U		0.005
CHLOROBENZENE	VOC	Cooling Pond	94575235SL	AP-3504	0-2'	8260	11/09/1994	Soil	0.005	U		0.005
CHLOROBENZENE	VOC	965752BH03	96575230SL	AP-3787	0	8260	10/03/1996	Soil	0.002	U	0.002	0.005
CHLOROBENZENE	VOC	965752BH04	96575236SL-AVG	AP-3788	0	8260	10/03/1996	Soil	0.002	U	0.002	0.005
CHLOROBENZENE	VOC	Tank 1109; BH-12	90FRUST86 soil	AP-2982	5-6.5'	8020	08/21/1990	Soil	0.012	U		0.012
CHLOROBENZENE	VOC	Tank 1109; BH-13	90FRUST90 soil	AP-2983	5-5.5'	8020	08/21/1990	Soil	0.011	U		0.011
CHLOROETHANE	VOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
CHLOROETHANE	VOC	Cooling Pond	94575242SD	SD-B	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
CHLOROETHANE	VOC	Cooling Pond	94575243SD	SD-C	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
CHLOROETHANE	VOC	Cooling Pond	94575244SD	SD-D	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
CHLOROETHANE	VOC	Cooling Pond	94575245SD	SD-E	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
CHLOROETHANE	VOC	Cooling Pond	94575246SD	SD-F	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
CHLOROETHANE	VOC	Cooling Pond	94575247SD	SD-G	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
CHLOROETHANE	VOC	Cooling Pond	94575248SD	SD-H	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
CHLOROETHANE	VOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.01
CHLOROETHANE	VOC	119 ft from DP	96575205SD	96-SD5	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.01
CHLOROETHANE	VOC	147 ft from DP	96575206SD	96-SD6	----	8260	09/25/1996	Sediment	0.0007	U	0.0007	0.005
CHLOROETHANE	VOC	165 ft from DP	96575208SD	96-SD8	----	8260	09/25/1996	Sediment	0.0007	U	0.0007	0.005
CHLOROETHANE	VOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8260	09/25/1996	Sediment	0.0007	U	0.0007	0.005
CHLOROETHANE	VOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8260	09/25/1996	Sediment	0.003	U	0.003	0.015
CHLOROETHANE	VOC	40 ft from DP	96575202SD	96-SD2	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.01
CHLOROETHANE	VOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.01
CHLOROETHANE	VOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8260	09/25/1996	Sediment	0.0007	U	0.0007	0.005
CHLOROETHANE	VOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8260	09/26/1996	Sediment	0.002	U	0.002	0.01
CHLOROETHANE	VOC	Drum Accumulation Area	94575210SL	SS 8	2'	8260	10/06/1994	Soil	0.005	U		0.005
CHLOROETHANE	VOC	Drum Accumulation Area	94575211SL	SS 7	2'	8260	10/10/1994	Soil	0.005	U		0.005
CHLOROETHANE	VOC	Drum Accumulation Area	94575212SL	SS 6	2'	8260	10/10/1994	Soil	0.005	U		0.005
CHLOROETHANE	VOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8260	10/10/1994	Soil	0.005	U		0.005
CHLOROETHANE	VOC	Drum Accumulation Area	94575215SL	SS 4	2'	8260	10/10/1994	Soil	0.005	U		0.005
CHLOROETHANE	VOC	Drum Accumulation Area	94575216SL	SS 3	2'	8260	10/10/1994	Soil	0.005	U		0.005
CHLOROETHANE	VOC	Drum Accumulation Area	94575217SL	SS 2	2'	8260	10/10/1994	Soil	0.005	U		0.005
CHLOROETHANE	VOC	Drum Accumulation Area	94575218SL	SS 1	2'	8260	10/10/1994	Soil	0.005	U		0.005
CHLOROETHANE	VOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8260	11/03/1994	Soil	0.005	U		0.005
CHLOROETHANE	VOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8260	11/03/1994	Soil	0.005	U		0.005
CHLOROETHANE	VOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8260	11/07/1994	Soil	0.005	U		0.005
CHLOROETHANE	VOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8260	11/09/1994	Soil	0.005	U		0.005
CHLOROETHANE	VOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8260	11/11/1994	Soil	0.005	U		0.005
CHLOROETHANE	VOC	965752BH01	96575225SL	AP-3785	5	8260	10/02/1996	Soil	0.0007	U	0.0007	0.0007
CHLOROETHANE	VOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8260	10/03/1996	Soil	0.0007	U	0.0007	0.0007
CHLOROETHANE	VOC	965752BH04	96575238SL	AP-3788	2.5	8260	10/03/1996	Soil	0.0007	U	0.0007	0.0007
CHLOROETHANE	VOC	965752BH04	96575239SL-AVG	AP-3788	5	8260	10/03/1996	Soil	0.0007	U	0.0007	0.0007
CHLOROETHANE	VOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8260	10/06/1994	Soil	0.005	U		0.005
CHLOROETHANE	VOC	Drum Accumulation Area	94575203SL	SS 2	6"	8260	10/06/1994	Soil	0.005	U		0.005
CHLOROETHANE	VOC	Drum Accumulation Area	94575204SL	SS 3	6"	8260	10/06/1994	Soil	0.005	U		0.005
CHLOROETHANE	VOC	Drum Accumulation Area	94575205SL	SS 4	6"	8260	10/06/1994	Soil	0.005	U		0.005
CHLOROETHANE	VOC	Drum Accumulation Area	94575206SL	SS 5	6"	8260	10/06/1994	Soil	0.005	U		0.005
CHLOROETHANE	VOC	Drum Accumulation Area	94575207SL	SS 6	6"	8260	10/06/1994	Soil	0.005	U		0.005
CHLOROETHANE	VOC	Drum Accumulation Area	94575208SL	SS 7	6"	8260	10/06/1994	Soil	0.005	U		0.005
CHLOROETHANE	VOC	Drum Accumulation Area	94575209SL	SS 8	6"	8260	10/06/1994	Soil	0.005	U		0.005

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
CHLOROETHANE	VOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8260	11/03/1994	Soil	0.005	U		0.005
CHLOROETHANE	VOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8260	11/03/1994	Soil	0.005	U		0.005
CHLOROETHANE	VOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8260	11/07/1994	Soil	0.005	U		0.005
CHLOROETHANE	VOC	Cooling Pond	94575231SL	AP-3503	0-6'	8260	11/08/1994	Soil	0.005	U		0.005
CHLOROETHANE	VOC	Cooling Pond	94575235SL	AP-3504	0-2'	8260	11/09/1994	Soil	0.005	U		0.005
CHLOROETHANE	VOC	965752BH03	96575230SL	AP-3787	0	8260	10/03/1996	Soil	0.0007	U	0.0007	0.005
CHLOROETHANE	VOC	965752BH04	96575236SL-AVG	AP-3788	0	8260	10/03/1996	Soil	0.0007	U	0.0007	0.005
CHLOROFORM	VOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
CHLOROFORM	VOC	Cooling Pond	94575242SD	SD-B	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
CHLOROFORM	VOC	Cooling Pond	94575243SD	SD-C	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
CHLOROFORM	VOC	Cooling Pond	94575244SD	SD-D	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
CHLOROFORM	VOC	Cooling Pond	94575245SD	SD-E	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
CHLOROFORM	VOC	Cooling Pond	94575246SD	SD-F	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
CHLOROFORM	VOC	Cooling Pond	94575247SD	SD-G	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
CHLOROFORM	VOC	Cooling Pond	94575248SD	SD-H	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
CHLOROFORM	VOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
CHLOROFORM	VOC	119 ft from DP	96575205SD	96-SD5	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
CHLOROFORM	VOC	147 ft from DP	96575206SD	96-SD6	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
CHLOROFORM	VOC	165 ft from DP	96575208SD	96-SD8	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
CHLOROFORM	VOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
CHLOROFORM	VOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8260	09/25/1996	Sediment	0.006	U	0.006	0.015
CHLOROFORM	VOC	40 ft from DP	96575202SD	96-SD2	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
CHLOROFORM	VOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
CHLOROFORM	VOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
CHLOROFORM	VOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8260	09/26/1996	Sediment	0.004	U	0.004	0.01
CHLOROFORM	VOC	Drum Accumulation Area	94575210SL	SS 8	2'	8260	10/06/1994	Soil	0.005	U		0.005
CHLOROFORM	VOC	Drum Accumulation Area	94575211SL	SS 7	2'	8260	10/10/1994	Soil	0.005	U		0.005
CHLOROFORM	VOC	Drum Accumulation Area	94575212SL	SS 6	2'	8260	10/10/1994	Soil	0.005	U		0.005
CHLOROFORM	VOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8260	10/10/1994	Soil	0.005	U		0.005
CHLOROFORM	VOC	Drum Accumulation Area	94575215SL	SS 4	2'	8260	10/10/1994	Soil	0.005	U		0.005
CHLOROFORM	VOC	Drum Accumulation Area	94575216SL	SS 3	2'	8260	10/10/1994	Soil	0.005	U		0.005
CHLOROFORM	VOC	Drum Accumulation Area	94575217SL	SS 2	2'	8260	10/10/1994	Soil	0.005	U		0.005
CHLOROFORM	VOC	Drum Accumulation Area	94575218SL	SS 1	2'	8260	10/10/1994	Soil	0.005	U		0.005
CHLOROFORM	VOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8260	11/03/1994	Soil	0.005	U		0.005
CHLOROFORM	VOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8260	11/03/1994	Soil	0.005	U		0.005
CHLOROFORM	VOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8260	11/07/1994	Soil	0.005	U		0.005
CHLOROFORM	VOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8260	11/09/1994	Soil	0.005	U		0.005
CHLOROFORM	VOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8260	11/11/1994	Soil	0.005	U		0.005
CHLOROFORM	VOC	965752BH01	96575225SL	AP-3785	5	8260	10/02/1996	Soil	0.002	U	0.002	0.002
CHLOROFORM	VOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
CHLOROFORM	VOC	965752BH04	96575238SL	AP-3788	2.5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
CHLOROFORM	VOC	965752BH04	96575239SL-AVG	AP-3788	5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
CHLOROFORM	VOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8260	10/06/1994	Soil	0.005	U		0.005
CHLOROFORM	VOC	Drum Accumulation Area	94575203SL	SS 2	6"	8260	10/06/1994	Soil	0.005	U		0.005
CHLOROFORM	VOC	Drum Accumulation Area	94575204SL	SS 3	6"	8260	10/06/1994	Soil	0.005	U		0.005
CHLOROFORM	VOC	Drum Accumulation Area	94575205SL	SS 4	6"	8260	10/06/1994	Soil	0.005	U		0.005
CHLOROFORM	VOC	Drum Accumulation Area	94575206SL	SS 5	6"	8260	10/06/1994	Soil	0.005	U		0.005
CHLOROFORM	VOC	Drum Accumulation Area	94575207SL	SS 6	6"	8260	10/06/1994	Soil	0.005	U		0.005
CHLOROFORM	VOC	Drum Accumulation Area	94575208SL	SS 7	6"	8260	10/06/1994	Soil	0.005	U		0.005
CHLOROFORM	VOC	Drum Accumulation Area	94575209SL	SS 8	6"	8260	10/06/1994	Soil	0.005	U		0.005
CHLOROFORM	VOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8260	11/03/1994	Soil	0.005	U		0.005
CHLOROFORM	VOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8260	11/03/1994	Soil	0.005	U		0.005
CHLOROFORM	VOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8260	11/07/1994	Soil	0.005	U		0.005
CHLOROFORM	VOC	Cooling Pond	94575231SL	AP-3503	0-6'	8260	11/08/1994	Soil	0.005	U		0.005
CHLOROFORM	VOC	Cooling Pond	94575235SL	AP-3504	0-2'	8260	11/09/1994	Soil	0.005	U		0.005
CHLOROFORM	VOC	965752BH03	96575230SL	AP-3787	0	8260	10/03/1996	Soil	0.002	U	0.002	0.005
CHLOROFORM	VOC	965752BH04	96575236SL-AVG	AP-3788	0	8260	10/03/1996	Soil	0.002	U	0.002	0.005
CHLOROMETHANE	VOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
CHLOROMETHANE	VOC	Cooling Pond	94575242SD	SD-B	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
CHLOROMETHANE	VOC	Cooling Pond	94575243SD	SD-C	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
CHLOROMETHANE	VOC	Cooling Pond	94575244SD	SD-D	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
CHLOROMETHANE	VOC	Cooling Pond	94575245SD	SD-E	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005

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Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
CHLOROMETHANE	VOC	Cooling Pond	94575246SD	SD-F	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
CHLOROMETHANE	VOC	Cooling Pond	94575247SD	SD-G	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
CHLOROMETHANE	VOC	Cooling Pond	94575248SD	SD-H	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
CHLOROMETHANE	VOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.01
CHLOROMETHANE	VOC	119 ft from DP	96575205SD	96-SD5	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.01
CHLOROMETHANE	VOC	147 ft from DP	96575206SD	96-SD6	----	8260	09/25/1996	Sediment	0.0009	U	0.0009	0.005
CHLOROMETHANE	VOC	165 ft from DP	96575208SD	96-SD8	----	8260	09/25/1996	Sediment	0.0009	U	0.0009	0.005
CHLOROMETHANE	VOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8260	09/25/1996	Sediment	0.0009	U	0.0009	0.005
CHLOROMETHANE	VOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8260	09/25/1996	Sediment	0.003	U	0.003	0.015
CHLOROMETHANE	VOC	40 ft from DP	96575202SD	96-SD2	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.01
CHLOROMETHANE	VOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.01
CHLOROMETHANE	VOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8260	09/25/1996	Sediment	0.0009	U	0.0009	0.005
CHLOROMETHANE	VOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8260	09/26/1996	Sediment	0.002	U	0.002	0.01
CHLOROMETHANE	VOC	Drum Accumulation Area	94575210SL	SS 8	2'	8260	10/06/1994	Soil	0.005	U		0.005
CHLOROMETHANE	VOC	Drum Accumulation Area	94575211SL	SS 7	2'	8260	10/10/1994	Soil	0.005	U		0.005
CHLOROMETHANE	VOC	Drum Accumulation Area	94575212SL	SS 6	2'	8260	10/10/1994	Soil	0.005	U		0.005
CHLOROMETHANE	VOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8260	10/10/1994	Soil	0.005	U		0.005
CHLOROMETHANE	VOC	Drum Accumulation Area	94575215SL	SS 4	2'	8260	10/10/1994	Soil	0.005	U		0.005
CHLOROMETHANE	VOC	Drum Accumulation Area	94575216SL	SS 3	2'	8260	10/10/1994	Soil	0.005	U		0.005
CHLOROMETHANE	VOC	Drum Accumulation Area	94575217SL	SS 2	2'	8260	10/10/1994	Soil	0.005	U		0.005
CHLOROMETHANE	VOC	Drum Accumulation Area	94575218SL	SS 1	2'	8260	10/10/1994	Soil	0.005	U		0.005
CHLOROMETHANE	VOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8260	11/03/1994	Soil	0.005	U		0.005
CHLOROMETHANE	VOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8260	11/03/1994	Soil	0.005	U		0.005
CHLOROMETHANE	VOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8260	11/07/1994	Soil	0.005	U		0.005
CHLOROMETHANE	VOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8260	11/09/1994	Soil	0.005	U		0.005
CHLOROMETHANE	VOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8260	11/11/1994	Soil	0.005	U		0.005
CHLOROMETHANE	VOC	965752BH01	96575225SL	AP-3785	5	8260	10/02/1996	Soil	0.0009	U	0.0009	0.0009
CHLOROMETHANE	VOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8260	10/03/1996	Soil	0.0009	U	0.0009	0.0009
CHLOROMETHANE	VOC	965752BH04	96575238SL	AP-3788	2.5	8260	10/03/1996	Soil	0.0009	U	0.0009	0.0009
CHLOROMETHANE	VOC	965752BH04	96575239SL-AVG	AP-3788	5	8260	10/03/1996	Soil	0.0009	U	0.0009	0.0009
CHLOROMETHANE	VOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8260	10/06/1994	Soil	0.005	U		0.005
CHLOROMETHANE	VOC	Drum Accumulation Area	94575203SL	SS 2	6"	8260	10/06/1994	Soil	0.005	U		0.005
CHLOROMETHANE	VOC	Drum Accumulation Area	94575204SL	SS 3	6"	8260	10/06/1994	Soil	0.005	U		0.005
CHLOROMETHANE	VOC	Drum Accumulation Area	94575205SL	SS 4	6"	8260	10/06/1994	Soil	0.005	U		0.005
CHLOROMETHANE	VOC	Drum Accumulation Area	94575206SL	SS 5	6"	8260	10/06/1994	Soil	0.005	U		0.005
CHLOROMETHANE	VOC	Drum Accumulation Area	94575207SL	SS 6	6"	8260	10/06/1994	Soil	0.005	U		0.005
CHLOROMETHANE	VOC	Drum Accumulation Area	94575208SL	SS 7	6"	8260	10/06/1994	Soil	0.005	U		0.005
CHLOROMETHANE	VOC	Drum Accumulation Area	94575209SL	SS 8	6"	8260	10/06/1994	Soil	0.005	U		0.005
CHLOROMETHANE	VOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8260	11/03/1994	Soil	0.005	U		0.005
CHLOROMETHANE	VOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8260	11/03/1994	Soil	0.005	U		0.005
CHLOROMETHANE	VOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8260	11/07/1994	Soil	0.005	U		0.005
CHLOROMETHANE	VOC	Cooling Pond	94575231SL	AP-3503	0-6'	8260	11/08/1994	Soil	0.005	U		0.005
CHLOROMETHANE	VOC	Cooling Pond	94575235SL	AP-3504	0-2'	8260	11/09/1994	Soil	0.005	U		0.005
CHLOROMETHANE	VOC	965752BH03	96575230SL	AP-3787	0	8260	10/03/1996	Soil	0.0009	U	0.0009	0.005
CHLOROMETHANE	VOC	965752BH04	96575236SL-AVG	AP-3788	0	8260	10/03/1996	Soil	0.0009	U	0.0009	0.005
CHROMIUM, TOTAL	METAL	Cooling Pond	94575240SD-AVG	SD-A	0-6"	METALS	12/08/1994	Sediment	34.5	=		2
CHROMIUM, TOTAL	METAL	Cooling Pond	94575242SD	SD-B	0-6"	METALS	12/08/1994	Sediment	43	=		2
CHROMIUM, TOTAL	METAL	Cooling Pond	94575243SD	SD-C	0-6"	METALS	12/08/1994	Sediment	33	=		2
CHROMIUM, TOTAL	METAL	Cooling Pond	94575244SD	SD-D	0-6"	METALS	12/08/1994	Sediment	46	=		2
CHROMIUM, TOTAL	METAL	Cooling Pond	94575245SD	SD-E	0-6"	METALS	12/08/1994	Sediment	33	=		2
CHROMIUM, TOTAL	METAL	Cooling Pond	94575246SD	SD-F	0-6"	METALS	12/08/1994	Sediment	26	=		2
CHROMIUM, TOTAL	METAL	Cooling Pond	94575247SD	SD-G	0-6"	METALS	12/08/1994	Sediment	45	=		2
CHROMIUM, TOTAL	METAL	Cooling Pond	94575248SD	SD-H	0-6"	METALS	12/08/1994	Sediment	43	=		2
CHROMIUM, TOTAL	METAL	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	METALS	09/25/1996	Sediment	50	=	0.6	2
CHROMIUM, TOTAL	METAL	119 ft from DP	96575205SD	96-SD5	----	METALS	09/25/1996	Sediment	34	=	0.6	2
CHROMIUM, TOTAL	METAL	147 ft from DP	96575206SD	96-SD6	----	METALS	09/25/1996	Sediment	31	=	0.6	2
CHROMIUM, TOTAL	METAL	165 ft from DP	96575208SD	96-SD8	----	METALS	09/25/1996	Sediment	36	=	0.6	2
CHROMIUM, TOTAL	METAL	171 ft from DP (east side)	96575209SD	96-SD9	----	METALS	09/25/1996	Sediment	35	=	0.6	2
CHROMIUM, TOTAL	METAL	171 ft from DP (west side)	96575207SD	96-SD7	----	METALS	09/25/1996	Sediment	46	=	0.6	2
CHROMIUM, TOTAL	METAL	40 ft from DP	96575202SD	96-SD2	----	METALS	09/25/1996	Sediment	37	=	0.6	2
CHROMIUM, TOTAL	METAL	79 ft from DP	96575203SD-AVG	96-SD3	----	METALS	09/25/1996	Sediment	31.5	=	0.6	2
CHROMIUM, TOTAL	METAL	Discharge pipe (DP)	96575201SD	96-SD1	----	METALS	09/25/1996	Sediment	30	=	0.6	2

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
CHROMIUM, TOTAL	METAL	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	METALS	09/26/1996	Sediment	64	=	0.6	2
CHROMIUM, TOTAL	METAL	Drum Accumulation Area	94575210SL	SS 8	2'	METALS	10/06/1994	Soil	32	=		2
CHROMIUM, TOTAL	METAL	Drum Accumulation Area	94575211SL	SS 7	2'	METALS	10/10/1994	Soil	34	=		2
CHROMIUM, TOTAL	METAL	Drum Accumulation Area	94575212SL	SS 6	2'	METALS	10/10/1994	Soil	34	=		2
CHROMIUM, TOTAL	METAL	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	METALS	10/10/1994	Soil	34.5	=		2
CHROMIUM, TOTAL	METAL	Drum Accumulation Area	94575215SL	SS 4	2'	METALS	10/10/1994	Soil	36	=		2
CHROMIUM, TOTAL	METAL	Drum Accumulation Area	94575216SL	SS 3	2'	METALS	10/10/1994	Soil	24	=		2
CHROMIUM, TOTAL	METAL	Drum Accumulation Area	94575217SL	SS 2	2'	METALS	10/10/1994	Soil	38	=		2
CHROMIUM, TOTAL	METAL	Drum Accumulation Area	94575218SL	SS 1	2'	METALS	10/10/1994	Soil	30	=		2
CHROMIUM, TOTAL	METAL	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	METALS	11/03/1994	Soil	28	=		2
CHROMIUM, TOTAL	METAL	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	METALS	11/03/1994	Soil	40	=		2
CHROMIUM, TOTAL	METAL	Cooling Pond	94575229SL	AP-3502	4'-6'	METALS	11/07/1994	Soil	37	=		2
CHROMIUM, TOTAL	METAL	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	METALS	11/09/1994	Soil	34.5	=		2
CHROMIUM, TOTAL	METAL	Cooling Pond	94575240SL	AP-3501	5'-7'	METALS	11/11/1994	Soil	38	=		2
CHROMIUM, TOTAL	METAL	965752BH03	96575231SL-AVG	AP-3787	2.5	METALS	10/03/1996	Soil	32	=	0.6	0.6
CHROMIUM, TOTAL	METAL	965752BH03	96575233SL	AP-3787	5	METALS	10/03/1996	Soil	31	=	0.6	0.6
CHROMIUM, TOTAL	METAL	965752BH04	96575238SL	AP-3788	2.5	METALS	10/03/1996	Soil	29	=	0.6	0.6
CHROMIUM, TOTAL	METAL	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	METALS	10/06/1994	Soil	32	=		2
CHROMIUM, TOTAL	METAL	Drum Accumulation Area	94575203SL	SS 2	6"	METALS	10/06/1994	Soil	29	=		2
CHROMIUM, TOTAL	METAL	Drum Accumulation Area	94575204SL	SS 3	6"	METALS	10/06/1994	Soil	36	=		2
CHROMIUM, TOTAL	METAL	Drum Accumulation Area	94575205SL	SS 4	6"	METALS	10/06/1994	Soil	30	=		2
CHROMIUM, TOTAL	METAL	Drum Accumulation Area	94575206SL	SS 5	6"	METALS	10/06/1994	Soil	23	=		2
CHROMIUM, TOTAL	METAL	Drum Accumulation Area	94575207SL	SS 6	6"	METALS	10/06/1994	Soil	25	=		2
CHROMIUM, TOTAL	METAL	Drum Accumulation Area	94575208SL	SS 7	6"	METALS	10/06/1994	Soil	30	=		2
CHROMIUM, TOTAL	METAL	Drum Accumulation Area	94575209SL	SS 8	6"	METALS	10/06/1994	Soil	33	=		2
CHROMIUM, TOTAL	METAL	Drum Accumulation Area	94575219SL	AP-3505	0-4'	METALS	11/03/1994	Soil	26	=		2
CHROMIUM, TOTAL	METAL	Drum Accumulation Area	94575223SL	AP-3506	0-2'	METALS	11/03/1994	Soil	30	=		2
CHROMIUM, TOTAL	METAL	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	METALS	11/07/1994	Soil	33.5	=		2
CHROMIUM, TOTAL	METAL	Cooling Pond	94575231SL	AP-3503	0-6'	METALS	11/08/1994	Soil	27	=		2
CHROMIUM, TOTAL	METAL	Cooling Pond	94575235SL	AP-3504	0-2'	METALS	11/09/1994	Soil	32	=		2
CHROMIUM, TOTAL	METAL	965752BH03	96575230SL	AP-3787	0	METALS	10/03/1996	Soil	27	=	0.6	2
CHROMIUM, TOTAL	METAL	965752BH04	96575236SL-AVG	AP-3788	0	METALS	10/03/1996	Soil	35.5	=	0.6	2
CHRYSENE	SVOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
CHRYSENE	SVOC	Cooling Pond	94575242SD	SD-B	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
CHRYSENE	SVOC	Cooling Pond	94575243SD	SD-C	0-6"	8270	12/08/1994	Sediment	4	U		4
CHRYSENE	SVOC	Cooling Pond	94575244SD	SD-D	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
CHRYSENE	SVOC	Cooling Pond	94575245SD	SD-E	0-6"	8270	12/08/1994	Sediment	1.1	=		0.3
CHRYSENE	SVOC	Cooling Pond	94575246SD	SD-F	0-6"	8270	12/08/1994	Sediment	0.8	=		0.3
CHRYSENE	SVOC	Cooling Pond	94575247SD	SD-G	0-6"	8270	12/08/1994	Sediment	0.8	U		0.8
CHRYSENE	SVOC	Cooling Pond	94575248SD	SD-H	0-6"	8270	12/08/1994	Sediment	1.8	=		0.3
CHRYSENE	SVOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8270	09/25/1996	Sediment	0.4	U	0.4	3
CHRYSENE	SVOC	119 ft from DP	96575205SD	96-SD5	----	8270	09/25/1996	Sediment	0.3	J	0.09	0.7
CHRYSENE	SVOC	147 ft from DP	96575206SD	96-SD6	----	8270	09/25/1996	Sediment	0.2	J	0.04	0.3
CHRYSENE	SVOC	165 ft from DP	96575208SD	96-SD8	----	8270	09/25/1996	Sediment	0.9	=	0.04	0.3
CHRYSENE	SVOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8270	09/25/1996	Sediment	0.2	J	0.04	0.3
CHRYSENE	SVOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8270	09/25/1996	Sediment	0.2	J	0.08	0.7
CHRYSENE	SVOC	40 ft from DP	96575202SD	96-SD2	----	8270	09/25/1996	Sediment	2.4	=	0.09	0.7
CHRYSENE	SVOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8270	09/25/1996	Sediment	0.3	J	0.09	0.7
CHRYSENE	SVOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8270	09/25/1996	Sediment	0.04	U	0.04	0.3
CHRYSENE	SVOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8270	09/26/1996	Sediment	0.6	J	0.2	1.2
CHRYSENE	SVOC	Downstream end of 35-752 pond	975752007SD-AVG	96-SD007	0	SIM	10/21/1997	Sediment	0.312	=	0.0006	0.005
CHRYSENE	SVOC	Drum Accumulation Area	94575210SL	SS 8	2'	8270	10/06/1994	Soil	0.3	U		0.3
CHRYSENE	SVOC	Drum Accumulation Area	94575211SL	SS 7	2'	8270	10/10/1994	Soil	0.3	U		0.3
CHRYSENE	SVOC	Drum Accumulation Area	94575212SL	SS 6	2'	8270	10/10/1994	Soil	0.3	U		0.3
CHRYSENE	SVOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8270	10/10/1994	Soil	0.5	U		0.5
CHRYSENE	SVOC	Drum Accumulation Area	94575215SL	SS 4	2'	8270	10/10/1994	Soil	0.3	U		0.3
CHRYSENE	SVOC	Drum Accumulation Area	94575216SL	SS 3	2'	8270	10/10/1994	Soil	0.3	U		0.3
CHRYSENE	SVOC	Drum Accumulation Area	94575217SL	SS 2	2'	8270	10/10/1994	Soil	0.3	U		0.3
CHRYSENE	SVOC	Drum Accumulation Area	94575218SL	SS 1	2'	8270	10/10/1994	Soil	0.3	U		0.3
CHRYSENE	SVOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8270	11/03/1994	Soil	0.85	=		0.3
CHRYSENE	SVOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8270	11/03/1994	Soil	0.3	U		0.3
CHRYSENE	SVOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8270	11/07/1994	Soil	0.3	U		0.3

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Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
CHRYSENE	SVOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8270	11/09/1994	Soil	0.3	U		0.3
CHRYSENE	SVOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8270	11/11/1994	Soil	0.3	U		0.3
CHRYSENE	SVOC	965752BH01	96575225SL	AP-3785	5	8270	10/02/1996	Soil	0.04	U	0.04	0.04
CHRYSENE	SVOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8270	10/03/1996	Soil	0.2	UJ	0.08	0.08
CHRYSENE	SVOC	965752BH03	96575233SL	AP-3787	5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
CHRYSENE	SVOC	965752BH04	96575238SL	AP-3788	2.5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
CHRYSENE	SVOC	965752BH04	96575239SL-AVG	AP-3788	5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
CHRYSENE	SVOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8270	10/06/1994	Soil	0.3	U		0.3
CHRYSENE	SVOC	Drum Accumulation Area	94575203SL	SS 2	6"	8270	10/06/1994	Soil	0.3	U		0.3
CHRYSENE	SVOC	Drum Accumulation Area	94575204SL	SS 3	6"	8270	10/06/1994	Soil	0.3	U		0.3
CHRYSENE	SVOC	Drum Accumulation Area	94575205SL	SS 4	6"	8270	10/06/1994	Soil	0.3	=		0.3
CHRYSENE	SVOC	Drum Accumulation Area	94575206SL	SS 5	6"	8270	10/06/1994	Soil	0.3	U		0.3
CHRYSENE	SVOC	Drum Accumulation Area	94575207SL	SS 6	6"	8270	10/06/1994	Soil	0.3	U		0.3
CHRYSENE	SVOC	Drum Accumulation Area	94575208SL	SS 7	6"	8270	10/06/1994	Soil	0.3	U		0.3
CHRYSENE	SVOC	Drum Accumulation Area	94575209SL	SS 8	6"	8270	10/06/1994	Soil	0.8	=		0.3
CHRYSENE	SVOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8270	11/03/1994	Soil	0.6	U		0.6
CHRYSENE	SVOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8270	11/03/1994	Soil	0.6	U		0.6
CHRYSENE	SVOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8270	11/07/1994	Soil	0.3	U		0.3
CHRYSENE	SVOC	Cooling Pond	94575231SL	AP-3503	0-6'	8270	11/08/1994	Soil	0.3	U		0.3
CHRYSENE	SVOC	Cooling Pond	94575235SL	AP-3504	0-2'	8270	11/09/1994	Soil	0.3	U		0.3
CHRYSENE	SVOC	965752BH03	96575230SL	AP-3787	0	8270	10/03/1996	Soil	0.2	J	0.04	0.3
CHRYSENE	SVOC	965752BH04	96575236SL-AVG	AP-3788	0	8270	10/03/1996	Soil	0.04	U	0.04	0.3
cis-1,2-DICHLOROETHYLENE	VOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
cis-1,2-DICHLOROETHYLENE	VOC	Cooling Pond	94575242SD	SD-B	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
cis-1,2-DICHLOROETHYLENE	VOC	Cooling Pond	94575243SD	SD-C	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
cis-1,2-DICHLOROETHYLENE	VOC	Cooling Pond	94575244SD	SD-D	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
cis-1,2-DICHLOROETHYLENE	VOC	Cooling Pond	94575245SD	SD-E	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
cis-1,2-DICHLOROETHYLENE	VOC	Cooling Pond	94575246SD	SD-F	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
cis-1,2-DICHLOROETHYLENE	VOC	Cooling Pond	94575247SD	SD-G	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
cis-1,2-DICHLOROETHYLENE	VOC	Cooling Pond	94575248SD	SD-H	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
cis-1,2-DICHLOROETHYLENE	VOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.01
cis-1,2-DICHLOROETHYLENE	VOC	119 ft from DP	96575205SD	96-SD5	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.01
cis-1,2-DICHLOROETHYLENE	VOC	147 ft from DP	96575206SD	96-SD6	----	8260	09/25/1996	Sediment	0.0008	U	0.0008	0.005
cis-1,2-DICHLOROETHYLENE	VOC	165 ft from DP	96575208SD	96-SD8	----	8260	09/25/1996	Sediment	0.0008	U	0.0008	0.005
cis-1,2-DICHLOROETHYLENE	VOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8260	09/25/1996	Sediment	0.0008	U	0.0008	0.005
cis-1,2-DICHLOROETHYLENE	VOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8260	09/25/1996	Sediment	0.003	U	0.003	0.015
cis-1,2-DICHLOROETHYLENE	VOC	40 ft from DP	96575202SD	96-SD2	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.01
cis-1,2-DICHLOROETHYLENE	VOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.01
cis-1,2-DICHLOROETHYLENE	VOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8260	09/25/1996	Sediment	0.0008	U	0.0008	0.005
cis-1,2-DICHLOROETHYLENE	VOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8260	09/26/1996	Sediment	0.002	U	0.002	0.01
cis-1,2-DICHLOROETHYLENE	VOC	Drum Accumulation Area	94575210SL	SS 8	2'	8260	10/06/1994	Soil	0.005	U		0.005
cis-1,2-DICHLOROETHYLENE	VOC	Drum Accumulation Area	94575211SL	SS 7	2'	8260	10/10/1994	Soil	0.005	U		0.005
cis-1,2-DICHLOROETHYLENE	VOC	Drum Accumulation Area	94575212SL	SS 6	2'	8260	10/10/1994	Soil	0.005	U		0.005
cis-1,2-DICHLOROETHYLENE	VOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8260	10/10/1994	Soil	0.005	U		0.005
cis-1,2-DICHLOROETHYLENE	VOC	Drum Accumulation Area	94575215SL	SS 4	2'	8260	10/10/1994	Soil	0.005	U		0.005
cis-1,2-DICHLOROETHYLENE	VOC	Drum Accumulation Area	94575216SL	SS 3	2'	8260	10/10/1994	Soil	0.005	U		0.005
cis-1,2-DICHLOROETHYLENE	VOC	Drum Accumulation Area	94575217SL	SS 2	2'	8260	10/10/1994	Soil	0.005	U		0.005
cis-1,2-DICHLOROETHYLENE	VOC	Drum Accumulation Area	94575218SL	SS 1	2'	8260	10/10/1994	Soil	0.005	U		0.005
cis-1,2-DICHLOROETHYLENE	VOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8260	11/03/1994	Soil	0.005	U		0.005
cis-1,2-DICHLOROETHYLENE	VOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8260	11/03/1994	Soil	0.005	U		0.005
cis-1,2-DICHLOROETHYLENE	VOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8260	11/07/1994	Soil	0.005	U		0.005
cis-1,2-DICHLOROETHYLENE	VOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8260	11/09/1994	Soil	0.005	U		0.005
cis-1,2-DICHLOROETHYLENE	VOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8260	11/11/1994	Soil	0.005	U		0.005
cis-1,2-DICHLOROETHYLENE	VOC	965752BH01	96575225SL	AP-3785	5	8260	10/02/1996	Soil	0.0008	U	0.0008	0.0008
cis-1,2-DICHLOROETHYLENE	VOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8260	10/03/1996	Soil	0.0008	U	0.0008	0.0008
cis-1,2-DICHLOROETHYLENE	VOC	965752BH04	96575238SL	AP-3788	2.5	8260	10/03/1996	Soil	0.0008	U	0.0008	0.0008
cis-1,2-DICHLOROETHYLENE	VOC	965752BH04	96575239SL-AVG	AP-3788	5	8260	10/03/1996	Soil	0.0008	U	0.0008	0.0008
cis-1,2-DICHLOROETHYLENE	VOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8260	10/06/1994	Soil	0.005	U		0.005
cis-1,2-DICHLOROETHYLENE	VOC	Drum Accumulation Area	94575203SL	SS 2	6"	8260	10/06/1994	Soil	0.005	U		0.005
cis-1,2-DICHLOROETHYLENE	VOC	Drum Accumulation Area	94575204SL	SS 3	6"	8260	10/06/1994	Soil	0.005	U		0.005
cis-1,2-DICHLOROETHYLENE	VOC	Drum Accumulation Area	94575205SL	SS 4	6"	8260	10/06/1994	Soil	0.005	U		0.005
cis-1,2-DICHLOROETHYLENE	VOC	Drum Accumulation Area	94575206SL	SS 5	6"	8260	10/06/1994	Soil	0.005	U		0.005

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
cis-1,2-DICHLOROETHYLENE	VOC	Drum Accumulation Area	94575207SL	SS 6	6"	8260	10/06/1994	Soil	0.005	U		0.005
cis-1,2-DICHLOROETHYLENE	VOC	Drum Accumulation Area	94575208SL	SS 7	6"	8260	10/06/1994	Soil	0.005	U		0.005
cis-1,2-DICHLOROETHYLENE	VOC	Drum Accumulation Area	94575209SL	SS 8	6"	8260	10/06/1994	Soil	0.005	U		0.005
cis-1,2-DICHLOROETHYLENE	VOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8260	11/03/1994	Soil	0.005	U		0.005
cis-1,2-DICHLOROETHYLENE	VOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8260	11/03/1994	Soil	0.005	U		0.005
cis-1,2-DICHLOROETHYLENE	VOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8260	11/07/1994	Soil	0.0055	UD		0.005
cis-1,2-DICHLOROETHYLENE	VOC	Cooling Pond	94575231SL	AP-3503	0-6'	8260	11/08/1994	Soil	0.005	U		0.005
cis-1,2-DICHLOROETHYLENE	VOC	Cooling Pond	94575235SL	AP-3504	0-2'	8260	11/09/1994	Soil	0.005	U		0.005
cis-1,2-DICHLOROETHYLENE	VOC	965752BH03	96575230SL	AP-3787	0	8260	10/03/1996	Soil	0.0008	U	0.0008	0.005
cis-1,2-DICHLOROETHYLENE	VOC	965752BH04	96575236SL-AVG	AP-3788	0	8260	10/03/1996	Soil	0.0008	U	0.0008	0.005
cis-1,3-DICHLOROPROPENE	VOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
cis-1,3-DICHLOROPROPENE	VOC	Cooling Pond	94575242SD	SD-B	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
cis-1,3-DICHLOROPROPENE	VOC	Cooling Pond	94575243SD	SD-C	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
cis-1,3-DICHLOROPROPENE	VOC	Cooling Pond	94575244SD	SD-D	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
cis-1,3-DICHLOROPROPENE	VOC	Cooling Pond	94575245SD	SD-E	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
cis-1,3-DICHLOROPROPENE	VOC	Cooling Pond	94575246SD	SD-F	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
cis-1,3-DICHLOROPROPENE	VOC	Cooling Pond	94575247SD	SD-G	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
cis-1,3-DICHLOROPROPENE	VOC	Cooling Pond	94575248SD	SD-H	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
cis-1,3-DICHLOROPROPENE	VOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.01
cis-1,3-DICHLOROPROPENE	VOC	119 ft from DP	96575205SD	96-SD5	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.01
cis-1,3-DICHLOROPROPENE	VOC	147 ft from DP	96575206SD	96-SD6	----	8260	09/25/1996	Sediment	0.001	U	0.001	0.005
cis-1,3-DICHLOROPROPENE	VOC	165 ft from DP	96575208SD	96-SD8	----	8260	09/25/1996	Sediment	0.001	U	0.001	0.005
cis-1,3-DICHLOROPROPENE	VOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8260	09/25/1996	Sediment	0.001	U	0.001	0.005
cis-1,3-DICHLOROPROPENE	VOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8260	09/25/1996	Sediment	0.003	U	0.003	0.015
cis-1,3-DICHLOROPROPENE	VOC	40 ft from DP	96575202SD	96-SD2	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.01
cis-1,3-DICHLOROPROPENE	VOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.01
cis-1,3-DICHLOROPROPENE	VOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8260	09/25/1996	Sediment	0.001	U	0.001	0.005
cis-1,3-DICHLOROPROPENE	VOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8260	09/26/1996	Sediment	0.002	U	0.002	0.01
cis-1,3-DICHLOROPROPENE	VOC	Drum Accumulation Area	94575210SL	SS 8	2'	8260	10/06/1994	Soil	0.005	U		0.005
cis-1,3-DICHLOROPROPENE	VOC	Drum Accumulation Area	94575211SL	SS 7	2'	8260	10/10/1994	Soil	0.005	U		0.005
cis-1,3-DICHLOROPROPENE	VOC	Drum Accumulation Area	94575212SL	SS 6	2'	8260	10/10/1994	Soil	0.005	U		0.005
cis-1,3-DICHLOROPROPENE	VOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8260	10/10/1994	Soil	0.005	U		0.005
cis-1,3-DICHLOROPROPENE	VOC	Drum Accumulation Area	94575215SL	SS 4	2'	8260	10/10/1994	Soil	0.005	U		0.005
cis-1,3-DICHLOROPROPENE	VOC	Drum Accumulation Area	94575216SL	SS 3	2'	8260	10/10/1994	Soil	0.005	U		0.005
cis-1,3-DICHLOROPROPENE	VOC	Drum Accumulation Area	94575217SL	SS 2	2'	8260	10/10/1994	Soil	0.005	U		0.005
cis-1,3-DICHLOROPROPENE	VOC	Drum Accumulation Area	94575218SL	SS 1	2'	8260	10/10/1994	Soil	0.005	U		0.005
cis-1,3-DICHLOROPROPENE	VOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8260	11/03/1994	Soil	0.005	U		0.005
cis-1,3-DICHLOROPROPENE	VOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8260	11/03/1994	Soil	0.005	U		0.005
cis-1,3-DICHLOROPROPENE	VOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8260	11/07/1994	Soil	0.005	U		0.005
cis-1,3-DICHLOROPROPENE	VOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8260	11/09/1994	Soil	0.005	U		0.005
cis-1,3-DICHLOROPROPENE	VOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8260	11/11/1994	Soil	0.005	U		0.005
cis-1,3-DICHLOROPROPENE	VOC	965752BH01	96575225SL	AP-3785	5	8260	10/02/1996	Soil	0.001	U	0.001	0.001
cis-1,3-DICHLOROPROPENE	VOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8260	10/03/1996	Soil	0.001	U	0.001	0.001
cis-1,3-DICHLOROPROPENE	VOC	965752BH04	96575238SL	AP-3788	2.5	8260	10/03/1996	Soil	0.001	U	0.001	0.001
cis-1,3-DICHLOROPROPENE	VOC	965752BH04	96575239SL-AVG	AP-3788	5	8260	10/03/1996	Soil	0.001	U	0.001	0.001
cis-1,3-DICHLOROPROPENE	VOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8260	10/06/1994	Soil	0.005	U		0.005
cis-1,3-DICHLOROPROPENE	VOC	Drum Accumulation Area	94575203SL	SS 2	6"	8260	10/06/1994	Soil	0.005	U		0.005
cis-1,3-DICHLOROPROPENE	VOC	Drum Accumulation Area	94575204SL	SS 3	6"	8260	10/06/1994	Soil	0.005	U		0.005
cis-1,3-DICHLOROPROPENE	VOC	Drum Accumulation Area	94575205SL	SS 4	6"	8260	10/06/1994	Soil	0.005	U		0.005
cis-1,3-DICHLOROPROPENE	VOC	Drum Accumulation Area	94575206SL	SS 5	6"	8260	10/06/1994	Soil	0.005	U		0.005
cis-1,3-DICHLOROPROPENE	VOC	Drum Accumulation Area	94575207SL	SS 6	6"	8260	10/06/1994	Soil	0.005	U		0.005
cis-1,3-DICHLOROPROPENE	VOC	Drum Accumulation Area	94575208SL	SS 7	6"	8260	10/06/1994	Soil	0.005	U		0.005
cis-1,3-DICHLOROPROPENE	VOC	Drum Accumulation Area	94575209SL	SS 8	6"	8260	10/06/1994	Soil	0.005	U		0.005
cis-1,3-DICHLOROPROPENE	VOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8260	11/03/1994	Soil	0.005	U		0.005
cis-1,3-DICHLOROPROPENE	VOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8260	11/03/1994	Soil	0.005	U		0.005
cis-1,3-DICHLOROPROPENE	VOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8260	11/07/1994	Soil	0.005	U		0.005
cis-1,3-DICHLOROPROPENE	VOC	Cooling Pond	94575231SL	AP-3503	0-6'	8260	11/08/1994	Soil	0.005	U		0.005
cis-1,3-DICHLOROPROPENE	VOC	Cooling Pond	94575235SL	AP-3504	0-2'	8260	11/09/1994	Soil	0.005	U		0.005
cis-1,3-DICHLOROPROPENE	VOC	965752BH03	96575230SL	AP-3787	0	8260	10/03/1996	Soil	0.001	U	0.001	0.005
cis-1,3-DICHLOROPROPENE	VOC	965752BH04	96575236SL-AVG	AP-3788	0	8260	10/03/1996	Soil	0.001	U	0.001	0.005
COBALT	METAL	Drum Accumulation Area	94575210SL	SS 8	2'	METALS	10/06/1994	Soil	12	=		2
COBALT	METAL	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	METALS	10/06/1994	Soil	12	=		2

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
COBALT	METAL	Drum Accumulation Area	94575203SL	SS 2	6"	METALS	10/06/1994	Soil	10	=		2
COBALT	METAL	Drum Accumulation Area	94575204SL	SS 3	6"	METALS	10/06/1994	Soil	13	=		2
COBALT	METAL	Drum Accumulation Area	94575205SL	SS 4	6"	METALS	10/06/1994	Soil	11	=		2
COBALT	METAL	Drum Accumulation Area	94575206SL	SS 5	6"	METALS	10/06/1994	Soil	7	=		2
COBALT	METAL	Drum Accumulation Area	94575207SL	SS 6	6"	METALS	10/06/1994	Soil	10	=		2
COBALT	METAL	Drum Accumulation Area	94575208SL	SS 7	6"	METALS	10/06/1994	Soil	10	=		2
COBALT	METAL	Drum Accumulation Area	94575209SL	SS 8	6"	METALS	10/06/1994	Soil	12	=		2
COPPER	METAL	Drum Accumulation Area	94575210SL	SS 8	2'	METALS	10/06/1994	Soil	29	=		2
COPPER	METAL	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	METALS	10/06/1994	Soil	33.5	=		2
COPPER	METAL	Drum Accumulation Area	94575203SL	SS 2	6"	METALS	10/06/1994	Soil	28	=		2
COPPER	METAL	Drum Accumulation Area	94575204SL	SS 3	6"	METALS	10/06/1994	Soil	31	=		2
COPPER	METAL	Drum Accumulation Area	94575205SL	SS 4	6"	METALS	10/06/1994	Soil	20	=		2
COPPER	METAL	Drum Accumulation Area	94575206SL	SS 5	6"	METALS	10/06/1994	Soil	22	=		2
COPPER	METAL	Drum Accumulation Area	94575207SL	SS 6	6"	METALS	10/06/1994	Soil	24	=		2
COPPER	METAL	Drum Accumulation Area	94575208SL	SS 7	6"	METALS	10/06/1994	Soil	28	=		2
COPPER	METAL	Drum Accumulation Area	94575209SL	SS 8	6"	METALS	10/06/1994	Soil	34	=		2
CYMENE	VOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
CYMENE	VOC	Cooling Pond	94575242SD	SD-B	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
CYMENE	VOC	Cooling Pond	94575243SD	SD-C	0-6"	8260	12/08/1994	Sediment	0.04	U		0.04
CYMENE	VOC	Cooling Pond	94575244SD	SD-D	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
CYMENE	VOC	Cooling Pond	94575245SD	SD-E	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
CYMENE	VOC	Cooling Pond	94575246SD	SD-F	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
CYMENE	VOC	Cooling Pond	94575247SD	SD-G	0-6"	8260	12/08/1994	Sediment	0.04	U		0.04
CYMENE	VOC	Cooling Pond	94575248SD	SD-H	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
CYMENE	VOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.04
CYMENE	VOC	119 ft from DP	96575205SD	96-SD5	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.04
CYMENE	VOC	147 ft from DP	96575206SD	96-SD6	----	8260	09/25/1996	Sediment	0.0008	U	0.0008	0.02
CYMENE	VOC	165 ft from DP	96575208SD	96-SD8	----	8260	09/25/1996	Sediment	0.0008	U	0.0008	0.02
CYMENE	VOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8260	09/25/1996	Sediment	0.0008	U	0.0008	0.02
CYMENE	VOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8260	09/25/1996	Sediment	0.003	U	0.003	0.06
CYMENE	VOC	40 ft from DP	96575202SD	96-SD2	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.04
CYMENE	VOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.04
CYMENE	VOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8260	09/25/1996	Sediment	0.0008	U	0.0008	0.02
CYMENE	VOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8260	09/26/1996	Sediment	0.002	U	0.002	0.04
CYMENE	VOC	Drum Accumulation Area	94575210SL	SS 8	2'	8260	10/06/1994	Soil	0.02	U		0.02
CYMENE	VOC	Drum Accumulation Area	94575211SL	SS 7	2'	8260	10/10/1994	Soil	0.02	U		0.02
CYMENE	VOC	Drum Accumulation Area	94575212SL	SS 6	2'	8260	10/10/1994	Soil	0.02	U		0.02
CYMENE	VOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8260	10/10/1994	Soil	0.02	U		0.02
CYMENE	VOC	Drum Accumulation Area	94575215SL	SS 4	2'	8260	10/10/1994	Soil	0.02	U		0.02
CYMENE	VOC	Drum Accumulation Area	94575216SL	SS 3	2'	8260	10/10/1994	Soil	0.02	U		0.02
CYMENE	VOC	Drum Accumulation Area	94575217SL	SS 2	2'	8260	10/10/1994	Soil	0.02	U		0.02
CYMENE	VOC	Drum Accumulation Area	94575218SL	SS 1	2'	8260	10/10/1994	Soil	0.02	U		0.02
CYMENE	VOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8260	11/03/1994	Soil	0.02	U		0.02
CYMENE	VOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8260	11/03/1994	Soil	0.02	U		0.02
CYMENE	VOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8260	11/07/1994	Soil	0.02	U		0.02
CYMENE	VOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8260	11/09/1994	Soil	0.02	U		0.02
CYMENE	VOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8260	11/11/1994	Soil	0.02	U		0.02
CYMENE	VOC	965752BH01	96575225SL	AP-3785	5	8260	10/02/1996	Soil	0.0008	U	0.0008	0.0008
CYMENE	VOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8260	10/03/1996	Soil	0.0008	U	0.0008	0.0008
CYMENE	VOC	965752BH04	96575238SL	AP-3788	2.5	8260	10/03/1996	Soil	0.0008	U	0.0008	0.0008
CYMENE	VOC	965752BH04	96575239SL-AVG	AP-3788	5	8260	10/03/1996	Soil	0.0008	U	0.0008	0.0008
CYMENE	VOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8260	10/06/1994	Soil	0.02	U		0.02
CYMENE	VOC	Drum Accumulation Area	94575203SL	SS 2	6"	8260	10/06/1994	Soil	0.02	U		0.02
CYMENE	VOC	Drum Accumulation Area	94575204SL	SS 3	6"	8260	10/06/1994	Soil	0.02	U		0.02
CYMENE	VOC	Drum Accumulation Area	94575205SL	SS 4	6"	8260	10/06/1994	Soil	0.02	U		0.02
CYMENE	VOC	Drum Accumulation Area	94575206SL	SS 5	6"	8260	10/06/1994	Soil	0.02	U		0.02
CYMENE	VOC	Drum Accumulation Area	94575207SL	SS 6	6"	8260	10/06/1994	Soil	0.02	U		0.02
CYMENE	VOC	Drum Accumulation Area	94575208SL	SS 7	6"	8260	10/06/1994	Soil	0.02	U		0.02
CYMENE	VOC	Drum Accumulation Area	94575209SL	SS 8	6"	8260	10/06/1994	Soil	0.02	U		0.02
CYMENE	VOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8260	11/03/1994	Soil	0.02	U		0.02
CYMENE	VOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8260	11/03/1994	Soil	0.02	U		0.02
CYMENE	VOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8260	11/07/1994	Soil	0.02	U		0.02

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
CYMENE	VOC	Cooling Pond	94575231SL	AP-3503	0-6'	8260	11/08/1994	Soil	0.02	U		0.02
CYMENE	VOC	Cooling Pond	94575235SL	AP-3504	0-2'	8260	11/09/1994	Soil	0.02	U		0.02
CYMENE	VOC	965752BH03	96575230SL	AP-3787	0	8260	10/03/1996	Soil	0.0008	U	0.0008	0.02
CYMENE	VOC	965752BH04	96575236SL-AVG	AP-3788	0	8260	10/03/1996	Soil	0.0008	U	0.0008	0.02
DALAPON	SVOC	Drum Accumulation Area	94575210SL	SS 8	2'	8150	10/06/1994	Soil	1	U		1
DALAPON	SVOC	Drum Accumulation Area	94575211SL	SS 7	2'	8150	10/10/1994	Soil	1	U		1
DALAPON	SVOC	Drum Accumulation Area	94575212SL	SS 6	2'	8150	10/10/1994	Soil	1	U		1
DALAPON	SVOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8150	10/10/1994	Soil	1	U		1
DALAPON	SVOC	Drum Accumulation Area	94575215SL	SS 4	2'	8150	10/10/1994	Soil	1	U		1
DALAPON	SVOC	Drum Accumulation Area	94575216SL	SS 3	2'	8150	10/10/1994	Soil	1	U		1
DALAPON	SVOC	Drum Accumulation Area	94575217SL	SS 2	2'	8150	10/10/1994	Soil	1	U		1
DALAPON	SVOC	Drum Accumulation Area	94575218SL	SS 1	2'	8150	10/10/1994	Soil	1	U		1
DALAPON	SVOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8150	11/03/1994	Soil	1	U		1
DALAPON	SVOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8150	11/03/1994	Soil	1	U		1
DALAPON	SVOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8150	11/07/1994	Soil	2	U		2
DALAPON	SVOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8150	11/09/1994	Soil	1	U		1
DALAPON	SVOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8150	11/11/1994	Soil	1	U		1
DALAPON	SVOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8150	10/06/1994	Soil	1	U		1
DALAPON	SVOC	Drum Accumulation Area	94575203SL	SS 2	6"	8150	10/06/1994	Soil	1	U		1
DALAPON	SVOC	Drum Accumulation Area	94575204SL	SS 3	6"	8150	10/06/1994	Soil	1	U		1
DALAPON	SVOC	Drum Accumulation Area	94575205SL	SS 4	6"	8150	10/06/1994	Soil	1	U		1
DALAPON	SVOC	Drum Accumulation Area	94575206SL	SS 5	6"	8150	10/06/1994	Soil	1	U		1
DALAPON	SVOC	Drum Accumulation Area	94575207SL	SS 6	6"	8150	10/06/1994	Soil	1	U		1
DALAPON	SVOC	Drum Accumulation Area	94575208SL	SS 7	6"	8150	10/06/1994	Soil	1	U		1
DALAPON	SVOC	Drum Accumulation Area	94575209SL	SS 8	6"	8150	10/06/1994	Soil	1	U		1
DALAPON	SVOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8150	11/03/1994	Soil	1	U		1
DALAPON	SVOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8150	11/03/1994	Soil	1	U		1
DALAPON	SVOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8150	11/07/1994	Soil	1	U		1
DALAPON	SVOC	Cooling Pond	94575231SL	AP-3503	0-6'	8150	11/08/1994	Soil	1	U		1
DALAPON	SVOC	Cooling Pond	94575235SL	AP-3504	0-2'	8150	11/09/1994	Soil	1	U		1
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Cooling Pond	94575242SD	SD-B	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Cooling Pond	94575243SD	SD-C	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Cooling Pond	94575244SD	SD-D	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Cooling Pond	94575245SD	SD-E	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Cooling Pond	94575246SD	SD-F	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Cooling Pond	94575247SD	SD-G	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Cooling Pond	94575248SD	SD-H	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	PEST/PCB	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8080	09/25/1996	Sediment	0.002	U	0.002	0.02
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	PEST/PCB	119 ft from DP	96575205SD	96-SD5	----	8080	09/25/1996	Sediment	0.002	U	0.002	0.02
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	PEST/PCB	147 ft from DP	96575206SD	96-SD6	----	8080	09/25/1996	Sediment	0.0008	U	0.0008	0.01
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	PEST/PCB	165 ft from DP	96575208SD	96-SD8	----	8080	09/25/1996	Sediment	0.0008	U	0.0008	0.01
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	PEST/PCB	171 ft from DP (east side)	96575209SD	96-SD9	----	8080	09/25/1996	Sediment	0.0008	U	0.0008	0.01
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	PEST/PCB	171 ft from DP (west side)	96575207SD	96-SD7	----	8080	09/25/1996	Sediment	0.002	U	0.002	0.02
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	PEST/PCB	40 ft from DP	96575202SD	96-SD2	----	8080	09/25/1996	Sediment	0.002	U	0.002	0.02
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	PEST/PCB	79 ft from DP	96575203SD-AVG	96-SD3	----	8080	09/25/1996	Sediment	0.002	U	0.002	0.02
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Discharge pipe (DP)	96575201SD	96-SD1	----	8080	09/25/1996	Sediment	0.0008	U	0.0008	0.01
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	PEST/PCB	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8080	09/26/1996	Sediment	0.002	U	0.002	0.02
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Downstream end of 35-752 pond	975752007SD-AVG	96-SD007	0	SW8081	10/21/1997	Sediment	0.0008	U	0.0008	0.02
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Drum Accumulation Area	94575210SL	SS 8	2'	8080	10/06/1994	Soil	0.01	U		0.01
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Drum Accumulation Area	94575211SL	SS 7	2'	8080	10/10/1994	Soil	0.01	U		0.01
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Drum Accumulation Area	94575212SL	SS 6	2'	8080	10/10/1994	Soil	0.01	U		0.01
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8080	10/10/1994	Soil	0.01	U		0.01
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Drum Accumulation Area	94575215SL	SS 4	2'	8080	10/10/1994	Soil	0.01	U		0.01
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Drum Accumulation Area	94575216SL	SS 3	2'	8080	10/10/1994	Soil	0.01	U		0.01
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Drum Accumulation Area	94575217SL	SS 2	2'	8080	10/10/1994	Soil	0.01	U		0.01
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Drum Accumulation Area	94575218SL	SS 1	2'	8080	10/10/1994	Soil	0.01	U		0.01
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8080	11/03/1994	Soil	0.01	U		0.01
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8080	11/03/1994	Soil	0.01	U		0.01
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Cooling Pond	94575229SL	AP-3502	4'-6'	8080	11/07/1994	Soil	0.01	U		0.01
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8080	11/09/1994	Soil	0.01	U		0.01
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Cooling Pond	94575240SL	AP-3501	5'-7'	8080	11/11/1994	Soil	0.01	U		0.01

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	PEST/PCB	965752BH01	96575225SL	AP-3785	5	8080	10/02/1996	Soil	0.0008	U	0.0008	0.0008
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	PEST/PCB	965752BH03	96575231SL-AVG	AP-3787	2.5	8080	10/03/1996	Soil	0.0008	U	0.0008	0.0008
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	PEST/PCB	965752BH03	96575233SL	AP-3787	5	8080	10/03/1996	Soil	0.0008	U	0.0008	0.0008
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	PEST/PCB	965752BH04	96575238SL	AP-3788	2.5	8080	10/03/1996	Soil	0.0008	U	0.0008	0.0008
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	PEST/PCB	965752BH04	96575239SL-AVG	AP-3788	5	8080	10/03/1996	Soil	0.0008	U	0.0008	0.0008
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8080	10/06/1994	Soil	0.01	U		0.01
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Drum Accumulation Area	94575203SL	SS 2	6"	8080	10/06/1994	Soil	0.01	U		0.01
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Drum Accumulation Area	94575204SL	SS 3	6"	8080	10/06/1994	Soil	0.01	U		0.01
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Drum Accumulation Area	94575205SL	SS 4	6"	8080	10/06/1994	Soil	0.01	U		0.01
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Drum Accumulation Area	94575206SL	SS 5	6"	8080	10/06/1994	Soil	0.01	U		0.01
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Drum Accumulation Area	94575207SL	SS 6	6"	8080	10/06/1994	Soil	0.01	U		0.01
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Drum Accumulation Area	94575208SL	SS 7	6"	8080	10/06/1994	Soil	0.01	U		0.01
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Drum Accumulation Area	94575209SL	SS 8	6"	8080	10/06/1994	Soil	0.01	U		0.01
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8080	11/03/1994	Soil	0.01	U		0.01
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8080	11/03/1994	Soil	0.01	U		0.01
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8080	11/07/1994	Soil	0.01	U		0.01
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Cooling Pond	94575231SL	AP-3503	0-6'	8080	11/08/1994	Soil	0.01	U		0.01
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Cooling Pond	94575235SL	AP-3504	0-2'	8080	11/09/1994	Soil	0.01	U		0.01
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	PEST/PCB	965752BH03	96575230SL	AP-3787	0	8080	10/03/1996	Soil	0.0008	U	0.0008	0.01
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	PEST/PCB	965752BH04	96575236SL-AVG	AP-3788	0	8080	10/03/1996	Soil	0.0008	U	0.0008	0.01
DIBENZ(a,h)ANTHRACENE	SVOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
DIBENZ(a,h)ANTHRACENE	SVOC	Cooling Pond	94575242SD	SD-B	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
DIBENZ(a,h)ANTHRACENE	SVOC	Cooling Pond	94575243SD	SD-C	0-6"	8270	12/08/1994	Sediment	4	U		4
DIBENZ(a,h)ANTHRACENE	SVOC	Cooling Pond	94575244SD	SD-D	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
DIBENZ(a,h)ANTHRACENE	SVOC	Cooling Pond	94575245SD	SD-E	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
DIBENZ(a,h)ANTHRACENE	SVOC	Cooling Pond	94575246SD	SD-F	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
DIBENZ(a,h)ANTHRACENE	SVOC	Cooling Pond	94575247SD	SD-G	0-6"	8270	12/08/1994	Sediment	0.8	U		0.8
DIBENZ(a,h)ANTHRACENE	SVOC	Cooling Pond	94575248SD	SD-H	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
DIBENZ(a,h)ANTHRACENE	SVOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8270	09/25/1996	Sediment	0.4	U	0.4	3
DIBENZ(a,h)ANTHRACENE	SVOC	119 ft from DP	96575205SD	96-SD5	----	8270	09/25/1996	Sediment	0.09	U	0.09	0.7
DIBENZ(a,h)ANTHRACENE	SVOC	147 ft from DP	96575206SD	96-SD6	----	8270	09/25/1996	Sediment	0.04	U	0.04	0.3
DIBENZ(a,h)ANTHRACENE	SVOC	165 ft from DP	96575208SD	96-SD8	----	8270	09/25/1996	Sediment	0.04	U	0.04	0.3
DIBENZ(a,h)ANTHRACENE	SVOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8270	09/25/1996	Sediment	0.04	U	0.04	0.3
DIBENZ(a,h)ANTHRACENE	SVOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8270	09/25/1996	Sediment	0.08	U	0.08	0.7
DIBENZ(a,h)ANTHRACENE	SVOC	40 ft from DP	96575202SD	96-SD2	----	8270	09/25/1996	Sediment	0.09	U	0.09	0.7
DIBENZ(a,h)ANTHRACENE	SVOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8270	09/25/1996	Sediment	0.09	U	0.09	0.7
DIBENZ(a,h)ANTHRACENE	SVOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8270	09/25/1996	Sediment	0.04	U	0.04	0.3
DIBENZ(a,h)ANTHRACENE	SVOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8270	09/26/1996	Sediment	0.2	U	0.2	1.2
DIBENZ(a,h)ANTHRACENE	SVOC	Downstream end of 35-752 pond	975752007SD-AVG	96-SD007	0	SIM	10/21/1997	Sediment	0.0155	=	0.0005	0.005
DIBENZ(a,h)ANTHRACENE	SVOC	Drum Accumulation Area	94575210SL	SS 8	2'	8270	10/06/1994	Soil	0.3	U		0.3
DIBENZ(a,h)ANTHRACENE	SVOC	Drum Accumulation Area	94575211SL	SS 7	2'	8270	10/10/1994	Soil	0.3	U		0.3
DIBENZ(a,h)ANTHRACENE	SVOC	Drum Accumulation Area	94575212SL	SS 6	2'	8270	10/10/1994	Soil	0.3	U		0.3
DIBENZ(a,h)ANTHRACENE	SVOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8270	10/10/1994	Soil	0.5	U		0.5
DIBENZ(a,h)ANTHRACENE	SVOC	Drum Accumulation Area	94575215SL	SS 4	2'	8270	10/10/1994	Soil	0.3	U		0.3
DIBENZ(a,h)ANTHRACENE	SVOC	Drum Accumulation Area	94575216SL	SS 3	2'	8270	10/10/1994	Soil	0.3	U		0.3
DIBENZ(a,h)ANTHRACENE	SVOC	Drum Accumulation Area	94575217SL	SS 2	2'	8270	10/10/1994	Soil	0.3	U		0.3
DIBENZ(a,h)ANTHRACENE	SVOC	Drum Accumulation Area	94575218SL	SS 1	2'	8270	10/10/1994	Soil	0.3	U		0.3
DIBENZ(a,h)ANTHRACENE	SVOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8270	11/03/1994	Soil	0.3	U		0.3
DIBENZ(a,h)ANTHRACENE	SVOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8270	11/03/1994	Soil	0.3	U		0.3
DIBENZ(a,h)ANTHRACENE	SVOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8270	11/07/1994	Soil	0.3	U		0.3
DIBENZ(a,h)ANTHRACENE	SVOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8270	11/09/1994	Soil	0.3	U		0.3
DIBENZ(a,h)ANTHRACENE	SVOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8270	11/11/1994	Soil	0.3	U		0.3
DIBENZ(a,h)ANTHRACENE	SVOC	965752BH01	96575225SL	AP-3785	5	8270	10/02/1996	Soil	0.04	U	0.04	0.04
DIBENZ(a,h)ANTHRACENE	SVOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8270	10/03/1996	Soil	0.08	U	0.08	0.08
DIBENZ(a,h)ANTHRACENE	SVOC	965752BH03	96575233SL	AP-3787	5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
DIBENZ(a,h)ANTHRACENE	SVOC	965752BH04	96575238SL	AP-3788	2.5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
DIBENZ(a,h)ANTHRACENE	SVOC	965752BH04	96575239SL-AVG	AP-3788	5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
DIBENZ(a,h)ANTHRACENE	SVOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8270	10/06/1994	Soil	0.3	U		0.3
DIBENZ(a,h)ANTHRACENE	SVOC	Drum Accumulation Area	94575203SL	SS 2	6"	8270	10/06/1994	Soil	0.3	U		0.3
DIBENZ(a,h)ANTHRACENE	SVOC	Drum Accumulation Area	94575204SL	SS 3	6"	8270	10/06/1994	Soil	0.3	U		0.3
DIBENZ(a,h)ANTHRACENE	SVOC	Drum Accumulation Area	94575205SL	SS 4	6"	8270	10/06/1994	Soil	0.3	U		0.3
DIBENZ(a,h)ANTHRACENE	SVOC	Drum Accumulation Area	94575206SL	SS 5	6"	8270	10/06/1994	Soil	0.3	U		0.3

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
DIBENZ(a,h)ANTHRACENE	SVOC	Drum Accumulation Area	94575207SL	SS 6	6"	8270	10/06/1994	Soil	0.3	U		0.3
DIBENZ(a,h)ANTHRACENE	SVOC	Drum Accumulation Area	94575208SL	SS 7	6"	8270	10/06/1994	Soil	0.3	U		0.3
DIBENZ(a,h)ANTHRACENE	SVOC	Drum Accumulation Area	94575209SL	SS 8	6"	8270	10/06/1994	Soil	0.3	U		0.3
DIBENZ(a,h)ANTHRACENE	SVOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8270	11/03/1994	Soil	0.6	U		0.6
DIBENZ(a,h)ANTHRACENE	SVOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8270	11/03/1994	Soil	0.6	U		0.6
DIBENZ(a,h)ANTHRACENE	SVOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8270	11/07/1994	Soil	0.3	U		0.3
DIBENZ(a,h)ANTHRACENE	SVOC	Cooling Pond	94575231SL	AP-3503	0-6'	8270	11/08/1994	Soil	0.3	U		0.3
DIBENZ(a,h)ANTHRACENE	SVOC	Cooling Pond	94575235SL	AP-3504	0-2'	8270	11/09/1994	Soil	0.3	U		0.3
DIBENZ(a,h)ANTHRACENE	SVOC	965752BH03	96575230SL	AP-3787	0	8270	10/03/1996	Soil	0.04	U	0.04	0.3
DIBENZ(a,h)ANTHRACENE	SVOC	965752BH04	96575236SL-AVG	AP-3788	0	8270	10/03/1996	Soil	0.04	U	0.04	0.3
DIBENZOFURAN	SVOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
DIBENZOFURAN	SVOC	Cooling Pond	94575242SD	SD-B	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
DIBENZOFURAN	SVOC	Cooling Pond	94575243SD	SD-C	0-6"	8270	12/08/1994	Sediment	4	U		4
DIBENZOFURAN	SVOC	Cooling Pond	94575244SD	SD-D	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
DIBENZOFURAN	SVOC	Cooling Pond	94575245SD	SD-E	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
DIBENZOFURAN	SVOC	Cooling Pond	94575246SD	SD-F	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
DIBENZOFURAN	SVOC	Cooling Pond	94575247SD	SD-G	0-6"	8270	12/08/1994	Sediment	0.8	U		0.8
DIBENZOFURAN	SVOC	Cooling Pond	94575248SD	SD-H	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
DIBENZOFURAN	SVOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8270	09/25/1996	Sediment	0.5	U	0.5	3
DIBENZOFURAN	SVOC	119 ft from DP	96575205SD	96-SD5	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7
DIBENZOFURAN	SVOC	147 ft from DP	96575206SD	96-SD6	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
DIBENZOFURAN	SVOC	165 ft from DP	96575208SD	96-SD8	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
DIBENZOFURAN	SVOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
DIBENZOFURAN	SVOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8270	09/25/1996	Sediment	0.1	U	0.1	0.7
DIBENZOFURAN	SVOC	40 ft from DP	96575202SD	96-SD2	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7
DIBENZOFURAN	SVOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7
DIBENZOFURAN	SVOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
DIBENZOFURAN	SVOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8270	09/26/1996	Sediment	0.2	U	0.2	1.2
DIBENZOFURAN	SVOC	Downstream end of 35-752 pond	975752007SD-AVG	96-SD007	0	SIM	10/21/1997	Sediment	0.027	=	0.0005	0.005
DIBENZOFURAN	SVOC	Drum Accumulation Area	94575210SL	SS 8	2'	8270	10/06/1994	Soil	0.3	U		0.3
DIBENZOFURAN	SVOC	Drum Accumulation Area	94575211SL	SS 7	2'	8270	10/10/1994	Soil	0.3	U		0.3
DIBENZOFURAN	SVOC	Drum Accumulation Area	94575212SL	SS 6	2'	8270	10/10/1994	Soil	0.3	U		0.3
DIBENZOFURAN	SVOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8270	10/10/1994	Soil	0.5	U		0.5
DIBENZOFURAN	SVOC	Drum Accumulation Area	94575215SL	SS 4	2'	8270	10/10/1994	Soil	0.3	U		0.3
DIBENZOFURAN	SVOC	Drum Accumulation Area	94575216SL	SS 3	2'	8270	10/10/1994	Soil	0.3	U		0.3
DIBENZOFURAN	SVOC	Drum Accumulation Area	94575217SL	SS 2	2'	8270	10/10/1994	Soil	0.3	U		0.3
DIBENZOFURAN	SVOC	Drum Accumulation Area	94575218SL	SS 1	2'	8270	10/10/1994	Soil	0.3	U		0.3
DIBENZOFURAN	SVOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8270	11/03/1994	Soil	0.3	U		0.3
DIBENZOFURAN	SVOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8270	11/03/1994	Soil	0.3	U		0.3
DIBENZOFURAN	SVOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8270	11/07/1994	Soil	0.3	U		0.3
DIBENZOFURAN	SVOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8270	11/09/1994	Soil	0.3	U		0.3
DIBENZOFURAN	SVOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8270	11/11/1994	Soil	0.3	U		0.3
DIBENZOFURAN	SVOC	965752BH01	96575225SL	AP-3785	5	8270	10/02/1996	Soil	0.05	U	0.05	0.05
DIBENZOFURAN	SVOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8270	10/03/1996	Soil	0.1	U	0.1	0.1
DIBENZOFURAN	SVOC	965752BH03	96575233SL	AP-3787	5	8270	10/03/1996	Soil	0.05	U	0.05	0.05
DIBENZOFURAN	SVOC	965752BH04	96575238SL	AP-3788	2.5	8270	10/03/1996	Soil	0.05	U	0.05	0.05
DIBENZOFURAN	SVOC	965752BH04	96575239SL-AVG	AP-3788	5	8270	10/03/1996	Soil	0.05	U	0.05	0.05
DIBENZOFURAN	SVOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8270	10/06/1994	Soil	0.3	U		0.3
DIBENZOFURAN	SVOC	Drum Accumulation Area	94575203SL	SS 2	6"	8270	10/06/1994	Soil	0.3	U		0.3
DIBENZOFURAN	SVOC	Drum Accumulation Area	94575204SL	SS 3	6"	8270	10/06/1994	Soil	0.3	U		0.3
DIBENZOFURAN	SVOC	Drum Accumulation Area	94575205SL	SS 4	6"	8270	10/06/1994	Soil	0.3	U		0.3
DIBENZOFURAN	SVOC	Drum Accumulation Area	94575206SL	SS 5	6"	8270	10/06/1994	Soil	0.3	U		0.3
DIBENZOFURAN	SVOC	Drum Accumulation Area	94575207SL	SS 6	6"	8270	10/06/1994	Soil	0.3	U		0.3
DIBENZOFURAN	SVOC	Drum Accumulation Area	94575208SL	SS 7	6"	8270	10/06/1994	Soil	0.3	U		0.3
DIBENZOFURAN	SVOC	Drum Accumulation Area	94575209SL	SS 8	6"	8270	10/06/1994	Soil	0.3	U		0.3
DIBENZOFURAN	SVOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8270	11/03/1994	Soil	0.6	U		0.6
DIBENZOFURAN	SVOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8270	11/03/1994	Soil	0.6	U		0.6
DIBENZOFURAN	SVOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8270	11/07/1994	Soil	0.3	U		0.3
DIBENZOFURAN	SVOC	Cooling Pond	94575231SL	AP-3503	0-6'	8270	11/08/1994	Soil	0.3	U		0.3
DIBENZOFURAN	SVOC	Cooling Pond	94575235SL	AP-3504	0-2'	8270	11/09/1994	Soil	0.3	U		0.3
DIBENZOFURAN	SVOC	965752BH03	96575230SL	AP-3787	0	8270	10/03/1996	Soil	0.05	U	0.05	0.3
DIBENZOFURAN	SVOC	965752BH04	96575236SL-AVG	AP-3788	0	8270	10/03/1996	Soil	0.05	U	0.05	0.3

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
DIBROMOCHLOROMETHANE	VOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
DIBROMOCHLOROMETHANE	VOC	Cooling Pond	94575242SD	SD-B	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
DIBROMOCHLOROMETHANE	VOC	Cooling Pond	94575243SD	SD-C	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
DIBROMOCHLOROMETHANE	VOC	Cooling Pond	94575244SD	SD-D	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
DIBROMOCHLOROMETHANE	VOC	Cooling Pond	94575245SD	SD-E	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
DIBROMOCHLOROMETHANE	VOC	Cooling Pond	94575246SD	SD-F	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
DIBROMOCHLOROMETHANE	VOC	Cooling Pond	94575247SD	SD-G	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
DIBROMOCHLOROMETHANE	VOC	Cooling Pond	94575248SD	SD-H	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
DIBROMOCHLOROMETHANE	VOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
DIBROMOCHLOROMETHANE	VOC	119 ft from DP	96575205SD	96-SD5	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
DIBROMOCHLOROMETHANE	VOC	147 ft from DP	96575206SD	96-SD6	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
DIBROMOCHLOROMETHANE	VOC	165 ft from DP	96575208SD	96-SD8	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
DIBROMOCHLOROMETHANE	VOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
DIBROMOCHLOROMETHANE	VOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8260	09/25/1996	Sediment	0.006	U	0.006	0.015
DIBROMOCHLOROMETHANE	VOC	40 ft from DP	96575202SD	96-SD2	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
DIBROMOCHLOROMETHANE	VOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
DIBROMOCHLOROMETHANE	VOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
DIBROMOCHLOROMETHANE	VOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8260	09/26/1996	Sediment	0.004	U	0.004	0.01
DIBROMOCHLOROMETHANE	VOC	Drum Accumulation Area	94575210SL	SS 8	2'	8260	10/06/1994	Soil	0.005	U		0.005
DIBROMOCHLOROMETHANE	VOC	Drum Accumulation Area	94575211SL	SS 7	2'	8260	10/10/1994	Soil	0.005	U		0.005
DIBROMOCHLOROMETHANE	VOC	Drum Accumulation Area	94575212SL	SS 6	2'	8260	10/10/1994	Soil	0.005	U		0.005
DIBROMOCHLOROMETHANE	VOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8260	10/10/1994	Soil	0.005	U		0.005
DIBROMOCHLOROMETHANE	VOC	Drum Accumulation Area	94575215SL	SS 4	2'	8260	10/10/1994	Soil	0.005	U		0.005
DIBROMOCHLOROMETHANE	VOC	Drum Accumulation Area	94575216SL	SS 3	2'	8260	10/10/1994	Soil	0.005	U		0.005
DIBROMOCHLOROMETHANE	VOC	Drum Accumulation Area	94575217SL	SS 2	2'	8260	10/10/1994	Soil	0.005	U		0.005
DIBROMOCHLOROMETHANE	VOC	Drum Accumulation Area	94575218SL	SS 1	2'	8260	10/10/1994	Soil	0.005	U		0.005
DIBROMOCHLOROMETHANE	VOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8260	11/03/1994	Soil	0.005	U		0.005
DIBROMOCHLOROMETHANE	VOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8260	11/03/1994	Soil	0.005	U		0.005
DIBROMOCHLOROMETHANE	VOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8260	11/07/1994	Soil	0.005	U		0.005
DIBROMOCHLOROMETHANE	VOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8260	11/09/1994	Soil	0.005	U		0.005
DIBROMOCHLOROMETHANE	VOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8260	11/11/1994	Soil	0.005	U		0.005
DIBROMOCHLOROMETHANE	VOC	965752BH01	96575225SL	AP-3785	5	8260	10/02/1996	Soil	0.002	U	0.002	0.002
DIBROMOCHLOROMETHANE	VOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
DIBROMOCHLOROMETHANE	VOC	965752BH04	96575238SL	AP-3788	2.5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
DIBROMOCHLOROMETHANE	VOC	965752BH04	96575239SL-AVG	AP-3788	5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
DIBROMOCHLOROMETHANE	VOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8260	10/06/1994	Soil	0.005	U		0.005
DIBROMOCHLOROMETHANE	VOC	Drum Accumulation Area	94575203SL	SS 2	6"	8260	10/06/1994	Soil	0.005	U		0.005
DIBROMOCHLOROMETHANE	VOC	Drum Accumulation Area	94575204SL	SS 3	6"	8260	10/06/1994	Soil	0.005	U		0.005
DIBROMOCHLOROMETHANE	VOC	Drum Accumulation Area	94575205SL	SS 4	6"	8260	10/06/1994	Soil	0.005	U		0.005
DIBROMOCHLOROMETHANE	VOC	Drum Accumulation Area	94575206SL	SS 5	6"	8260	10/06/1994	Soil	0.005	U		0.005
DIBROMOCHLOROMETHANE	VOC	Drum Accumulation Area	94575207SL	SS 6	6"	8260	10/06/1994	Soil	0.005	U		0.005
DIBROMOCHLOROMETHANE	VOC	Drum Accumulation Area	94575208SL	SS 7	6"	8260	10/06/1994	Soil	0.005	U		0.005
DIBROMOCHLOROMETHANE	VOC	Drum Accumulation Area	94575209SL	SS 8	6"	8260	10/06/1994	Soil	0.005	U		0.005
DIBROMOCHLOROMETHANE	VOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8260	11/03/1994	Soil	0.005	U		0.005
DIBROMOCHLOROMETHANE	VOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8260	11/03/1994	Soil	0.005	U		0.005
DIBROMOCHLOROMETHANE	VOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8260	11/07/1994	Soil	0.005	U		0.005
DIBROMOCHLOROMETHANE	VOC	Cooling Pond	94575231SL	AP-3503	0-6'	8260	11/08/1994	Soil	0.005	U		0.005
DIBROMOCHLOROMETHANE	VOC	Cooling Pond	94575235SL	AP-3504	0-2'	8260	11/09/1994	Soil	0.005	U		0.005
DIBROMOCHLOROMETHANE	VOC	965752BH03	96575230SL	AP-3787	0	8260	10/03/1996	Soil	0.002	U	0.002	0.005
DIBROMOCHLOROMETHANE	VOC	965752BH04	96575236SL-AVG	AP-3788	0	8260	10/03/1996	Soil	0.002	U	0.002	0.005
DIBROMOMETHANE	VOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
DIBROMOMETHANE	VOC	Cooling Pond	94575242SD	SD-B	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
DIBROMOMETHANE	VOC	Cooling Pond	94575243SD	SD-C	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
DIBROMOMETHANE	VOC	Cooling Pond	94575244SD	SD-D	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
DIBROMOMETHANE	VOC	Cooling Pond	94575245SD	SD-E	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
DIBROMOMETHANE	VOC	Cooling Pond	94575246SD	SD-F	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
DIBROMOMETHANE	VOC	Cooling Pond	94575247SD	SD-G	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
DIBROMOMETHANE	VOC	Cooling Pond	94575248SD	SD-H	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
DIBROMOMETHANE	VOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
DIBROMOMETHANE	VOC	119 ft from DP	96575205SD	96-SD5	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
DIBROMOMETHANE	VOC	147 ft from DP	96575206SD	96-SD6	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
DIBROMOMETHANE	VOC	165 ft from DP	96575208SD	96-SD8	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
DIBROMOMETHANE	VOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
DIBROMOMETHANE	VOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8260	09/25/1996	Sediment	0.006	U	0.006	0.015
DIBROMOMETHANE	VOC	40 ft from DP	96575202SD	96-SD2	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
DIBROMOMETHANE	VOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
DIBROMOMETHANE	VOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
DIBROMOMETHANE	VOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8260	09/26/1996	Sediment	0.004	U	0.004	0.01
DIBROMOMETHANE	VOC	Drum Accumulation Area	94575210SL	SS 8	2'	8260	10/06/1994	Soil	0.005	U		0.005
DIBROMOMETHANE	VOC	Drum Accumulation Area	94575211SL	SS 7	2'	8260	10/10/1994	Soil	0.005	U		0.005
DIBROMOMETHANE	VOC	Drum Accumulation Area	94575212SL	SS 6	2'	8260	10/10/1994	Soil	0.005	U		0.005
DIBROMOMETHANE	VOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8260	10/10/1994	Soil	0.005	U		0.005
DIBROMOMETHANE	VOC	Drum Accumulation Area	94575215SL	SS 4	2'	8260	10/10/1994	Soil	0.005	U		0.005
DIBROMOMETHANE	VOC	Drum Accumulation Area	94575216SL	SS 3	2'	8260	10/10/1994	Soil	0.005	U		0.005
DIBROMOMETHANE	VOC	Drum Accumulation Area	94575217SL	SS 2	2'	8260	10/10/1994	Soil	0.005	U		0.005
DIBROMOMETHANE	VOC	Drum Accumulation Area	94575218SL	SS 1	2'	8260	10/10/1994	Soil	0.005	U		0.005
DIBROMOMETHANE	VOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8260	11/03/1994	Soil	0.005	U		0.005
DIBROMOMETHANE	VOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8260	11/03/1994	Soil	0.005	U		0.005
DIBROMOMETHANE	VOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8260	11/07/1994	Soil	0.005	U		0.005
DIBROMOMETHANE	VOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8260	11/09/1994	Soil	0.005	U		0.005
DIBROMOMETHANE	VOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8260	11/11/1994	Soil	0.005	U		0.005
DIBROMOMETHANE	VOC	965752BH01	96575225SL	AP-3785	5	8260	10/02/1996	Soil	0.002	U	0.002	0.002
DIBROMOMETHANE	VOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
DIBROMOMETHANE	VOC	965752BH04	96575238SL	AP-3788	2.5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
DIBROMOMETHANE	VOC	965752BH04	96575239SL-AVG	AP-3788	5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
DIBROMOMETHANE	VOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8260	10/06/1994	Soil	0.005	U		0.005
DIBROMOMETHANE	VOC	Drum Accumulation Area	94575203SL	SS 2	6"	8260	10/06/1994	Soil	0.005	U		0.005
DIBROMOMETHANE	VOC	Drum Accumulation Area	94575204SL	SS 3	6"	8260	10/06/1994	Soil	0.005	U		0.005
DIBROMOMETHANE	VOC	Drum Accumulation Area	94575205SL	SS 4	6"	8260	10/06/1994	Soil	0.005	U		0.005
DIBROMOMETHANE	VOC	Drum Accumulation Area	94575206SL	SS 5	6"	8260	10/06/1994	Soil	0.005	U		0.005
DIBROMOMETHANE	VOC	Drum Accumulation Area	94575207SL	SS 6	6"	8260	10/06/1994	Soil	0.005	U		0.005
DIBROMOMETHANE	VOC	Drum Accumulation Area	94575208SL	SS 7	6"	8260	10/06/1994	Soil	0.005	U		0.005
DIBROMOMETHANE	VOC	Drum Accumulation Area	94575209SL	SS 8	6"	8260	10/06/1994	Soil	0.005	U		0.005
DIBROMOMETHANE	VOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8260	11/03/1994	Soil	0.005	U		0.005
DIBROMOMETHANE	VOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8260	11/03/1994	Soil	0.005	U		0.005
DIBROMOMETHANE	VOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8260	11/07/1994	Soil	0.005	U		0.005
DIBROMOMETHANE	VOC	Cooling Pond	94575231SL	AP-3503	0-6'	8260	11/08/1994	Soil	0.005	U		0.005
DIBROMOMETHANE	VOC	Cooling Pond	94575235SL	AP-3504	0-2'	8260	11/09/1994	Soil	0.005	U		0.005
DIBROMOMETHANE	VOC	965752BH03	96575230SL	AP-3787	0	8260	10/03/1996	Soil	0.002	U	0.002	0.005
DIBROMOMETHANE	VOC	965752BH04	96575236SL-AVG	AP-3788	0	8260	10/03/1996	Soil	0.002	U	0.002	0.005
DICAMBA	SVOC	Drum Accumulation Area	94575210SL	SS 8	2'	8150	10/06/1994	Soil	0.1	U		0.1
DICAMBA	SVOC	Drum Accumulation Area	94575211SL	SS 7	2'	8150	10/10/1994	Soil	0.1	U		0.1
DICAMBA	SVOC	Drum Accumulation Area	94575212SL	SS 6	2'	8150	10/10/1994	Soil	0.1	U		0.1
DICAMBA	SVOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8150	10/10/1994	Soil	0.1	U		0.1
DICAMBA	SVOC	Drum Accumulation Area	94575215SL	SS 4	2'	8150	10/10/1994	Soil	0.1	U		0.1
DICAMBA	SVOC	Drum Accumulation Area	94575216SL	SS 3	2'	8150	10/10/1994	Soil	0.1	U		0.1
DICAMBA	SVOC	Drum Accumulation Area	94575217SL	SS 2	2'	8150	10/10/1994	Soil	0.1	U		0.1
DICAMBA	SVOC	Drum Accumulation Area	94575218SL	SS 1	2'	8150	10/10/1994	Soil	0.1	U		0.1
DICAMBA	SVOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8150	11/03/1994	Soil	0.1	U		0.1
DICAMBA	SVOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8150	11/03/1994	Soil	0.1	U		0.1
DICAMBA	SVOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8150	11/07/1994	Soil	0.1	U		0.1
DICAMBA	SVOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8150	11/09/1994	Soil	0.1	U		0.1
DICAMBA	SVOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8150	11/11/1994	Soil	0.1	U		0.1
DICAMBA	SVOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8150	10/06/1994	Soil	0.1	U		0.1
DICAMBA	SVOC	Drum Accumulation Area	94575203SL	SS 2	6"	8150	10/06/1994	Soil	0.1	U		0.1
DICAMBA	SVOC	Drum Accumulation Area	94575204SL	SS 3	6"	8150	10/06/1994	Soil	0.1	U		0.1
DICAMBA	SVOC	Drum Accumulation Area	94575205SL	SS 4	6"	8150	10/06/1994	Soil	0.1	U		0.1
DICAMBA	SVOC	Drum Accumulation Area	94575206SL	SS 5	6"	8150	10/06/1994	Soil	0.1	U		0.1
DICAMBA	SVOC	Drum Accumulation Area	94575207SL	SS 6	6"	8150	10/06/1994	Soil	0.1	U		0.1
DICAMBA	SVOC	Drum Accumulation Area	94575208SL	SS 7	6"	8150	10/06/1994	Soil	0.1	U		0.1
DICAMBA	SVOC	Drum Accumulation Area	94575209SL	SS 8	6"	8150	10/06/1994	Soil	0.1	U		0.1
DICAMBA	SVOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8150	11/03/1994	Soil	0.1	U		0.1
DICAMBA	SVOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8150	11/03/1994	Soil	0.1	U		0.1
DICAMBA	SVOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8150	11/07/1994	Soil	0.1	U		0.1

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
DICAMBA	SVOC	Cooling Pond	94575231SL	AP-3503	0-6'	8150	11/08/1994	Soil	0.1	U		0.1
DICAMBA	SVOC	Cooling Pond	94575235SL	AP-3504	0-2'	8150	11/09/1994	Soil	0.1	U		0.1
DICHLORODIFLUOROMETHANE	VOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
DICHLORODIFLUOROMETHANE	VOC	Cooling Pond	94575242SD	SD-B	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
DICHLORODIFLUOROMETHANE	VOC	Cooling Pond	94575243SD	SD-C	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
DICHLORODIFLUOROMETHANE	VOC	Cooling Pond	94575244SD	SD-D	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
DICHLORODIFLUOROMETHANE	VOC	Cooling Pond	94575245SD	SD-E	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
DICHLORODIFLUOROMETHANE	VOC	Cooling Pond	94575246SD	SD-F	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
DICHLORODIFLUOROMETHANE	VOC	Cooling Pond	94575247SD	SD-G	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
DICHLORODIFLUOROMETHANE	VOC	Cooling Pond	94575248SD	SD-H	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
DICHLORODIFLUOROMETHANE	VOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.01
DICHLORODIFLUOROMETHANE	VOC	119 ft from DP	96575205SD	96-SD5	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.01
DICHLORODIFLUOROMETHANE	VOC	147 ft from DP	96575206SD	96-SD6	----	8260	09/25/1996	Sediment	0.0009	U	0.0009	0.005
DICHLORODIFLUOROMETHANE	VOC	165 ft from DP	96575208SD	96-SD8	----	8260	09/25/1996	Sediment	0.0009	U	0.0009	0.005
DICHLORODIFLUOROMETHANE	VOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8260	09/25/1996	Sediment	0.0009	U	0.0009	0.005
DICHLORODIFLUOROMETHANE	VOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8260	09/25/1996	Sediment	0.003	U	0.003	0.015
DICHLORODIFLUOROMETHANE	VOC	40 ft from DP	96575202SD	96-SD2	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.01
DICHLORODIFLUOROMETHANE	VOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.01
DICHLORODIFLUOROMETHANE	VOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8260	09/25/1996	Sediment	0.0009	U	0.0009	0.005
DICHLORODIFLUOROMETHANE	VOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8260	09/26/1996	Sediment	0.002	U	0.002	0.01
DICHLORODIFLUOROMETHANE	VOC	Drum Accumulation Area	94575210SL	SS 8	2'	8260	10/06/1994	Soil	0.005	U		0.005
DICHLORODIFLUOROMETHANE	VOC	Drum Accumulation Area	94575211SL	SS 7	2'	8260	10/10/1994	Soil	0.005	U		0.005
DICHLORODIFLUOROMETHANE	VOC	Drum Accumulation Area	94575212SL	SS 6	2'	8260	10/10/1994	Soil	0.005	U		0.005
DICHLORODIFLUOROMETHANE	VOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8260	10/10/1994	Soil	0.005	U		0.005
DICHLORODIFLUOROMETHANE	VOC	Drum Accumulation Area	94575215SL	SS 4	2'	8260	10/10/1994	Soil	0.005	U		0.005
DICHLORODIFLUOROMETHANE	VOC	Drum Accumulation Area	94575216SL	SS 3	2'	8260	10/10/1994	Soil	0.005	U		0.005
DICHLORODIFLUOROMETHANE	VOC	Drum Accumulation Area	94575217SL	SS 2	2'	8260	10/10/1994	Soil	0.005	U		0.005
DICHLORODIFLUOROMETHANE	VOC	Drum Accumulation Area	94575218SL	SS 1	2'	8260	10/10/1994	Soil	0.005	U		0.005
DICHLORODIFLUOROMETHANE	VOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8260	11/03/1994	Soil	0.005	U		0.005
DICHLORODIFLUOROMETHANE	VOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8260	11/03/1994	Soil	0.005	U		0.005
DICHLORODIFLUOROMETHANE	VOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8260	11/07/1994	Soil	0.005	U		0.005
DICHLORODIFLUOROMETHANE	VOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8260	11/09/1994	Soil	0.005	U		0.005
DICHLORODIFLUOROMETHANE	VOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8260	11/11/1994	Soil	0.005	U		0.005
DICHLORODIFLUOROMETHANE	VOC	965752BH01	96575225SL	AP-3785	5	8260	10/02/1996	Soil	0.0009	U	0.0009	0.0009
DICHLORODIFLUOROMETHANE	VOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8260	10/03/1996	Soil	0.0009	U	0.0009	0.0009
DICHLORODIFLUOROMETHANE	VOC	965752BH04	96575238SL	AP-3788	2.5	8260	10/03/1996	Soil	0.0009	U	0.0009	0.0009
DICHLORODIFLUOROMETHANE	VOC	965752BH04	96575239SL-AVG	AP-3788	5	8260	10/03/1996	Soil	0.0009	U	0.0009	0.0009
DICHLORODIFLUOROMETHANE	VOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8260	10/06/1994	Soil	0.005	U		0.005
DICHLORODIFLUOROMETHANE	VOC	Drum Accumulation Area	94575203SL	SS 2	6"	8260	10/06/1994	Soil	0.005	U		0.005
DICHLORODIFLUOROMETHANE	VOC	Drum Accumulation Area	94575204SL	SS 3	6"	8260	10/06/1994	Soil	0.005	U		0.005
DICHLORODIFLUOROMETHANE	VOC	Drum Accumulation Area	94575205SL	SS 4	6"	8260	10/06/1994	Soil	0.005	U		0.005
DICHLORODIFLUOROMETHANE	VOC	Drum Accumulation Area	94575206SL	SS 5	6"	8260	10/06/1994	Soil	0.005	U		0.005
DICHLORODIFLUOROMETHANE	VOC	Drum Accumulation Area	94575207SL	SS 6	6"	8260	10/06/1994	Soil	0.005	U		0.005
DICHLORODIFLUOROMETHANE	VOC	Drum Accumulation Area	94575208SL	SS 7	6"	8260	10/06/1994	Soil	0.005	U		0.005
DICHLORODIFLUOROMETHANE	VOC	Drum Accumulation Area	94575209SL	SS 8	6"	8260	10/06/1994	Soil	0.005	U		0.005
DICHLORODIFLUOROMETHANE	VOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8260	11/03/1994	Soil	0.005	U		0.005
DICHLORODIFLUOROMETHANE	VOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8260	11/03/1994	Soil	0.005	U		0.005
DICHLORODIFLUOROMETHANE	VOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8260	11/07/1994	Soil	0.005	U		0.005
DICHLORODIFLUOROMETHANE	VOC	Cooling Pond	94575231SL	AP-3503	0-6'	8260	11/08/1994	Soil	0.005	U		0.005
DICHLORODIFLUOROMETHANE	VOC	Cooling Pond	94575235SL	AP-3504	0-2'	8260	11/09/1994	Soil	0.005	U		0.005
DICHLORODIFLUOROMETHANE	VOC	965752BH03	96575230SL	AP-3787	0	8260	10/03/1996	Soil	0.0009	U	0.0009	0.005
DICHLORODIFLUOROMETHANE	VOC	965752BH04	96575236SL-AVG	AP-3788	0	8260	10/03/1996	Soil	0.0009	U	0.0009	0.005
DICHLOROPROP	SVOC	Drum Accumulation Area	94575210SL	SS 8	2'	8150	10/06/1994	Soil	0.1	U		0.1
DICHLOROPROP	SVOC	Drum Accumulation Area	94575211SL	SS 7	2'	8150	10/10/1994	Soil	0.1	U		0.1
DICHLOROPROP	SVOC	Drum Accumulation Area	94575212SL	SS 6	2'	8150	10/10/1994	Soil	0.1	U		0.1
DICHLOROPROP	SVOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8150	10/10/1994	Soil	0.1	U		0.1
DICHLOROPROP	SVOC	Drum Accumulation Area	94575215SL	SS 4	2'	8150	10/10/1994	Soil	0.1	U		0.1
DICHLOROPROP	SVOC	Drum Accumulation Area	94575216SL	SS 3	2'	8150	10/10/1994	Soil	0.1	U		0.1
DICHLOROPROP	SVOC	Drum Accumulation Area	94575217SL	SS 2	2'	8150	10/10/1994	Soil	0.1	U		0.1
DICHLOROPROP	SVOC	Drum Accumulation Area	94575218SL	SS 1	2'	8150	10/10/1994	Soil	0.1	U		0.1
DICHLOROPROP	SVOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8150	11/03/1994	Soil	0.1	U		0.1
DICHLOROPROP	SVOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8150	11/03/1994	Soil	0.1	U		0.1

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Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
DICHLOROPROP	SVOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8150	11/07/1994	Soil	0.1	U		0.1
DICHLOROPROP	SVOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8150	11/09/1994	Soil	0.1	U		0.1
DICHLOROPROP	SVOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8150	11/11/1994	Soil	0.1	U		0.1
DICHLOROPROP	SVOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8150	10/06/1994	Soil	0.1	U		0.1
DICHLOROPROP	SVOC	Drum Accumulation Area	94575203SL	SS 2	6"	8150	10/06/1994	Soil	0.1	U		0.1
DICHLOROPROP	SVOC	Drum Accumulation Area	94575204SL	SS 3	6"	8150	10/06/1994	Soil	0.1	U		0.1
DICHLOROPROP	SVOC	Drum Accumulation Area	94575205SL	SS 4	6"	8150	10/06/1994	Soil	0.1	U		0.1
DICHLOROPROP	SVOC	Drum Accumulation Area	94575206SL	SS 5	6"	8150	10/06/1994	Soil	0.1	U		0.1
DICHLOROPROP	SVOC	Drum Accumulation Area	94575207SL	SS 6	6"	8150	10/06/1994	Soil	0.1	U		0.1
DICHLOROPROP	SVOC	Drum Accumulation Area	94575208SL	SS 7	6"	8150	10/06/1994	Soil	0.1	U		0.1
DICHLOROPROP	SVOC	Drum Accumulation Area	94575209SL	SS 8	6"	8150	10/06/1994	Soil	0.1	U		0.1
DICHLOROPROP	SVOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8150	11/03/1994	Soil	0.1	U		0.1
DICHLOROPROP	SVOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8150	11/03/1994	Soil	0.1	U		0.1
DICHLOROPROP	SVOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8150	11/07/1994	Soil	0.1	U		0.1
DICHLOROPROP	SVOC	Cooling Pond	94575231SL	AP-3503	0-6'	8150	11/08/1994	Soil	0.1	U		0.1
DICHLOROPROP	SVOC	Cooling Pond	94575235SL	AP-3504	0-2'	8150	11/09/1994	Soil	0.1	U		0.1
DIELDRIN	PEST/PCB	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
DIELDRIN	PEST/PCB	Cooling Pond	94575242SD	SD-B	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
DIELDRIN	PEST/PCB	Cooling Pond	94575243SD	SD-C	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
DIELDRIN	PEST/PCB	Cooling Pond	94575244SD	SD-D	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
DIELDRIN	PEST/PCB	Cooling Pond	94575245SD	SD-E	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
DIELDRIN	PEST/PCB	Cooling Pond	94575246SD	SD-F	0-6"	8080	12/08/1994	Sediment	0.1	U		0.1
DIELDRIN	PEST/PCB	Cooling Pond	94575247SD	SD-G	0-6"	8080	12/08/1994	Sediment	0.08	U		0.08
DIELDRIN	PEST/PCB	Cooling Pond	94575248SD	SD-H	0-6"	8080	12/08/1994	Sediment	0.05	U		0.05
DIELDRIN	PEST/PCB	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8080	09/25/1996	Sediment	0.0006	U	0.0006	0.02
DIELDRIN	PEST/PCB	119 ft from DP	96575205SD	96-SD5	----	8080	09/25/1996	Sediment	0.007	JB	0.0006	0.02
DIELDRIN	PEST/PCB	147 ft from DP	96575206SD	96-SD6	----	8080	09/25/1996	Sediment	0.005	JB	0.0003	0.01
DIELDRIN	PEST/PCB	165 ft from DP	96575208SD	96-SD8	----	8080	09/25/1996	Sediment	0.0003	U	0.0003	0.01
DIELDRIN	PEST/PCB	171 ft from DP (east side)	96575209SD	96-SD9	----	8080	09/25/1996	Sediment	0.002	JB	0.0003	0.01
DIELDRIN	PEST/PCB	171 ft from DP (west side)	96575207SD	96-SD7	----	8080	09/25/1996	Sediment	0.004	JB	0.0006	0.02
DIELDRIN	PEST/PCB	40 ft from DP	96575202SD	96-SD2	----	8080	09/25/1996	Sediment	0.011	JB	0.0006	0.02
DIELDRIN	PEST/PCB	79 ft from DP	96575203SD-AVG	96-SD3	----	8080	09/25/1996	Sediment	0.0055	JB	0.0006	0.02
DIELDRIN	PEST/PCB	Discharge pipe (DP)	96575201SD	96-SD1	----	8080	09/25/1996	Sediment	0.008	JB	0.0003	0.01
DIELDRIN	PEST/PCB	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8080	09/26/1996	Sediment	0.004	JB	0.0006	0.02
DIELDRIN	PEST/PCB	Downstream end of 35-752 pond	975752007SD-AVG	96-SD007	0	SW8081	10/21/1997	Sediment	0.0003	U	0.0003	0.02
DIELDRIN	PEST/PCB	Drum Accumulation Area	94575210SL	SS 8	2'	8080	10/06/1994	Soil	0.01	U		0.01
DIELDRIN	PEST/PCB	Drum Accumulation Area	94575211SL	SS 7	2'	8080	10/10/1994	Soil	0.01	U		0.01
DIELDRIN	PEST/PCB	Drum Accumulation Area	94575212SL	SS 6	2'	8080	10/10/1994	Soil	0.01	U		0.01
DIELDRIN	PEST/PCB	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8080	10/10/1994	Soil	0.01	U		0.01
DIELDRIN	PEST/PCB	Drum Accumulation Area	94575215SL	SS 4	2'	8080	10/10/1994	Soil	0.01	U		0.01
DIELDRIN	PEST/PCB	Drum Accumulation Area	94575216SL	SS 3	2'	8080	10/10/1994	Soil	0.01	U		0.01
DIELDRIN	PEST/PCB	Drum Accumulation Area	94575217SL	SS 2	2'	8080	10/10/1994	Soil	0.01	U		0.01
DIELDRIN	PEST/PCB	Drum Accumulation Area	94575218SL	SS 1	2'	8080	10/10/1994	Soil	0.01	U		0.01
DIELDRIN	PEST/PCB	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8080	11/03/1994	Soil	0.06	U		0.06
DIELDRIN	PEST/PCB	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8080	11/03/1994	Soil	0.01	U		0.01
DIELDRIN	PEST/PCB	Cooling Pond	94575229SL	AP-3502	4'-6'	8080	11/07/1994	Soil	0.01	U		0.01
DIELDRIN	PEST/PCB	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8080	11/09/1994	Soil	0.01	U		0.01
DIELDRIN	PEST/PCB	Cooling Pond	94575240SL	AP-3501	5'-7'	8080	11/11/1994	Soil	0.03	U		0.03
DIELDRIN	PEST/PCB	965752BH01	96575225SL	AP-3785	5	8080	10/02/1996	Soil	0.005	J	0.0003	0.0003
DIELDRIN	PEST/PCB	965752BH03	96575231SL-AVG	AP-3787	2.5	8080	10/03/1996	Soil	0.0003	U	0.0003	0.0003
DIELDRIN	PEST/PCB	965752BH03	96575233SL	AP-3787	5	8080	10/03/1996	Soil	0.0003	U	0.0003	0.0003
DIELDRIN	PEST/PCB	965752BH04	96575238SL	AP-3788	2.5	8080	10/03/1996	Soil	0.0003	U	0.0003	0.0003
DIELDRIN	PEST/PCB	965752BH04	96575239SL-AVG	AP-3788	5	8080	10/03/1996	Soil	0.0003	U	0.0003	0.0003
DIELDRIN	PEST/PCB	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8080	10/06/1994	Soil	0.01	U		0.01
DIELDRIN	PEST/PCB	Drum Accumulation Area	94575203SL	SS 2	6"	8080	10/06/1994	Soil	0.01	U		0.01
DIELDRIN	PEST/PCB	Drum Accumulation Area	94575204SL	SS 3	6"	8080	10/06/1994	Soil	0.01	U		0.01
DIELDRIN	PEST/PCB	Drum Accumulation Area	94575205SL	SS 4	6"	8080	10/06/1994	Soil	0.01	U		0.01
DIELDRIN	PEST/PCB	Drum Accumulation Area	94575206SL	SS 5	6"	8080	10/06/1994	Soil	0.01	U		0.01
DIELDRIN	PEST/PCB	Drum Accumulation Area	94575207SL	SS 6	6"	8080	10/06/1994	Soil	0.02	U		0.02
DIELDRIN	PEST/PCB	Drum Accumulation Area	94575208SL	SS 7	6"	8080	10/06/1994	Soil	0.01	U		0.01
DIELDRIN	PEST/PCB	Drum Accumulation Area	94575209SL	SS 8	6"	8080	10/06/1994	Soil	0.01	U		0.01
DIELDRIN	PEST/PCB	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8080	11/03/1994	Soil	0.1	U		0.1

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
DIELDRIN	PEST/PCB	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8080	11/03/1994	Soil	0.01	U		0.01
DIELDRIN	PEST/PCB	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8080	11/07/1994	Soil	0.1	U		0.1
DIELDRIN	PEST/PCB	Cooling Pond	94575231SL	AP-3503	0-6'	8080	11/08/1994	Soil	0.01	U		0.01
DIELDRIN	PEST/PCB	Cooling Pond	94575235SL	AP-3504	0-2'	8080	11/09/1994	Soil	0.01	U		0.01
DIELDRIN	PEST/PCB	965752BH03	96575230SL	AP-3787	0	8080	10/03/1996	Soil	0.004	J	0.0003	0.01
DIELDRIN	PEST/PCB	965752BH04	96575236SL-AVG	AP-3788	0	8080	10/03/1996	Soil	0.0003	U	0.0003	0.01
DIESEL RANGE ORGANICS	TPH	Bldg. 35-752, Periphery Road	02B752132SL	P1	1.5 - 2	AK102	07/30/2002	Soil	3.3	JB	0.7	4.5
DIESEL RANGE ORGANICS	TPH	Bldg. 35-752, Periphery Road	02B752202SL	P24	1 - 1.5	AK102	07/30/2002	Soil	18	=	0.72	4.7
DIESEL RANGE ORGANICS	TPH	Bldg. 35-752, Periphery Road	02B752215SL	P28	1.5 - 2	AK102	07/30/2002	Soil	310	=	0.64	4.2
DIESEL RANGE ORGANICS	TPH	Bldg. 35-752, Periphery Road	02B752220SL	P30	1 - 1.5	AK102	07/30/2002	Soil	1.4	JB	0.65	4.2
DIESEL RANGE ORGANICS	TPH	Bldg. 35-752, Periphery Road	02B752157SL-AVG	P10	0 - 0.5	AK102	07/30/2002	Soil	13.5	=		
DIESEL RANGE ORGANICS	TPH	Bldg. 35-752, Periphery Road	02B752208SL	P26	0 - 0.5	AK102	07/30/2002	Soil	36	=		
DIESEL RANGE ORGANICS	TPH	Bldg. 35-752, Periphery Road	02B752217SL	P29	0 - 0.5	AK102	07/30/2002	Soil	68	=		
DIESEL RANGE ORGANICS	TPH	Bldg. 35-752, Stockpile Area	02B75264SL	S31	1 - 1.5	AK102	07/26/2002	Soil	5.2	J	0.63	4.1
DIESEL RANGE ORGANICS	TPH	Bldg. 35-752, Stockpile Area	02B75270SL	S34	1 - 1.5	AK102	07/26/2002	Soil	21	J	0.82	5.3
DIESEL RANGE ORGANICS	TPH	Bldg. 35-752, Stockpile Area	02B75277SL	S38	0 - 0.5	AK102	07/26/2002	Soil	29	J	1.3	8.3
DIESEL RANGE ORGANICS	TPH	Bldg. 35-752, Stockpile Area	02B75283SL-AVG	S41	0 - 0.5	AK102	07/26/2002	Soil	13.5	J		
DIESEL RANGE ORGANICS	TPH	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	AK102	09/25/1996	Sediment	1570	=	3	4
DIESEL RANGE ORGANICS	TPH	119 ft from DP	96575205SD	96-SD5	----	AK102	09/25/1996	Sediment	412	=	3	4
DIESEL RANGE ORGANICS	TPH	147 ft from DP	96575206SD	96-SD6	----	AK102	09/25/1996	Sediment	32	=	3	4
DIESEL RANGE ORGANICS	TPH	165 ft from DP	96575208SD	96-SD8	----	AK102	09/25/1996	Sediment	694	J	3	4
DIESEL RANGE ORGANICS	TPH	171 ft from DP (east side)	96575209SD	96-SD9	----	AK102	09/25/1996	Sediment	235	=	3	4
DIESEL RANGE ORGANICS	TPH	171 ft from DP (west side)	96575207SD	96-SD7	----	AK102	09/25/1996	Sediment	624	=	3	4
DIESEL RANGE ORGANICS	TPH	40 ft from DP	96575202SD	96-SD2	----	AK102	09/25/1996	Sediment	156	=	3	4
DIESEL RANGE ORGANICS	TPH	79 ft from DP	96575203SD-AVG	96-SD3	----	AK102	09/25/1996	Sediment	153	=	3	4
DIESEL RANGE ORGANICS	TPH	Discharge pipe (DP)	96575201SD	96-SD1	----	AK102	09/25/1996	Sediment	55	AC	3	4
DIESEL RANGE ORGANICS	TPH	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	AK102	09/26/1996	Sediment	2300	=	30	40
DIESEL RANGE ORGANICS	TPH	Drum Accumulation Area	94575210SL	SS 8	2'	8100	10/06/1994	Soil	10	U		10
DIESEL RANGE ORGANICS	TPH	Drum Accumulation Area	94575211SL	SS 7	2'	8100	10/10/1994	Soil	17	=		10
DIESEL RANGE ORGANICS	TPH	Drum Accumulation Area	94575212SL	SS 6	2'	8100	10/10/1994	Soil	52	=		10
DIESEL RANGE ORGANICS	TPH	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8100	10/10/1994	Soil	723.5	=		10
DIESEL RANGE ORGANICS	TPH	Drum Accumulation Area	94575215SL	SS 4	2'	8100	10/10/1994	Soil	61	=		10
DIESEL RANGE ORGANICS	TPH	Drum Accumulation Area	94575216SL	SS 3	2'	8100	10/10/1994	Soil	10	U		10
DIESEL RANGE ORGANICS	TPH	Drum Accumulation Area	94575217SL	SS 2	2'	8100	10/10/1994	Soil	15	=		10
DIESEL RANGE ORGANICS	TPH	Drum Accumulation Area	94575218SL	SS 1	2'	8100	10/10/1994	Soil	10	U		10
DIESEL RANGE ORGANICS	TPH	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8100	11/03/1994	Soil	61	=		10
DIESEL RANGE ORGANICS	TPH	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8100	11/03/1994	Soil	10	U		10
DIESEL RANGE ORGANICS	TPH	Cooling Pond	94575229SL	AP-3502	4'-6'	8100	11/07/1994	Soil	24	J		10
DIESEL RANGE ORGANICS	TPH	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8100	11/09/1994	Soil	10	U		10
DIESEL RANGE ORGANICS	TPH	Cooling Pond	94575240SL	AP-3501	5'-7'	8100	11/11/1994	Soil	100	=		10
DIESEL RANGE ORGANICS	TPH	965752BH01	96575225SL	AP-3785	5	AK102	10/02/1996	Soil	8	=	3	3
DIESEL RANGE ORGANICS	TPH	965752BH03	96575231SL-AVG	AP-3787	2.5	AK102	10/03/1996	Soil	422	=	3	3
DIESEL RANGE ORGANICS	TPH	965752BH03	96575233SL	AP-3787	5	AK102	10/03/1996	Soil	11	=	3	3
DIESEL RANGE ORGANICS	TPH	965752BH04	96575238SL	AP-3788	2.5	AK102	10/03/1996	Soil	3	U	3	3
DIESEL RANGE ORGANICS	TPH	965752BH04	96575239SL-AVG	AP-3788	5	AK102	10/03/1996	Soil	3	U	3	3
DIESEL RANGE ORGANICS	TPH	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8100	10/06/1994	Soil	52.5	=		10
DIESEL RANGE ORGANICS	TPH	Drum Accumulation Area	94575203SL	SS 2	6"	8100	10/06/1994	Soil	18	=		10
DIESEL RANGE ORGANICS	TPH	Drum Accumulation Area	94575204SL	SS 3	6"	8100	10/06/1994	Soil	70	=		10
DIESEL RANGE ORGANICS	TPH	Drum Accumulation Area	94575205SL	SS 4	6"	8100	10/06/1994	Soil	92	=		10
DIESEL RANGE ORGANICS	TPH	Drum Accumulation Area	94575206SL	SS 5	6"	8100	10/06/1994	Soil	192	=		10
DIESEL RANGE ORGANICS	TPH	Drum Accumulation Area	94575207SL	SS 6	6"	8100	10/06/1994	Soil	97	=		10
DIESEL RANGE ORGANICS	TPH	Drum Accumulation Area	94575208SL	SS 7	6"	8100	10/06/1994	Soil	10	U		10
DIESEL RANGE ORGANICS	TPH	Drum Accumulation Area	94575209SL	SS 8	6"	8100	10/06/1994	Soil	100	=		10
DIESEL RANGE ORGANICS	TPH	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8100	11/03/1994	Soil	81	=		10
DIESEL RANGE ORGANICS	TPH	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8100	11/03/1994	Soil	83	=		10
DIESEL RANGE ORGANICS	TPH	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8100	11/07/1994	Soil	129	J		10
DIESEL RANGE ORGANICS	TPH	Cooling Pond	94575231SL	AP-3503	0-6'	8100	11/08/1994	Soil	55	=		10
DIESEL RANGE ORGANICS	TPH	Cooling Pond	94575235SL	AP-3504	0-2'	8100	11/09/1994	Soil	51	=		10
DIESEL RANGE ORGANICS	TPH	965752BH03	96575230SL	AP-3787	0	AK102	10/03/1996	Soil	70	=	3	4
DIESEL RANGE ORGANICS	TPH	965752BH04	96575236SL-AVG	AP-3788	0	AK102	10/03/1996	Soil	116	=	3	4
DIESEL RANGE ORGANICS	TPH	Tank 1109; BH-12	90FRUST86 soil	AP-2982	5-6.5'	8015m	08/21/1990	Soil	2.1	U		2.1
DIESEL RANGE ORGANICS	TPH	Tank 1109; BH-13	90FRUST90 soil	AP-2983	5-5.5'	8015m	08/21/1990	Soil	18	U		18

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Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
DIETHYL PHTHALATE	SVOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
DIETHYL PHTHALATE	SVOC	Cooling Pond	94575242SD	SD-B	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
DIETHYL PHTHALATE	SVOC	Cooling Pond	94575243SD	SD-C	0-6"	8270	12/08/1994	Sediment	4	U		4
DIETHYL PHTHALATE	SVOC	Cooling Pond	94575244SD	SD-D	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
DIETHYL PHTHALATE	SVOC	Cooling Pond	94575245SD	SD-E	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
DIETHYL PHTHALATE	SVOC	Cooling Pond	94575246SD	SD-F	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
DIETHYL PHTHALATE	SVOC	Cooling Pond	94575247SD	SD-G	0-6"	8270	12/08/1994	Sediment	0.8	U		0.8
DIETHYL PHTHALATE	SVOC	Cooling Pond	94575248SD	SD-H	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
DIETHYL PHTHALATE	SVOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8270	09/25/1996	Sediment	0.5	U	0.5	3
DIETHYL PHTHALATE	SVOC	119 ft from DP	96575205SD	96-SD5	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7
DIETHYL PHTHALATE	SVOC	147 ft from DP	96575206SD	96-SD6	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
DIETHYL PHTHALATE	SVOC	165 ft from DP	96575208SD	96-SD8	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
DIETHYL PHTHALATE	SVOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
DIETHYL PHTHALATE	SVOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8270	09/25/1996	Sediment	0.1	U	0.1	0.7
DIETHYL PHTHALATE	SVOC	40 ft from DP	96575202SD	96-SD2	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7
DIETHYL PHTHALATE	SVOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7
DIETHYL PHTHALATE	SVOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
DIETHYL PHTHALATE	SVOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8270	09/26/1996	Sediment	0.2	U	0.2	1.2
DIETHYL PHTHALATE	SVOC	Drum Accumulation Area	94575210SL	SS 8	2'	8270	10/06/1994	Soil	0.3	U		0.3
DIETHYL PHTHALATE	SVOC	Drum Accumulation Area	94575211SL	SS 7	2'	8270	10/10/1994	Soil	0.3	U		0.3
DIETHYL PHTHALATE	SVOC	Drum Accumulation Area	94575212SL	SS 6	2'	8270	10/10/1994	Soil	0.3	U		0.3
DIETHYL PHTHALATE	SVOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8270	10/10/1994	Soil	0.5	U		0.5
DIETHYL PHTHALATE	SVOC	Drum Accumulation Area	94575215SL	SS 4	2'	8270	10/10/1994	Soil	0.3	U		0.3
DIETHYL PHTHALATE	SVOC	Drum Accumulation Area	94575216SL	SS 3	2'	8270	10/10/1994	Soil	0.3	U		0.3
DIETHYL PHTHALATE	SVOC	Drum Accumulation Area	94575217SL	SS 2	2'	8270	10/10/1994	Soil	0.3	U		0.3
DIETHYL PHTHALATE	SVOC	Drum Accumulation Area	94575218SL	SS 1	2'	8270	10/10/1994	Soil	0.3	U		0.3
DIETHYL PHTHALATE	SVOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8270	11/03/1994	Soil	0.3	U		0.3
DIETHYL PHTHALATE	SVOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8270	11/03/1994	Soil	0.3	U		0.3
DIETHYL PHTHALATE	SVOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8270	11/07/1994	Soil	0.3	U		0.3
DIETHYL PHTHALATE	SVOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8270	11/09/1994	Soil	0.3	U		0.3
DIETHYL PHTHALATE	SVOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8270	11/11/1994	Soil	0.3	U		0.3
DIETHYL PHTHALATE	SVOC	965752BH01	96575225SL	AP-3785	5	8270	10/02/1996	Soil	0.05	U	0.05	0.05
DIETHYL PHTHALATE	SVOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8270	10/03/1996	Soil	0.1	U	0.1	0.1
DIETHYL PHTHALATE	SVOC	965752BH03	96575233SL	AP-3787	5	8270	10/03/1996	Soil	0.05	U	0.05	0.05
DIETHYL PHTHALATE	SVOC	965752BH04	96575238SL	AP-3788	2.5	8270	10/03/1996	Soil	0.05	U	0.05	0.05
DIETHYL PHTHALATE	SVOC	965752BH04	96575239SL-AVG	AP-3788	5	8270	10/03/1996	Soil	0.05	U	0.05	0.05
DIETHYL PHTHALATE	SVOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8270	10/06/1994	Soil	0.3	U		0.3
DIETHYL PHTHALATE	SVOC	Drum Accumulation Area	94575203SL	SS 2	6"	8270	10/06/1994	Soil	0.3	U		0.3
DIETHYL PHTHALATE	SVOC	Drum Accumulation Area	94575204SL	SS 3	6"	8270	10/06/1994	Soil	0.3	U		0.3
DIETHYL PHTHALATE	SVOC	Drum Accumulation Area	94575205SL	SS 4	6"	8270	10/06/1994	Soil	0.3	U		0.3
DIETHYL PHTHALATE	SVOC	Drum Accumulation Area	94575206SL	SS 5	6"	8270	10/06/1994	Soil	0.3	U		0.3
DIETHYL PHTHALATE	SVOC	Drum Accumulation Area	94575207SL	SS 6	6"	8270	10/06/1994	Soil	0.3	U		0.3
DIETHYL PHTHALATE	SVOC	Drum Accumulation Area	94575208SL	SS 7	6"	8270	10/06/1994	Soil	0.3	U		0.3
DIETHYL PHTHALATE	SVOC	Drum Accumulation Area	94575209SL	SS 8	6"	8270	10/06/1994	Soil	0.3	U		0.3
DIETHYL PHTHALATE	SVOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8270	11/03/1994	Soil	0.6	U		0.6
DIETHYL PHTHALATE	SVOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8270	11/03/1994	Soil	0.6	U		0.6
DIETHYL PHTHALATE	SVOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8270	11/07/1994	Soil	0.3	U		0.3
DIETHYL PHTHALATE	SVOC	Cooling Pond	94575231SL	AP-3503	0-6'	8270	11/08/1994	Soil	0.3	U		0.3
DIETHYL PHTHALATE	SVOC	Cooling Pond	94575235SL	AP-3504	0-2'	8270	11/09/1994	Soil	0.3	U		0.3
DIETHYL PHTHALATE	SVOC	965752BH03	96575230SL	AP-3787	0	8270	10/03/1996	Soil	0.05	U	0.05	0.3
DIETHYL PHTHALATE	SVOC	965752BH04	96575236SL-AVG	AP-3788	0	8270	10/03/1996	Soil	0.05	U	0.05	0.3
DIMETHYL PHTHALATE	SVOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
DIMETHYL PHTHALATE	SVOC	Cooling Pond	94575242SD	SD-B	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
DIMETHYL PHTHALATE	SVOC	Cooling Pond	94575243SD	SD-C	0-6"	8270	12/08/1994	Sediment	4	U		4
DIMETHYL PHTHALATE	SVOC	Cooling Pond	94575244SD	SD-D	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
DIMETHYL PHTHALATE	SVOC	Cooling Pond	94575245SD	SD-E	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
DIMETHYL PHTHALATE	SVOC	Cooling Pond	94575246SD	SD-F	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
DIMETHYL PHTHALATE	SVOC	Cooling Pond	94575247SD	SD-G	0-6"	8270	12/08/1994	Sediment	0.8	U		0.8
DIMETHYL PHTHALATE	SVOC	Cooling Pond	94575248SD	SD-H	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
DIMETHYL PHTHALATE	SVOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8270	09/25/1996	Sediment	0.5	U	0.5	3
DIMETHYL PHTHALATE	SVOC	119 ft from DP	96575205SD	96-SD5	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7
DIMETHYL PHTHALATE	SVOC	147 ft from DP	96575206SD	96-SD6	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
DIMETHYL PHTHALATE	SVOC	165 ft from DP	96575208SD	96-SD8	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
DIMETHYL PHTHALATE	SVOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
DIMETHYL PHTHALATE	SVOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8270	09/25/1996	Sediment	0.1	U	0.1	0.7
DIMETHYL PHTHALATE	SVOC	40 ft from DP	96575202SD	96-SD2	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7
DIMETHYL PHTHALATE	SVOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7
DIMETHYL PHTHALATE	SVOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
DIMETHYL PHTHALATE	SVOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8270	09/26/1996	Sediment	0.2	U	0.2	1.2
DIMETHYL PHTHALATE	SVOC	Drum Accumulation Area	94575210SL	SS 8	2'	8270	10/06/1994	Soil	0.3	U		0.3
DIMETHYL PHTHALATE	SVOC	Drum Accumulation Area	94575211SL	SS 7	2'	8270	10/10/1994	Soil	0.3	U		0.3
DIMETHYL PHTHALATE	SVOC	Drum Accumulation Area	94575212SL	SS 6	2'	8270	10/10/1994	Soil	0.3	U		0.3
DIMETHYL PHTHALATE	SVOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8270	10/10/1994	Soil	0.5	U		0.5
DIMETHYL PHTHALATE	SVOC	Drum Accumulation Area	94575215SL	SS 4	2'	8270	10/10/1994	Soil	0.3	U		0.3
DIMETHYL PHTHALATE	SVOC	Drum Accumulation Area	94575216SL	SS 3	2'	8270	10/10/1994	Soil	0.3	U		0.3
DIMETHYL PHTHALATE	SVOC	Drum Accumulation Area	94575217SL	SS 2	2'	8270	10/10/1994	Soil	0.3	U		0.3
DIMETHYL PHTHALATE	SVOC	Drum Accumulation Area	94575218SL	SS 1	2'	8270	10/10/1994	Soil	0.3	U		0.3
DIMETHYL PHTHALATE	SVOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8270	11/03/1994	Soil	0.3	U		0.3
DIMETHYL PHTHALATE	SVOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8270	11/03/1994	Soil	0.3	U		0.3
DIMETHYL PHTHALATE	SVOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8270	11/07/1994	Soil	0.3	U		0.3
DIMETHYL PHTHALATE	SVOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8270	11/09/1994	Soil	0.3	U		0.3
DIMETHYL PHTHALATE	SVOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8270	11/11/1994	Soil	0.3	U		0.3
DIMETHYL PHTHALATE	SVOC	965752BH01	96575225SL	AP-3785	5	8270	10/02/1996	Soil	0.05	U	0.05	0.05
DIMETHYL PHTHALATE	SVOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8270	10/03/1996	Soil	0.1	U	0.1	0.1
DIMETHYL PHTHALATE	SVOC	965752BH03	96575233SL	AP-3787	5	8270	10/03/1996	Soil	0.05	U	0.05	0.05
DIMETHYL PHTHALATE	SVOC	965752BH04	96575238SL	AP-3788	2.5	8270	10/03/1996	Soil	0.05	U	0.05	0.05
DIMETHYL PHTHALATE	SVOC	965752BH04	96575239SL-AVG	AP-3788	5	8270	10/03/1996	Soil	0.05	U	0.05	0.05
DIMETHYL PHTHALATE	SVOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8270	10/06/1994	Soil	0.3	U		0.3
DIMETHYL PHTHALATE	SVOC	Drum Accumulation Area	94575203SL	SS 2	6"	8270	10/06/1994	Soil	0.3	U		0.3
DIMETHYL PHTHALATE	SVOC	Drum Accumulation Area	94575204SL	SS 3	6"	8270	10/06/1994	Soil	0.3	U		0.3
DIMETHYL PHTHALATE	SVOC	Drum Accumulation Area	94575205SL	SS 4	6"	8270	10/06/1994	Soil	0.3	U		0.3
DIMETHYL PHTHALATE	SVOC	Drum Accumulation Area	94575206SL	SS 5	6"	8270	10/06/1994	Soil	0.3	U		0.3
DIMETHYL PHTHALATE	SVOC	Drum Accumulation Area	94575207SL	SS 6	6"	8270	10/06/1994	Soil	0.3	U		0.3
DIMETHYL PHTHALATE	SVOC	Drum Accumulation Area	94575208SL	SS 7	6"	8270	10/06/1994	Soil	0.3	U		0.3
DIMETHYL PHTHALATE	SVOC	Drum Accumulation Area	94575209SL	SS 8	6"	8270	10/06/1994	Soil	0.3	U		0.3
DIMETHYL PHTHALATE	SVOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8270	11/03/1994	Soil	0.6	U		0.6
DIMETHYL PHTHALATE	SVOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8270	11/03/1994	Soil	0.6	U		0.6
DIMETHYL PHTHALATE	SVOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8270	11/07/1994	Soil	0.3	U		0.3
DIMETHYL PHTHALATE	SVOC	Cooling Pond	94575231SL	AP-3503	0-6'	8270	11/08/1994	Soil	0.3	U		0.3
DIMETHYL PHTHALATE	SVOC	Cooling Pond	94575235SL	AP-3504	0-2'	8270	11/09/1994	Soil	0.3	U		0.3
DIMETHYL PHTHALATE	SVOC	965752BH03	96575230SL	AP-3787	0	8270	10/03/1996	Soil	0.05	U	0.05	0.3
DIMETHYL PHTHALATE	SVOC	965752BH04	96575236SL-AVG	AP-3788	0	8270	10/03/1996	Soil	0.05	U	0.05	0.3
DI-n-BUTYL PHTHALATE	SVOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
DI-n-BUTYL PHTHALATE	SVOC	Cooling Pond	94575242SD	SD-B	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
DI-n-BUTYL PHTHALATE	SVOC	Cooling Pond	94575243SD	SD-C	0-6"	8270	12/08/1994	Sediment	4	U		4
DI-n-BUTYL PHTHALATE	SVOC	Cooling Pond	94575244SD	SD-D	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
DI-n-BUTYL PHTHALATE	SVOC	Cooling Pond	94575245SD	SD-E	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
DI-n-BUTYL PHTHALATE	SVOC	Cooling Pond	94575246SD	SD-F	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
DI-n-BUTYL PHTHALATE	SVOC	Cooling Pond	94575247SD	SD-G	0-6"	8270	12/08/1994	Sediment	0.8	U		0.8
DI-n-BUTYL PHTHALATE	SVOC	Cooling Pond	94575248SD	SD-H	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
DI-n-BUTYL PHTHALATE	SVOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8270	09/25/1996	Sediment	0.5	U	0.5	3
DI-n-BUTYL PHTHALATE	SVOC	119 ft from DP	96575205SD	96-SD5	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7
DI-n-BUTYL PHTHALATE	SVOC	147 ft from DP	96575206SD	96-SD6	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
DI-n-BUTYL PHTHALATE	SVOC	165 ft from DP	96575208SD	96-SD8	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
DI-n-BUTYL PHTHALATE	SVOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
DI-n-BUTYL PHTHALATE	SVOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8270	09/25/1996	Sediment	0.1	U	0.1	0.7
DI-n-BUTYL PHTHALATE	SVOC	40 ft from DP	96575202SD	96-SD2	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7
DI-n-BUTYL PHTHALATE	SVOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7
DI-n-BUTYL PHTHALATE	SVOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
DI-n-BUTYL PHTHALATE	SVOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8270	09/26/1996	Sediment	0.2	U	0.2	1.2
DI-n-BUTYL PHTHALATE	SVOC	Drum Accumulation Area	94575210SL	SS 8	2'	8270	10/06/1994	Soil	0.3	U		0.3
DI-n-BUTYL PHTHALATE	SVOC	Drum Accumulation Area	94575211SL	SS 7	2'	8270	10/10/1994	Soil	0.3	U		0.3
DI-n-BUTYL PHTHALATE	SVOC	Drum Accumulation Area	94575212SL	SS 6	2'	8270	10/10/1994	Soil	0.3	U		0.3
DI-n-BUTYL PHTHALATE	SVOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8270	10/10/1994	Soil	0.5	U		0.5

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
DI-n-BUTYL PHTHALATE	SVOC	Drum Accumulation Area	94575215SL	SS 4	2'	8270	10/10/1994	Soil	0.3	U		0.3
DI-n-BUTYL PHTHALATE	SVOC	Drum Accumulation Area	94575216SL	SS 3	2'	8270	10/10/1994	Soil	0.3	U		0.3
DI-n-BUTYL PHTHALATE	SVOC	Drum Accumulation Area	94575217SL	SS 2	2'	8270	10/10/1994	Soil	0.3	U		0.3
DI-n-BUTYL PHTHALATE	SVOC	Drum Accumulation Area	94575218SL	SS 1	2'	8270	10/10/1994	Soil	0.3	U		0.3
DI-n-BUTYL PHTHALATE	SVOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8270	11/03/1994	Soil	0.3	U		0.3
DI-n-BUTYL PHTHALATE	SVOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8270	11/03/1994	Soil	0.3	U		0.3
DI-n-BUTYL PHTHALATE	SVOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8270	11/07/1994	Soil	0.3	U		0.3
DI-n-BUTYL PHTHALATE	SVOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8270	11/09/1994	Soil	0.3	U		0.3
DI-n-BUTYL PHTHALATE	SVOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8270	11/11/1994	Soil	0.3	U		0.3
DI-n-BUTYL PHTHALATE	SVOC	965752BH01	96575225SL	AP-3785	5	8270	10/02/1996	Soil	0.05	U	0.05	0.05
DI-n-BUTYL PHTHALATE	SVOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8270	10/03/1996	Soil	0.1	U	0.1	0.1
DI-n-BUTYL PHTHALATE	SVOC	965752BH03	96575233SL	AP-3787	5	8270	10/03/1996	Soil	0.05	U	0.05	0.05
DI-n-BUTYL PHTHALATE	SVOC	965752BH04	96575238SL	AP-3788	2.5	8270	10/03/1996	Soil	0.05	U	0.05	0.05
DI-n-BUTYL PHTHALATE	SVOC	965752BH04	96575239SL-AVG	AP-3788	5	8270	10/03/1996	Soil	0.05	U	0.05	0.05
DI-n-BUTYL PHTHALATE	SVOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8270	10/06/1994	Soil	0.3	U		0.3
DI-n-BUTYL PHTHALATE	SVOC	Drum Accumulation Area	94575203SL	SS 2	6"	8270	10/06/1994	Soil	0.3	U		0.3
DI-n-BUTYL PHTHALATE	SVOC	Drum Accumulation Area	94575204SL	SS 3	6"	8270	10/06/1994	Soil	0.3	U		0.3
DI-n-BUTYL PHTHALATE	SVOC	Drum Accumulation Area	94575205SL	SS 4	6"	8270	10/06/1994	Soil	0.3	U		0.3
DI-n-BUTYL PHTHALATE	SVOC	Drum Accumulation Area	94575206SL	SS 5	6"	8270	10/06/1994	Soil	0.3	U		0.3
DI-n-BUTYL PHTHALATE	SVOC	Drum Accumulation Area	94575207SL	SS 6	6"	8270	10/06/1994	Soil	0.3	U		0.3
DI-n-BUTYL PHTHALATE	SVOC	Drum Accumulation Area	94575208SL	SS 7	6"	8270	10/06/1994	Soil	0.3	U		0.3
DI-n-BUTYL PHTHALATE	SVOC	Drum Accumulation Area	94575209SL	SS 8	6"	8270	10/06/1994	Soil	0.3	U		0.3
DI-n-BUTYL PHTHALATE	SVOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8270	11/03/1994	Soil	0.6	U		0.6
DI-n-BUTYL PHTHALATE	SVOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8270	11/03/1994	Soil	0.6	U		0.6
DI-n-BUTYL PHTHALATE	SVOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8270	11/07/1994	Soil	0.3	U		0.3
DI-n-BUTYL PHTHALATE	SVOC	Cooling Pond	94575231SL	AP-3503	0-6'	8270	11/08/1994	Soil	0.3	U		0.3
DI-n-BUTYL PHTHALATE	SVOC	Cooling Pond	94575235SL	AP-3504	0-2'	8270	11/09/1994	Soil	0.3	U		0.3
DI-n-BUTYL PHTHALATE	SVOC	965752BH03	96575230SL	AP-3787	0	8270	10/03/1996	Soil	0.05	U	0.05	0.3
DI-n-BUTYL PHTHALATE	SVOC	965752BH04	96575236SL-AVG	AP-3788	0	8270	10/03/1996	Soil	0.05	U	0.05	0.3
DI-n-OCTYLPHTHALATE	SVOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
DI-n-OCTYLPHTHALATE	SVOC	Cooling Pond	94575242SD	SD-B	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
DI-n-OCTYLPHTHALATE	SVOC	Cooling Pond	94575243SD	SD-C	0-6"	8270	12/08/1994	Sediment	4	U		4
DI-n-OCTYLPHTHALATE	SVOC	Cooling Pond	94575244SD	SD-D	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
DI-n-OCTYLPHTHALATE	SVOC	Cooling Pond	94575245SD	SD-E	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
DI-n-OCTYLPHTHALATE	SVOC	Cooling Pond	94575246SD	SD-F	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
DI-n-OCTYLPHTHALATE	SVOC	Cooling Pond	94575247SD	SD-G	0-6"	8270	12/08/1994	Sediment	0.8	U		0.8
DI-n-OCTYLPHTHALATE	SVOC	Cooling Pond	94575248SD	SD-H	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
DI-n-OCTYLPHTHALATE	SVOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8270	09/25/1996	Sediment	0.4	U	0.4	3
DI-n-OCTYLPHTHALATE	SVOC	119 ft from DP	96575205SD	96-SD5	----	8270	09/25/1996	Sediment	0.09	U	0.09	0.7
DI-n-OCTYLPHTHALATE	SVOC	147 ft from DP	96575206SD	96-SD6	----	8270	09/25/1996	Sediment	0.04	U	0.04	0.3
DI-n-OCTYLPHTHALATE	SVOC	165 ft from DP	96575208SD	96-SD8	----	8270	09/25/1996	Sediment	0.04	U	0.04	0.3
DI-n-OCTYLPHTHALATE	SVOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8270	09/25/1996	Sediment	0.04	U	0.04	0.3
DI-n-OCTYLPHTHALATE	SVOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8270	09/25/1996	Sediment	0.08	U	0.08	0.7
DI-n-OCTYLPHTHALATE	SVOC	40 ft from DP	96575202SD	96-SD2	----	8270	09/25/1996	Sediment	0.09	U	0.09	0.7
DI-n-OCTYLPHTHALATE	SVOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8270	09/25/1996	Sediment	0.09	U	0.09	0.7
DI-n-OCTYLPHTHALATE	SVOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8270	09/25/1996	Sediment	0.04	U	0.04	0.3
DI-n-OCTYLPHTHALATE	SVOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8270	09/26/1996	Sediment	0.2	U	0.2	1.2
DI-n-OCTYLPHTHALATE	SVOC	Drum Accumulation Area	94575210SL	SS 8	2'	8270	10/06/1994	Soil	0.3	U		0.3
DI-n-OCTYLPHTHALATE	SVOC	Drum Accumulation Area	94575211SL	SS 7	2'	8270	10/10/1994	Soil	0.3	U		0.3
DI-n-OCTYLPHTHALATE	SVOC	Drum Accumulation Area	94575212SL	SS 6	2'	8270	10/10/1994	Soil	0.3	U		0.3
DI-n-OCTYLPHTHALATE	SVOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8270	10/10/1994	Soil	0.5	U		0.5
DI-n-OCTYLPHTHALATE	SVOC	Drum Accumulation Area	94575215SL	SS 4	2'	8270	10/10/1994	Soil	0.3	U		0.3
DI-n-OCTYLPHTHALATE	SVOC	Drum Accumulation Area	94575216SL	SS 3	2'	8270	10/10/1994	Soil	0.3	U		0.3
DI-n-OCTYLPHTHALATE	SVOC	Drum Accumulation Area	94575217SL	SS 2	2'	8270	10/10/1994	Soil	0.3	U		0.3
DI-n-OCTYLPHTHALATE	SVOC	Drum Accumulation Area	94575218SL	SS 1	2'	8270	10/10/1994	Soil	0.3	U		0.3
DI-n-OCTYLPHTHALATE	SVOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8270	11/03/1994	Soil	0.97	=		0.3
DI-n-OCTYLPHTHALATE	SVOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8270	11/03/1994	Soil	0.36	=		0.3
DI-n-OCTYLPHTHALATE	SVOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8270	11/07/1994	Soil	0.3	U		0.3
DI-n-OCTYLPHTHALATE	SVOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8270	11/09/1994	Soil	0.3	U		0.3
DI-n-OCTYLPHTHALATE	SVOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8270	11/11/1994	Soil	0.3	U		0.3
DI-n-OCTYLPHTHALATE	SVOC	965752BH01	96575225SL	AP-3785	5	8270	10/02/1996	Soil	0.04	U	0.04	0.04
DI-n-OCTYLPHTHALATE	SVOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8270	10/03/1996	Soil	0.08	U	0.08	0.08

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
DI-n-OCTYLPHTHALATE	SVOC	965752BH03	96575233SL	AP-3787	5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
DI-n-OCTYLPHTHALATE	SVOC	965752BH04	96575238SL	AP-3788	2.5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
DI-n-OCTYLPHTHALATE	SVOC	965752BH04	96575239SL-AVG	AP-3788	5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
DI-n-OCTYLPHTHALATE	SVOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8270	10/06/1994	Soil	0.3	U		0.3
DI-n-OCTYLPHTHALATE	SVOC	Drum Accumulation Area	94575203SL	SS 2	6"	8270	10/06/1994	Soil	0.3	U		0.3
DI-n-OCTYLPHTHALATE	SVOC	Drum Accumulation Area	94575204SL	SS 3	6"	8270	10/06/1994	Soil	0.3	U		0.3
DI-n-OCTYLPHTHALATE	SVOC	Drum Accumulation Area	94575205SL	SS 4	6"	8270	10/06/1994	Soil	0.3	U		0.3
DI-n-OCTYLPHTHALATE	SVOC	Drum Accumulation Area	94575206SL	SS 5	6"	8270	10/06/1994	Soil	0.3	U		0.3
DI-n-OCTYLPHTHALATE	SVOC	Drum Accumulation Area	94575207SL	SS 6	6"	8270	10/06/1994	Soil	0.3	U		0.3
DI-n-OCTYLPHTHALATE	SVOC	Drum Accumulation Area	94575208SL	SS 7	6"	8270	10/06/1994	Soil	0.3	U		0.3
DI-n-OCTYLPHTHALATE	SVOC	Drum Accumulation Area	94575209SL	SS 8	6"	8270	10/06/1994	Soil	0.3	U		0.3
DI-n-OCTYLPHTHALATE	SVOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8270	11/03/1994	Soil	0.6	U		0.6
DI-n-OCTYLPHTHALATE	SVOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8270	11/03/1994	Soil	1.320567376	=		0.3
DI-n-OCTYLPHTHALATE	SVOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8270	11/07/1994	Soil	0.3	U		0.3
DI-n-OCTYLPHTHALATE	SVOC	Cooling Pond	94575231SL	AP-3503	0-6'	8270	11/08/1994	Soil	0.3	U		0.3
DI-n-OCTYLPHTHALATE	SVOC	Cooling Pond	94575235SL	AP-3504	0-2'	8270	11/09/1994	Soil	0.3	U		0.3
DI-n-OCTYLPHTHALATE	SVOC	965752BH03	96575230SL	AP-3787	0	8270	10/03/1996	Soil	0.04	U	0.04	0.3
DI-n-OCTYLPHTHALATE	SVOC	965752BH04	96575236SL-AVG	AP-3788	0	8270	10/03/1996	Soil	0.04	U	0.04	0.3
DINOSEB	SVOC	Drum Accumulation Area	94575210SL	SS 8	2'	8150	10/06/1994	Soil	0.5	U		0.5
DINOSEB	SVOC	Drum Accumulation Area	94575211SL	SS 7	2'	8150	10/10/1994	Soil	0.5	U		0.5
DINOSEB	SVOC	Drum Accumulation Area	94575212SL	SS 6	2'	8150	10/10/1994	Soil	0.5	U		0.5
DINOSEB	SVOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8150	10/10/1994	Soil	0.5	U		0.5
DINOSEB	SVOC	Drum Accumulation Area	94575215SL	SS 4	2'	8150	10/10/1994	Soil	0.5	U		0.5
DINOSEB	SVOC	Drum Accumulation Area	94575216SL	SS 3	2'	8150	10/10/1994	Soil	0.5	U		0.5
DINOSEB	SVOC	Drum Accumulation Area	94575217SL	SS 2	2'	8150	10/10/1994	Soil	0.5	U		0.5
DINOSEB	SVOC	Drum Accumulation Area	94575218SL	SS 1	2'	8150	10/10/1994	Soil	0.5	U		0.5
DINOSEB	SVOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8150	11/03/1994	Soil	0.5	U		0.5
DINOSEB	SVOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8150	11/03/1994	Soil	0.5	U		0.5
DINOSEB	SVOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8150	11/07/1994	Soil	0.5	U		0.5
DINOSEB	SVOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8150	11/09/1994	Soil	0.5	U		0.5
DINOSEB	SVOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8150	11/11/1994	Soil	0.5	U		0.5
DINOSEB	SVOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8150	10/06/1994	Soil	0.5	U		0.5
DINOSEB	SVOC	Drum Accumulation Area	94575203SL	SS 2	6"	8150	10/06/1994	Soil	0.5	U		0.5
DINOSEB	SVOC	Drum Accumulation Area	94575204SL	SS 3	6"	8150	10/06/1994	Soil	0.5	U		0.5
DINOSEB	SVOC	Drum Accumulation Area	94575205SL	SS 4	6"	8150	10/06/1994	Soil	0.5	U		0.5
DINOSEB	SVOC	Drum Accumulation Area	94575206SL	SS 5	6"	8150	10/06/1994	Soil	0.5	U		0.5
DINOSEB	SVOC	Drum Accumulation Area	94575207SL	SS 6	6"	8150	10/06/1994	Soil	0.5	U		0.5
DINOSEB	SVOC	Drum Accumulation Area	94575208SL	SS 7	6"	8150	10/06/1994	Soil	0.5	U		0.5
DINOSEB	SVOC	Drum Accumulation Area	94575209SL	SS 8	6"	8150	10/06/1994	Soil	0.5	U		0.5
DINOSEB	SVOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8150	11/03/1994	Soil	0.5	U		0.5
DINOSEB	SVOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8150	11/03/1994	Soil	0.5	U		0.5
DINOSEB	SVOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8150	11/07/1994	Soil	0.5	U		0.5
DINOSEB	SVOC	Cooling Pond	94575231SL	AP-3503	0-6'	8150	11/08/1994	Soil	0.5	U		0.5
DINOSEB	SVOC	Cooling Pond	94575235SL	AP-3504	0-2'	8150	11/09/1994	Soil	0.5	U		0.5
ENDOSULFAN SULFATE	PEST/PCB	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
ENDOSULFAN SULFATE	PEST/PCB	Cooling Pond	94575242SD	SD-B	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
ENDOSULFAN SULFATE	PEST/PCB	Cooling Pond	94575243SD	SD-C	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
ENDOSULFAN SULFATE	PEST/PCB	Cooling Pond	94575244SD	SD-D	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
ENDOSULFAN SULFATE	PEST/PCB	Cooling Pond	94575245SD	SD-E	0-6"	8080	12/08/1994	Sediment	0.04	U		0.04
ENDOSULFAN SULFATE	PEST/PCB	Cooling Pond	94575246SD	SD-F	0-6"	8080	12/08/1994	Sediment	0.1	U		0.1
ENDOSULFAN SULFATE	PEST/PCB	Cooling Pond	94575247SD	SD-G	0-6"	8080	12/08/1994	Sediment	0.08	U		0.08
ENDOSULFAN SULFATE	PEST/PCB	Cooling Pond	94575248SD	SD-H	0-6"	8080	12/08/1994	Sediment	0.05	U		0.05
ENDOSULFAN SULFATE	PEST/PCB	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8080	09/25/1996	Sediment	0.004	U	0.004	0.02
ENDOSULFAN SULFATE	PEST/PCB	119 ft from DP	96575205SD	96-SD5	----	8080	09/25/1996	Sediment	0.001	U	0.001	0.02
ENDOSULFAN SULFATE	PEST/PCB	147 ft from DP	96575206SD	96-SD6	----	8080	09/25/1996	Sediment	0.0005	U	0.0005	0.01
ENDOSULFAN SULFATE	PEST/PCB	165 ft from DP	96575208SD	96-SD8	----	8080	09/25/1996	Sediment	0.0005	U	0.0005	0.01
ENDOSULFAN SULFATE	PEST/PCB	171 ft from DP (east side)	96575209SD	96-SD9	----	8080	09/25/1996	Sediment	0.0005	U	0.0005	0.01
ENDOSULFAN SULFATE	PEST/PCB	171 ft from DP (west side)	96575207SD	96-SD7	----	8080	09/25/1996	Sediment	0.001	U	0.001	0.02
ENDOSULFAN SULFATE	PEST/PCB	40 ft from DP	96575202SD	96-SD2	----	8080	09/25/1996	Sediment	0.001	U	0.001	0.02
ENDOSULFAN SULFATE	PEST/PCB	79 ft from DP	96575203SD-AVG	96-SD3	----	8080	09/25/1996	Sediment	0.001	U	0.001	0.02
ENDOSULFAN SULFATE	PEST/PCB	Discharge pipe (DP)	96575201SD	96-SD1	----	8080	09/25/1996	Sediment	0.0005	U	0.0005	0.01
ENDOSULFAN SULFATE	PEST/PCB	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8080	09/26/1996	Sediment	0.001	U	0.001	0.02

TABLE A-1
Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
ENDOSULFAN SULFATE	PEST/PCB	Downstream end of 35-752 pond	975752007SD-AVG	96-SD007	0	SW8081	10/21/1997	Sediment	0.0005	U	0.0005	0.02
ENDOSULFAN SULFATE	PEST/PCB	Drum Accumulation Area	94575210SL	SS 8	2'	8080	10/06/1994	Soil	0.01	U		0.01
ENDOSULFAN SULFATE	PEST/PCB	Drum Accumulation Area	94575211SL	SS 7	2'	8080	10/10/1994	Soil	0.01	U		0.01
ENDOSULFAN SULFATE	PEST/PCB	Drum Accumulation Area	94575212SL	SS 6	2'	8080	10/10/1994	Soil	0.01	U		0.01
ENDOSULFAN SULFATE	PEST/PCB	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8080	10/10/1994	Soil	0.01	U		0.01
ENDOSULFAN SULFATE	PEST/PCB	Drum Accumulation Area	94575215SL	SS 4	2'	8080	10/10/1994	Soil	0.01	U		0.01
ENDOSULFAN SULFATE	PEST/PCB	Drum Accumulation Area	94575216SL	SS 3	2'	8080	10/10/1994	Soil	0.01	U		0.01
ENDOSULFAN SULFATE	PEST/PCB	Drum Accumulation Area	94575217SL	SS 2	2'	8080	10/10/1994	Soil	0.01	U		0.01
ENDOSULFAN SULFATE	PEST/PCB	Drum Accumulation Area	94575218SL	SS 1	2'	8080	10/10/1994	Soil	0.01	U		0.01
ENDOSULFAN SULFATE	PEST/PCB	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8080	11/03/1994	Soil	0.06	U		0.06
ENDOSULFAN SULFATE	PEST/PCB	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8080	11/03/1994	Soil	0.01	U		0.01
ENDOSULFAN SULFATE	PEST/PCB	Cooling Pond	94575229SL	AP-3502	4'-6'	8080	11/07/1994	Soil	0.01	U		0.01
ENDOSULFAN SULFATE	PEST/PCB	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8080	11/09/1994	Soil	0.01	U		0.01
ENDOSULFAN SULFATE	PEST/PCB	Cooling Pond	94575240SL	AP-3501	5'-7'	8080	11/11/1994	Soil	0.03	U		0.03
ENDOSULFAN SULFATE	PEST/PCB	965752BH01	96575225SL	AP-3785	5	8080	10/02/1996	Soil	0.0005	U	0.0005	0.0005
ENDOSULFAN SULFATE	PEST/PCB	965752BH03	96575231SL-AVG	AP-3787	2.5	8080	10/03/1996	Soil	0.0005	U	0.0005	0.0005
ENDOSULFAN SULFATE	PEST/PCB	965752BH03	96575233SL	AP-3787	5	8080	10/03/1996	Soil	0.0005	U	0.0005	0.0005
ENDOSULFAN SULFATE	PEST/PCB	965752BH04	96575238SL	AP-3788	2.5	8080	10/03/1996	Soil	0.0005	U	0.0005	0.0005
ENDOSULFAN SULFATE	PEST/PCB	965752BH04	96575239SL-AVG	AP-3788	5	8080	10/03/1996	Soil	0.0005	U	0.0005	0.0005
ENDOSULFAN SULFATE	PEST/PCB	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8080	10/06/1994	Soil	0.01	U		0.01
ENDOSULFAN SULFATE	PEST/PCB	Drum Accumulation Area	94575203SL	SS 2	6"	8080	10/06/1994	Soil	0.01	U		0.01
ENDOSULFAN SULFATE	PEST/PCB	Drum Accumulation Area	94575204SL	SS 3	6"	8080	10/06/1994	Soil	0.01	U		0.01
ENDOSULFAN SULFATE	PEST/PCB	Drum Accumulation Area	94575205SL	SS 4	6"	8080	10/06/1994	Soil	0.01	U		0.01
ENDOSULFAN SULFATE	PEST/PCB	Drum Accumulation Area	94575206SL	SS 5	6"	8080	10/06/1994	Soil	0.01	U		0.01
ENDOSULFAN SULFATE	PEST/PCB	Drum Accumulation Area	94575207SL	SS 6	6"	8080	10/06/1994	Soil	0.01	U		0.01
ENDOSULFAN SULFATE	PEST/PCB	Drum Accumulation Area	94575208SL	SS 7	6"	8080	10/06/1994	Soil	0.01	U		0.01
ENDOSULFAN SULFATE	PEST/PCB	Drum Accumulation Area	94575209SL	SS 8	6"	8080	10/06/1994	Soil	0.01	U		0.01
ENDOSULFAN SULFATE	PEST/PCB	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8080	11/03/1994	Soil	0.1	U		0.1
ENDOSULFAN SULFATE	PEST/PCB	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8080	11/03/1994	Soil	0.01	U		0.01
ENDOSULFAN SULFATE	PEST/PCB	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8080	11/07/1994	Soil	0.1	U		0.1
ENDOSULFAN SULFATE	PEST/PCB	Cooling Pond	94575231SL	AP-3503	0-6'	8080	11/08/1994	Soil	0.01	U		0.01
ENDOSULFAN SULFATE	PEST/PCB	Cooling Pond	94575235SL	AP-3504	0-2'	8080	11/09/1994	Soil	0.08	U		0.08
ENDOSULFAN SULFATE	PEST/PCB	965752BH03	96575230SL	AP-3787	0	8080	10/03/1996	Soil	0.0005	U	0.0005	0.01
ENDOSULFAN SULFATE	PEST/PCB	965752BH04	96575236SL-AVG	AP-3788	0	8080	10/03/1996	Soil	0.0005	U	0.0005	0.01
ENDRIN	PEST/PCB	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8080	12/08/1994	Sediment	0.015	U		0.01
ENDRIN	PEST/PCB	Cooling Pond	94575242SD	SD-B	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
ENDRIN	PEST/PCB	Cooling Pond	94575243SD	SD-C	0-6"	8080	12/08/1994	Sediment	0.03	U		0.03
ENDRIN	PEST/PCB	Cooling Pond	94575244SD	SD-D	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
ENDRIN	PEST/PCB	Cooling Pond	94575245SD	SD-E	0-6"	8080	12/08/1994	Sediment	0.04	U		0.04
ENDRIN	PEST/PCB	Cooling Pond	94575246SD	SD-F	0-6"	8080	12/08/1994	Sediment	0.1	U		0.1
ENDRIN	PEST/PCB	Cooling Pond	94575247SD	SD-G	0-6"	8080	12/08/1994	Sediment	0.08	U		0.08
ENDRIN	PEST/PCB	Cooling Pond	94575248SD	SD-H	0-6"	8080	12/08/1994	Sediment	0.8	U		0.8
ENDRIN	PEST/PCB	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8080	09/25/1996	Sediment	0.002	U	0.002	0.02
ENDRIN	PEST/PCB	119 ft from DP	96575205SD	96-SD5	----	8080	09/25/1996	Sediment	0.002	U	0.002	0.02
ENDRIN	PEST/PCB	147 ft from DP	96575206SD	96-SD6	----	8080	09/25/1996	Sediment	0.0008	U	0.0008	0.01
ENDRIN	PEST/PCB	165 ft from DP	96575208SD	96-SD8	----	8080	09/25/1996	Sediment	0.0008	U	0.0008	0.01
ENDRIN	PEST/PCB	171 ft from DP (east side)	96575209SD	96-SD9	----	8080	09/25/1996	Sediment	0.0008	U	0.0008	0.01
ENDRIN	PEST/PCB	171 ft from DP (west side)	96575207SD	96-SD7	----	8080	09/25/1996	Sediment	0.002	U	0.002	0.02
ENDRIN	PEST/PCB	40 ft from DP	96575202SD	96-SD2	----	8080	09/25/1996	Sediment	0.002	U	0.002	0.02
ENDRIN	PEST/PCB	79 ft from DP	96575203SD-AVG	96-SD3	----	8080	09/25/1996	Sediment	0.002	U	0.002	0.02
ENDRIN	PEST/PCB	Discharge pipe (DP)	96575201SD	96-SD1	----	8080	09/25/1996	Sediment	0.0008	U	0.0008	0.01
ENDRIN	PEST/PCB	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8080	09/26/1996	Sediment	0.002	U	0.002	0.02
ENDRIN	PEST/PCB	Downstream end of 35-752 pond	975752007SD-AVG	96-SD007	0	SW8081	10/21/1997	Sediment	0.034	=	0.0008	0.02
ENDRIN	PEST/PCB	Drum Accumulation Area	94575210SL	SS 8	2'	8080	10/06/1994	Soil	0.4	U		0.4
ENDRIN	PEST/PCB	Drum Accumulation Area	94575211SL	SS 7	2'	8080	10/10/1994	Soil	0.01	U		0.01
ENDRIN	PEST/PCB	Drum Accumulation Area	94575212SL	SS 6	2'	8080	10/10/1994	Soil	0.02	U		0.02
ENDRIN	PEST/PCB	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8080	10/10/1994	Soil	0.01	U		0.01
ENDRIN	PEST/PCB	Drum Accumulation Area	94575215SL	SS 4	2'	8080	10/10/1994	Soil	0.01	U		0.01
ENDRIN	PEST/PCB	Drum Accumulation Area	94575216SL	SS 3	2'	8080	10/10/1994	Soil	0.01	U		0.01
ENDRIN	PEST/PCB	Drum Accumulation Area	94575217SL	SS 2	2'	8080	10/10/1994	Soil	0.01	U		0.01
ENDRIN	PEST/PCB	Drum Accumulation Area	94575218SL	SS 1	2'	8080	10/10/1994	Soil	0.01	U		0.01
ENDRIN	PEST/PCB	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8080	11/03/1994	Soil	0.06	U		0.06

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
ENDRIN	PEST/PCB	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8080	11/03/1994	Soil	0.01	U		0.01
ENDRIN	PEST/PCB	Cooling Pond	94575229SL	AP-3502	4'-6'	8080	11/07/1994	Soil	0.02	U		0.02
ENDRIN	PEST/PCB	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8080	11/09/1994	Soil	0.01	U		0.01
ENDRIN	PEST/PCB	Cooling Pond	94575240SL	AP-3501	5'-7'	8080	11/11/1994	Soil	0.03	U		0.03
ENDRIN	PEST/PCB	965752BH01	96575225SL	AP-3785	5	8080	10/02/1996	Soil	0.0008	U	0.0008	0.0008
ENDRIN	PEST/PCB	965752BH03	96575231SL-AVG	AP-3787	2.5	8080	10/03/1996	Soil	0.0008	U	0.0008	0.0008
ENDRIN	PEST/PCB	965752BH03	96575233SL	AP-3787	5	8080	10/03/1996	Soil	0.0008	U	0.0008	0.0008
ENDRIN	PEST/PCB	965752BH04	96575238SL	AP-3788	2.5	8080	10/03/1996	Soil	0.0008	U	0.0008	0.0008
ENDRIN	PEST/PCB	965752BH04	96575239SL-AVG	AP-3788	5	8080	10/03/1996	Soil	0.0008	U	0.0008	0.0008
ENDRIN	PEST/PCB	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8080	10/06/1994	Soil	0.01	U		0.01
ENDRIN	PEST/PCB	Drum Accumulation Area	94575203SL	SS 2	6"	8080	10/06/1994	Soil	0.01	U		0.01
ENDRIN	PEST/PCB	Drum Accumulation Area	94575204SL	SS 3	6"	8080	10/06/1994	Soil	0.01	U		0.01
ENDRIN	PEST/PCB	Drum Accumulation Area	94575205SL	SS 4	6"	8080	10/06/1994	Soil	0.01	U		0.01
ENDRIN	PEST/PCB	Drum Accumulation Area	94575206SL	SS 5	6"	8080	10/06/1994	Soil	0.01	U		0.01
ENDRIN	PEST/PCB	Drum Accumulation Area	94575207SL	SS 6	6"	8080	10/06/1994	Soil	0.01	U		0.01
ENDRIN	PEST/PCB	Drum Accumulation Area	94575208SL	SS 7	6"	8080	10/06/1994	Soil	0.05	U		0.05
ENDRIN	PEST/PCB	Drum Accumulation Area	94575209SL	SS 8	6"	8080	10/06/1994	Soil	0.01	U		0.01
ENDRIN	PEST/PCB	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8080	11/03/1994	Soil	0.1	U		0.1
ENDRIN	PEST/PCB	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8080	11/03/1994	Soil	0.01	U		0.01
ENDRIN	PEST/PCB	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8080	11/07/1994	Soil	0.15	U		0.15
ENDRIN	PEST/PCB	Cooling Pond	94575231SL	AP-3503	0-6'	8080	11/08/1994	Soil	0.01	U		0.01
ENDRIN	PEST/PCB	Cooling Pond	94575235SL	AP-3504	0-2'	8080	11/09/1994	Soil	0.02	U		0.02
ENDRIN	PEST/PCB	965752BH03	96575230SL	AP-3787	0	8080	10/03/1996	Soil	0.0008	U	0.0008	0.01
ENDRIN	PEST/PCB	965752BH04	96575236SL-AVG	AP-3788	0	8080	10/03/1996	Soil	0.0008	U	0.0008	0.01
ENDRIN ALDEHYDE	PEST/PCB	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
ENDRIN ALDEHYDE	PEST/PCB	Cooling Pond	94575242SD	SD-B	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
ENDRIN ALDEHYDE	PEST/PCB	Cooling Pond	94575243SD	SD-C	0-6"	8080	12/08/1994	Sediment	0.02	U		0.02
ENDRIN ALDEHYDE	PEST/PCB	Cooling Pond	94575244SD	SD-D	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
ENDRIN ALDEHYDE	PEST/PCB	Cooling Pond	94575245SD	SD-E	0-6"	8080	12/08/1994	Sediment	0.04	U		0.04
ENDRIN ALDEHYDE	PEST/PCB	Cooling Pond	94575246SD	SD-F	0-6"	8080	12/08/1994	Sediment	0.1	U		0.1
ENDRIN ALDEHYDE	PEST/PCB	Cooling Pond	94575247SD	SD-G	0-6"	8080	12/08/1994	Sediment	0.08	U		0.08
ENDRIN ALDEHYDE	PEST/PCB	Cooling Pond	94575248SD	SD-H	0-6"	8080	12/08/1994	Sediment	0.07	U		0.07
ENDRIN ALDEHYDE	PEST/PCB	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8080	09/25/1996	Sediment	0.001	U	0.001	0.03
ENDRIN ALDEHYDE	PEST/PCB	119 ft from DP	96575205SD	96-SD5	----	8080	09/25/1996	Sediment	0.001	U	0.001	0.05
ENDRIN ALDEHYDE	PEST/PCB	147 ft from DP	96575206SD	96-SD6	----	8080	09/25/1996	Sediment	0.0005	U	0.0005	0.04
ENDRIN ALDEHYDE	PEST/PCB	165 ft from DP	96575208SD	96-SD8	----	8080	09/25/1996	Sediment	0.0005	U	0.0005	0.01
ENDRIN ALDEHYDE	PEST/PCB	171 ft from DP (east side)	96575209SD	96-SD9	----	8080	09/25/1996	Sediment	0.0005	U	0.0005	0.02
ENDRIN ALDEHYDE	PEST/PCB	171 ft from DP (west side)	96575207SD	96-SD7	----	8080	09/25/1996	Sediment	0.001	U	0.001	0.04
ENDRIN ALDEHYDE	PEST/PCB	40 ft from DP	96575202SD	96-SD2	----	8080	09/25/1996	Sediment	0.001	U	0.001	0.09
ENDRIN ALDEHYDE	PEST/PCB	79 ft from DP	96575203SD-AVG	96-SD3	----	8080	09/25/1996	Sediment	0.001	U	0.001	0.04
ENDRIN ALDEHYDE	PEST/PCB	Discharge pipe (DP)	96575201SD	96-SD1	----	8080	09/25/1996	Sediment	0.003	J	0.0005	0.01
ENDRIN ALDEHYDE	PEST/PCB	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8080	09/26/1996	Sediment	0.001	U	0.001	0.03
ENDRIN ALDEHYDE	PEST/PCB	Downstream end of 35-752 pond	975752007SD-AVG	96-SD007	0	SW8081	10/21/1997	Sediment	0.0005	U	0.0005	0.06
ENDRIN ALDEHYDE	PEST/PCB	Drum Accumulation Area	94575210SL	SS 8	2'	8080	10/06/1994	Soil	0.04	U		0.04
ENDRIN ALDEHYDE	PEST/PCB	Drum Accumulation Area	94575211SL	SS 7	2'	8080	10/10/1994	Soil	0.01	U		0.01
ENDRIN ALDEHYDE	PEST/PCB	Drum Accumulation Area	94575212SL	SS 6	2'	8080	10/10/1994	Soil	0.02	U		0.02
ENDRIN ALDEHYDE	PEST/PCB	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8080	10/10/1994	Soil	0.01	U		0.01
ENDRIN ALDEHYDE	PEST/PCB	Drum Accumulation Area	94575215SL	SS 4	2'	8080	10/10/1994	Soil	0.01	U		0.01
ENDRIN ALDEHYDE	PEST/PCB	Drum Accumulation Area	94575216SL	SS 3	2'	8080	10/10/1994	Soil	0.01	U		0.01
ENDRIN ALDEHYDE	PEST/PCB	Drum Accumulation Area	94575217SL	SS 2	2'	8080	10/10/1994	Soil	0.01	U		0.01
ENDRIN ALDEHYDE	PEST/PCB	Drum Accumulation Area	94575218SL	SS 1	2'	8080	10/10/1994	Soil	0.01	U		0.01
ENDRIN ALDEHYDE	PEST/PCB	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8080	11/03/1994	Soil	0.06	U		0.06
ENDRIN ALDEHYDE	PEST/PCB	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8080	11/03/1994	Soil	0.01	U		0.01
ENDRIN ALDEHYDE	PEST/PCB	Cooling Pond	94575229SL	AP-3502	4'-6'	8080	11/07/1994	Soil	0.01	U		0.01
ENDRIN ALDEHYDE	PEST/PCB	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8080	11/09/1994	Soil	0.01	U		0.01
ENDRIN ALDEHYDE	PEST/PCB	Cooling Pond	94575240SL	AP-3501	5'-7'	8080	11/11/1994	Soil	0.3	U		0.3
ENDRIN ALDEHYDE	PEST/PCB	965752BH01	96575225SL	AP-3785	5	8080	10/02/1996	Soil	0.0005	U	0.0005	0.0005
ENDRIN ALDEHYDE	PEST/PCB	965752BH03	96575231SL-AVG	AP-3787	2.5	8080	10/03/1996	Soil	0.0005	U	0.0005	0.0005
ENDRIN ALDEHYDE	PEST/PCB	965752BH03	96575233SL	AP-3787	5	8080	10/03/1996	Soil	0.003	U	0.003	0.003
ENDRIN ALDEHYDE	PEST/PCB	965752BH04	96575238SL	AP-3788	2.5	8080	10/03/1996	Soil	0.0005	U	0.0005	0.0005
ENDRIN ALDEHYDE	PEST/PCB	965752BH04	96575239SL-AVG	AP-3788	5	8080	10/03/1996	Soil	0.0005	U	0.0005	0.0005
ENDRIN ALDEHYDE	PEST/PCB	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8080	10/06/1994	Soil	0.01	U		0.01

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
ENDRIN ALDEHYDE	PEST/PCB	Drum Accumulation Area	94575203SL	SS 2	6"	8080	10/06/1994	Soil	0.01	U		0.01
ENDRIN ALDEHYDE	PEST/PCB	Drum Accumulation Area	94575204SL	SS 3	6"	8080	10/06/1994	Soil	0.01	U		0.01
ENDRIN ALDEHYDE	PEST/PCB	Drum Accumulation Area	94575205SL	SS 4	6"	8080	10/06/1994	Soil	0.01	U		0.01
ENDRIN ALDEHYDE	PEST/PCB	Drum Accumulation Area	94575206SL	SS 5	6"	8080	10/06/1994	Soil	0.03	U		0.03
ENDRIN ALDEHYDE	PEST/PCB	Drum Accumulation Area	94575207SL	SS 6	6"	8080	10/06/1994	Soil	0.03	U		0.03
ENDRIN ALDEHYDE	PEST/PCB	Drum Accumulation Area	94575208SL	SS 7	6"	8080	10/06/1994	Soil	0.03	U		0.03
ENDRIN ALDEHYDE	PEST/PCB	Drum Accumulation Area	94575209SL	SS 8	6"	8080	10/06/1994	Soil	0.3	U		0.3
ENDRIN ALDEHYDE	PEST/PCB	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8080	11/03/1994	Soil	0.1	U		0.1
ENDRIN ALDEHYDE	PEST/PCB	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8080	11/03/1994	Soil	0.01	U		0.01
ENDRIN ALDEHYDE	PEST/PCB	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8080	11/07/1994	Soil	0.1	U		0.1
ENDRIN ALDEHYDE	PEST/PCB	Cooling Pond	94575231SL	AP-3503	0-6'	8080	11/08/1994	Soil	0.01	U		0.01
ENDRIN ALDEHYDE	PEST/PCB	Cooling Pond	94575235SL	AP-3504	0-2'	8080	11/09/1994	Soil	0.01	U		0.01
ENDRIN ALDEHYDE	PEST/PCB	965752BH03	96575230SL	AP-3787	0	8080	10/03/1996	Soil	0.0005	U	0.0005	0.03
ENDRIN ALDEHYDE	PEST/PCB	965752BH04	96575236SL-AVG	AP-3788	0	8080	10/03/1996	Soil	0.0005	U	0.0005	0.02
ENDRIN KETONE	PEST/PCB	Downstream end of 35-752 pond	975752007SD-AVG	96-SD007	0	SW8081	10/21/1997	Sediment	0.0005	U	0.0005	0.02
ETHYLBENZENE	VOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
ETHYLBENZENE	VOC	Cooling Pond	94575242SD	SD-B	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
ETHYLBENZENE	VOC	Cooling Pond	94575243SD	SD-C	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
ETHYLBENZENE	VOC	Cooling Pond	94575244SD	SD-D	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
ETHYLBENZENE	VOC	Cooling Pond	94575245SD	SD-E	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
ETHYLBENZENE	VOC	Cooling Pond	94575246SD	SD-F	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
ETHYLBENZENE	VOC	Cooling Pond	94575247SD	SD-G	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
ETHYLBENZENE	VOC	Cooling Pond	94575248SD	SD-H	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
ETHYLBENZENE	VOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
ETHYLBENZENE	VOC	119 ft from DP	96575205SD	96-SD5	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
ETHYLBENZENE	VOC	147 ft from DP	96575206SD	96-SD6	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
ETHYLBENZENE	VOC	165 ft from DP	96575208SD	96-SD8	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
ETHYLBENZENE	VOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
ETHYLBENZENE	VOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8260	09/25/1996	Sediment	0.006	U	0.006	0.015
ETHYLBENZENE	VOC	40 ft from DP	96575202SD	96-SD2	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
ETHYLBENZENE	VOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
ETHYLBENZENE	VOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
ETHYLBENZENE	VOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8260	09/26/1996	Sediment	0.004	U	0.004	0.01
ETHYLBENZENE	VOC	Drum Accumulation Area	94575210SL	SS 8	2'	8260	10/06/1994	Soil	0.005	U		0.005
ETHYLBENZENE	VOC	Drum Accumulation Area	94575211SL	SS 7	2'	8260	10/10/1994	Soil	0.005	U		0.005
ETHYLBENZENE	VOC	Drum Accumulation Area	94575212SL	SS 6	2'	8260	10/10/1994	Soil	0.005	U		0.005
ETHYLBENZENE	VOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8260	10/10/1994	Soil	0.005	U		0.005
ETHYLBENZENE	VOC	Drum Accumulation Area	94575215SL	SS 4	2'	8260	10/10/1994	Soil	0.005	U		0.005
ETHYLBENZENE	VOC	Drum Accumulation Area	94575216SL	SS 3	2'	8260	10/10/1994	Soil	0.005	U		0.005
ETHYLBENZENE	VOC	Drum Accumulation Area	94575217SL	SS 2	2'	8260	10/10/1994	Soil	0.006	=		0.005
ETHYLBENZENE	VOC	Drum Accumulation Area	94575218SL	SS 1	2'	8260	10/10/1994	Soil	0.005	U		0.005
ETHYLBENZENE	VOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8260	11/03/1994	Soil	0.005	U		0.005
ETHYLBENZENE	VOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8260	11/03/1994	Soil	0.005	U		0.005
ETHYLBENZENE	VOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8260	11/07/1994	Soil	0.005	U		0.005
ETHYLBENZENE	VOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8260	11/09/1994	Soil	0.005	U		0.005
ETHYLBENZENE	VOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8260	11/11/1994	Soil	0.005	U		0.005
ETHYLBENZENE	VOC	965752BH01	96575225SL	AP-3785	5	8260	10/02/1996	Soil	0.002	U	0.002	0.002
ETHYLBENZENE	VOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
ETHYLBENZENE	VOC	965752BH04	96575238SL	AP-3788	2.5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
ETHYLBENZENE	VOC	965752BH04	96575239SL-AVG	AP-3788	5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
ETHYLBENZENE	VOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8260	10/06/1994	Soil	0.005	U		0.005
ETHYLBENZENE	VOC	Drum Accumulation Area	94575203SL	SS 2	6"	8260	10/06/1994	Soil	0.005	U		0.005
ETHYLBENZENE	VOC	Drum Accumulation Area	94575204SL	SS 3	6"	8260	10/06/1994	Soil	0.005	U		0.005
ETHYLBENZENE	VOC	Drum Accumulation Area	94575205SL	SS 4	6"	8260	10/06/1994	Soil	0.005	U		0.005
ETHYLBENZENE	VOC	Drum Accumulation Area	94575206SL	SS 5	6"	8260	10/06/1994	Soil	0.005	U		0.005
ETHYLBENZENE	VOC	Drum Accumulation Area	94575207SL	SS 6	6"	8260	10/06/1994	Soil	0.005	U		0.005
ETHYLBENZENE	VOC	Drum Accumulation Area	94575208SL	SS 7	6"	8260	10/06/1994	Soil	0.005	U		0.005
ETHYLBENZENE	VOC	Drum Accumulation Area	94575209SL	SS 8	6"	8260	10/06/1994	Soil	0.005	U		0.005
ETHYLBENZENE	VOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8260	11/03/1994	Soil	0.005	U		0.005
ETHYLBENZENE	VOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8260	11/03/1994	Soil	0.005	U		0.005
ETHYLBENZENE	VOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8260	11/07/1994	Soil	0.005	U		0.005
ETHYLBENZENE	VOC	Cooling Pond	94575231SL	AP-3503	0-6'	8260	11/08/1994	Soil	0.005	U		0.005

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
ETHYLBENZENE	VOC	Cooling Pond	94575235SL	AP-3504	0-2'	8260	11/09/1994	Soil	0.005	U		0.005
ETHYLBENZENE	VOC	965752BH03	96575230SL	AP-3787	0	8260	10/03/1996	Soil	0.002	U	0.002	0.005
ETHYLBENZENE	VOC	965752BH04	96575236SL-AVG	AP-3788	0	8260	10/03/1996	Soil	0.002	U	0.002	0.005
ETHYLBENZENE	VOC	Tank 1109; BH-12	90FRUST86 soil	AP-2982	5-6.5'	8020	08/21/1990	Soil	0.012	U		0.012
ETHYLBENZENE	VOC	Tank 1109; BH-13	90FRUST90 soil	AP-2983	5-5.5'	8020	08/21/1990	Soil	0.011	U		0.011
FLUORANTHENE	SVOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8270	12/08/1994	Sediment	0.3	UD		0.3
FLUORANTHENE	SVOC	Cooling Pond	94575242SD	SD-B	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
FLUORANTHENE	SVOC	Cooling Pond	94575243SD	SD-C	0-6"	8270	12/08/1994	Sediment	4	U		4
FLUORANTHENE	SVOC	Cooling Pond	94575244SD	SD-D	0-6"	8270	12/08/1994	Sediment	0.5	=		0.3
FLUORANTHENE	SVOC	Cooling Pond	94575245SD	SD-E	0-6"	8270	12/08/1994	Sediment	3.9	=		0.3
FLUORANTHENE	SVOC	Cooling Pond	94575246SD	SD-F	0-6"	8270	12/08/1994	Sediment	2.1	=		0.3
FLUORANTHENE	SVOC	Cooling Pond	94575247SD	SD-G	0-6"	8270	12/08/1994	Sediment	2.3	=		0.3
FLUORANTHENE	SVOC	Cooling Pond	94575248SD	SD-H	0-6"	8270	12/08/1994	Sediment	4.4	=		0.3
FLUORANTHENE	SVOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8270	09/25/1996	Sediment	0.4	U	0.4	3
FLUORANTHENE	SVOC	119 ft from DP	96575205SD	96-SD5	----	8270	09/25/1996	Sediment	0.7	=	0.09	0.7
FLUORANTHENE	SVOC	147 ft from DP	96575206SD	96-SD6	----	8270	09/25/1996	Sediment	0.5	=	0.04	0.3
FLUORANTHENE	SVOC	165 ft from DP	96575208SD	96-SD8	----	8270	09/25/1996	Sediment	1.9	=	0.04	0.3
FLUORANTHENE	SVOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8270	09/25/1996	Sediment	0.4	=	0.04	0.3
FLUORANTHENE	SVOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8270	09/25/1996	Sediment	0.3	J	0.08	0.7
FLUORANTHENE	SVOC	40 ft from DP	96575202SD	96-SD2	----	8270	09/25/1996	Sediment	5.7	=	0.09	0.7
FLUORANTHENE	SVOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8270	09/25/1996	Sediment	0.75	=	0.09	0.7
FLUORANTHENE	SVOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8270	09/25/1996	Sediment	0.04	U	0.04	0.3
FLUORANTHENE	SVOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8270	09/26/1996	Sediment	0.7	J	0.2	1.2
FLUORANTHENE	SVOC	Downstream end of 35-752 pond	975752007SD-AVG	96-SD007	0	SIM	10/21/1997	Sediment	0.6955	=	0.0006	0.005
FLUORANTHENE	SVOC	Drum Accumulation Area	94575210SL	SS 8	2'	8270	10/06/1994	Soil	0.3	U		0.3
FLUORANTHENE	SVOC	Drum Accumulation Area	94575211SL	SS 7	2'	8270	10/10/1994	Soil	0.3	U		0.3
FLUORANTHENE	SVOC	Drum Accumulation Area	94575212SL	SS 6	2'	8270	10/10/1994	Soil	0.3	U		0.3
FLUORANTHENE	SVOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8270	10/10/1994	Soil	0.5	U		0.5
FLUORANTHENE	SVOC	Drum Accumulation Area	94575215SL	SS 4	2'	8270	10/10/1994	Soil	0.3	U		0.3
FLUORANTHENE	SVOC	Drum Accumulation Area	94575216SL	SS 3	2'	8270	10/10/1994	Soil	0.3	U		0.3
FLUORANTHENE	SVOC	Drum Accumulation Area	94575217SL	SS 2	2'	8270	10/10/1994	Soil	0.3	U		0.3
FLUORANTHENE	SVOC	Drum Accumulation Area	94575218SL	SS 1	2'	8270	10/10/1994	Soil	0.3	U		0.3
FLUORANTHENE	SVOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8270	11/03/1994	Soil	0.73	=		0.3
FLUORANTHENE	SVOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8270	11/03/1994	Soil	0.3	U		0.3
FLUORANTHENE	SVOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8270	11/07/1994	Soil	0.3	U		0.3
FLUORANTHENE	SVOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8270	11/09/1994	Soil	0.3	U		0.3
FLUORANTHENE	SVOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8270	11/11/1994	Soil	0.3	U		0.3
FLUORANTHENE	SVOC	965752BH01	96575225SL	AP-3785	5	8270	10/02/1996	Soil	0.04	U	0.04	0.04
FLUORANTHENE	SVOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8270	10/03/1996	Soil	0.08	U	0.08	0.08
FLUORANTHENE	SVOC	965752BH03	96575233SL	AP-3787	5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
FLUORANTHENE	SVOC	965752BH04	96575238SL	AP-3788	2.5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
FLUORANTHENE	SVOC	965752BH04	96575239SL-AVG	AP-3788	5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
FLUORANTHENE	SVOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8270	10/06/1994	Soil	0.3	U		0.3
FLUORANTHENE	SVOC	Drum Accumulation Area	94575203SL	SS 2	6"	8270	10/06/1994	Soil	0.3	U		0.3
FLUORANTHENE	SVOC	Drum Accumulation Area	94575204SL	SS 3	6"	8270	10/06/1994	Soil	0.3	U		0.3
FLUORANTHENE	SVOC	Drum Accumulation Area	94575205SL	SS 4	6"	8270	10/06/1994	Soil	0.3	U		0.3
FLUORANTHENE	SVOC	Drum Accumulation Area	94575206SL	SS 5	6"	8270	10/06/1994	Soil	0.3	U		0.3
FLUORANTHENE	SVOC	Drum Accumulation Area	94575207SL	SS 6	6"	8270	10/06/1994	Soil	0.3	U		0.3
FLUORANTHENE	SVOC	Drum Accumulation Area	94575208SL	SS 7	6"	8270	10/06/1994	Soil	0.3	U		0.3
FLUORANTHENE	SVOC	Drum Accumulation Area	94575209SL	SS 8	6"	8270	10/06/1994	Soil	0.8	=		0.3
FLUORANTHENE	SVOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8270	11/03/1994	Soil	0.6	U		0.6
FLUORANTHENE	SVOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8270	11/03/1994	Soil	0.6	U		0.6
FLUORANTHENE	SVOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8270	11/07/1994	Soil	0.3	U		0.3
FLUORANTHENE	SVOC	Cooling Pond	94575231SL	AP-3503	0-6'	8270	11/08/1994	Soil	0.3	U		0.3
FLUORANTHENE	SVOC	Cooling Pond	94575235SL	AP-3504	0-2'	8270	11/09/1994	Soil	0.3	U		0.3
FLUORANTHENE	SVOC	965752BH03	96575230SL	AP-3787	0	8270	10/03/1996	Soil	0.4	=	0.04	0.3
FLUORANTHENE	SVOC	965752BH04	96575236SL-AVG	AP-3788	0	8270	10/03/1996	Soil	0.04	U	0.04	0.3
FLUORENE	SVOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
FLUORENE	SVOC	Cooling Pond	94575242SD	SD-B	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
FLUORENE	SVOC	Cooling Pond	94575243SD	SD-C	0-6"	8270	12/08/1994	Sediment	4	U		4
FLUORENE	SVOC	Cooling Pond	94575244SD	SD-D	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
FLUORENE	SVOC	Cooling Pond	94575245SD	SD-E	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
FLUORENE	SVOC	Cooling Pond	94575246SD	SD-F	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
FLUORENE	SVOC	Cooling Pond	94575247SD	SD-G	0-6"	8270	12/08/1994	Sediment	0.8	U		0.8
FLUORENE	SVOC	Cooling Pond	94575248SD	SD-H	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
FLUORENE	SVOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8270	09/25/1996	Sediment	0.4	U	0.4	3
FLUORENE	SVOC	119 ft from DP	96575205SD	96-SD5	----	8270	09/25/1996	Sediment	0.09	U	0.09	0.7
FLUORENE	SVOC	147 ft from DP	96575206SD	96-SD6	----	8270	09/25/1996	Sediment	0.04	U	0.04	0.3
FLUORENE	SVOC	165 ft from DP	96575208SD	96-SD8	----	8270	09/25/1996	Sediment	0.1	J	0.04	0.3
FLUORENE	SVOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8270	09/25/1996	Sediment	0.04	U	0.04	0.3
FLUORENE	SVOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8270	09/25/1996	Sediment	0.08	U	0.08	0.7
FLUORENE	SVOC	40 ft from DP	96575202SD	96-SD2	----	8270	09/25/1996	Sediment	0.09	U	0.09	0.7
FLUORENE	SVOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8270	09/25/1996	Sediment	0.09	U	0.09	0.7
FLUORENE	SVOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8270	09/25/1996	Sediment	0.04	U	0.04	0.3
FLUORENE	SVOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8270	09/26/1996	Sediment	0.2	U	0.2	1.2
FLUORENE	SVOC	Downstream end of 35-752 pond	975752007SD-AVG	96-SD007	0	SIM	10/21/1997	Sediment	0.037	=	0.0005	0.005
FLUORENE	SVOC	Drum Accumulation Area	94575210SL	SS 8	2'	8270	10/06/1994	Soil	0.3	U		0.3
FLUORENE	SVOC	Drum Accumulation Area	94575211SL	SS 7	2'	8270	10/10/1994	Soil	0.3	U		0.3
FLUORENE	SVOC	Drum Accumulation Area	94575212SL	SS 6	2'	8270	10/10/1994	Soil	0.3	U		0.3
FLUORENE	SVOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8270	10/10/1994	Soil	0.5	U		0.5
FLUORENE	SVOC	Drum Accumulation Area	94575215SL	SS 4	2'	8270	10/10/1994	Soil	0.3	U		0.3
FLUORENE	SVOC	Drum Accumulation Area	94575216SL	SS 3	2'	8270	10/10/1994	Soil	0.3	U		0.3
FLUORENE	SVOC	Drum Accumulation Area	94575217SL	SS 2	2'	8270	10/10/1994	Soil	0.3	U		0.3
FLUORENE	SVOC	Drum Accumulation Area	94575218SL	SS 1	2'	8270	10/10/1994	Soil	0.3	U		0.3
FLUORENE	SVOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8270	11/03/1994	Soil	0.3	U		0.3
FLUORENE	SVOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8270	11/03/1994	Soil	0.3	U		0.3
FLUORENE	SVOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8270	11/07/1994	Soil	0.3	U		0.3
FLUORENE	SVOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8270	11/09/1994	Soil	0.3	U		0.3
FLUORENE	SVOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8270	11/11/1994	Soil	0.3	U		0.3
FLUORENE	SVOC	965752BH01	96575225SL	AP-3785	5	8270	10/02/1996	Soil	0.04	U	0.04	0.04
FLUORENE	SVOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8270	10/03/1996	Soil	0.08	U	0.08	0.08
FLUORENE	SVOC	965752BH03	96575233SL	AP-3787	5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
FLUORENE	SVOC	965752BH04	96575238SL	AP-3788	2.5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
FLUORENE	SVOC	965752BH04	96575239SL-AVG	AP-3788	5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
FLUORENE	SVOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8270	10/06/1994	Soil	0.3	U		0.3
FLUORENE	SVOC	Drum Accumulation Area	94575203SL	SS 2	6"	8270	10/06/1994	Soil	0.3	U		0.3
FLUORENE	SVOC	Drum Accumulation Area	94575204SL	SS 3	6"	8270	10/06/1994	Soil	0.3	U		0.3
FLUORENE	SVOC	Drum Accumulation Area	94575205SL	SS 4	6"	8270	10/06/1994	Soil	0.3	U		0.3
FLUORENE	SVOC	Drum Accumulation Area	94575206SL	SS 5	6"	8270	10/06/1994	Soil	0.3	U		0.3
FLUORENE	SVOC	Drum Accumulation Area	94575207SL	SS 6	6"	8270	10/06/1994	Soil	0.3	U		0.3
FLUORENE	SVOC	Drum Accumulation Area	94575208SL	SS 7	6"	8270	10/06/1994	Soil	0.3	U		0.3
FLUORENE	SVOC	Drum Accumulation Area	94575209SL	SS 8	6"	8270	10/06/1994	Soil	0.3	U		0.3
FLUORENE	SVOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8270	11/03/1994	Soil	0.6	U		0.6
FLUORENE	SVOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8270	11/03/1994	Soil	0.6	U		0.6
FLUORENE	SVOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8270	11/07/1994	Soil	0.3	U		0.3
FLUORENE	SVOC	Cooling Pond	94575231SL	AP-3503	0-6'	8270	11/08/1994	Soil	0.3	U		0.3
FLUORENE	SVOC	Cooling Pond	94575235SL	AP-3504	0-2'	8270	11/09/1994	Soil	0.3	U		0.3
FLUORENE	SVOC	965752BH03	96575230SL	AP-3787	0	8270	10/03/1996	Soil	0.04	U	0.04	0.3
FLUORENE	SVOC	965752BH04	96575236SL-AVG	AP-3788	0	8270	10/03/1996	Soil	0.04	U	0.04	0.3
GAMMA-CHLORDANE	PEST/PCB	Downstream end of 35-752 pond	975752007SD-AVG	96-SD007	0	SW8081	10/21/1997	Sediment	0.0008	U	0.0008	0.02
GASOLINE RANGE ORGANICS	TPH	Bldg. 35-752, Periphery Road	02B752132SL	P1	1.5 - 2	AK101	07/30/2002	Soil	0.27	J	0.242	1.73
GASOLINE RANGE ORGANICS	TPH	Bldg. 35-752, Periphery Road	02B752202SL	P24	1 - 1.5	AK101	07/30/2002	Soil	0.32	U	0.32	2.29
GASOLINE RANGE ORGANICS	TPH	Bldg. 35-752, Periphery Road	02B752215SL	P28	1.5 - 2	AK101	07/30/2002	Soil	0.319	J	0.193	1.38
GASOLINE RANGE ORGANICS	TPH	Bldg. 35-752, Periphery Road	02B752220SL	P30	1 - 1.5	AK101	07/30/2002	Soil	0.212	U	0.212	1.51
GASOLINE RANGE ORGANICS	TPH	Bldg. 35-752, Periphery Road	02B752157SL-AVG	P10	0 - 0.5	AK101	07/30/2002	Soil	0.353	J		
GASOLINE RANGE ORGANICS	TPH	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	AK101	09/25/1996	Sediment	8	U	8	10
GASOLINE RANGE ORGANICS	TPH	119 ft from DP	96575205SD	96-SD5	----	AK101	09/25/1996	Sediment	8	U	8	10
GASOLINE RANGE ORGANICS	TPH	147 ft from DP	96575206SD	96-SD6	----	AK101	09/25/1996	Sediment	4	U	4	5
GASOLINE RANGE ORGANICS	TPH	165 ft from DP	96575208SD	96-SD8	----	AK101	09/25/1996	Sediment	8	U	8	10
GASOLINE RANGE ORGANICS	TPH	171 ft from DP (east side)	96575209SD	96-SD9	----	AK101	09/25/1996	Sediment	8	U	8	10
GASOLINE RANGE ORGANICS	TPH	171 ft from DP (west side)	96575207SD	96-SD7	----	AK101	09/25/1996	Sediment	8	U	8	10
GASOLINE RANGE ORGANICS	TPH	40 ft from DP	96575202SD	96-SD2	----	AK101	09/25/1996	Sediment	8	U	8	10
GASOLINE RANGE ORGANICS	TPH	79 ft from DP	96575203SD-AVG	96-SD3	----	AK101	09/25/1996	Sediment	8	U	8	10
GASOLINE RANGE ORGANICS	TPH	Discharge pipe (DP)	96575201SD	96-SD1	----	AK101	09/25/1996	Sediment	4	U	4	5

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Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
GASOLINE RANGE ORGANICS	TPH	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	AK101	09/26/1996	Sediment	8	U	8	10
GASOLINE RANGE ORGANICS	TPH	Drum Accumulation Area	94575210SL	SS 8	2'	8015	10/06/1994	Soil	5	U		5
GASOLINE RANGE ORGANICS	TPH	Drum Accumulation Area	94575211SL	SS 7	2'	8015	10/10/1994	Soil	5	U		5
GASOLINE RANGE ORGANICS	TPH	Drum Accumulation Area	94575212SL	SS 6	2'	8015	10/10/1994	Soil	5	U		5
GASOLINE RANGE ORGANICS	TPH	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8015	10/10/1994	Soil	5	U		5
GASOLINE RANGE ORGANICS	TPH	Drum Accumulation Area	94575215SL	SS 4	2'	8015	10/10/1994	Soil	5	U		5
GASOLINE RANGE ORGANICS	TPH	Drum Accumulation Area	94575216SL	SS 3	2'	8015	10/10/1994	Soil	5	U		5
GASOLINE RANGE ORGANICS	TPH	Drum Accumulation Area	94575217SL	SS 2	2'	8015	10/10/1994	Soil	5	U		5
GASOLINE RANGE ORGANICS	TPH	Drum Accumulation Area	94575218SL	SS 1	2'	8015	10/10/1994	Soil	5	U		5
GASOLINE RANGE ORGANICS	TPH	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8015	11/03/1994	Soil	5	U		5
GASOLINE RANGE ORGANICS	TPH	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8015	11/03/1994	Soil	5	U		5
GASOLINE RANGE ORGANICS	TPH	Cooling Pond	94575229SL	AP-3502	4'-6'	8015	11/07/1994	Soil	5	U		5
GASOLINE RANGE ORGANICS	TPH	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8015	11/09/1994	Soil	5	U		5
GASOLINE RANGE ORGANICS	TPH	Cooling Pond	94575240SL	AP-3501	5'-7'	8015	11/11/1994	Soil	5	U		5
GASOLINE RANGE ORGANICS	TPH	965752BH01	96575225SL	AP-3785	5	AK101	10/02/1996	Soil	4	U J	4	4
GASOLINE RANGE ORGANICS	TPH	965752BH03	96575231SL-AVG	AP-3787	2.5	AK101	10/03/1996	Soil	4	U	4	4
GASOLINE RANGE ORGANICS	TPH	965752BH04	96575238SL	AP-3788	2.5	AK101	10/03/1996	Soil	4	U	4	4
GASOLINE RANGE ORGANICS	TPH	965752BH04	96575239SL-AVG	AP-3788	5	AK101	10/03/1996	Soil	4	U J	4	4
GASOLINE RANGE ORGANICS	TPH	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8015	10/06/1994	Soil	5	U		5
GASOLINE RANGE ORGANICS	TPH	Drum Accumulation Area	94575203SL	SS 2	6"	8015	10/06/1994	Soil	5	U		5
GASOLINE RANGE ORGANICS	TPH	Drum Accumulation Area	94575204SL	SS 3	6"	8015	10/06/1994	Soil	5	U		5
GASOLINE RANGE ORGANICS	TPH	Drum Accumulation Area	94575205SL	SS 4	6"	8015	10/06/1994	Soil	5	U		5
GASOLINE RANGE ORGANICS	TPH	Drum Accumulation Area	94575206SL	SS 5	6"	8015	10/06/1994	Soil	5	U		5
GASOLINE RANGE ORGANICS	TPH	Drum Accumulation Area	94575207SL	SS 6	6"	8015	10/06/1994	Soil	5	U		5
GASOLINE RANGE ORGANICS	TPH	Drum Accumulation Area	94575208SL	SS 7	6"	8015	10/06/1994	Soil	5	U		5
GASOLINE RANGE ORGANICS	TPH	Drum Accumulation Area	94575209SL	SS 8	6"	8015	10/06/1994	Soil	5	U		5
GASOLINE RANGE ORGANICS	TPH	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8015	11/03/1994	Soil	5	U		5
GASOLINE RANGE ORGANICS	TPH	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8015	11/03/1994	Soil	5	U		5
GASOLINE RANGE ORGANICS	TPH	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8015	11/07/1994	Soil	6.5	UD		5
GASOLINE RANGE ORGANICS	TPH	Cooling Pond	94575231SL	AP-3503	0-6'	8015	11/08/1994	Soil	5	U		5
GASOLINE RANGE ORGANICS	TPH	Cooling Pond	94575235SL	AP-3504	0-2'	8015	11/09/1994	Soil	5	U		5
GASOLINE RANGE ORGANICS	TPH	965752BH03	96575230SL	AP-3787	0	AK101	10/03/1996	Soil	4	U	4	5
GASOLINE RANGE ORGANICS	TPH	965752BH04	96575236SL-AVG	AP-3788	0	AK101	10/03/1996	Soil	4	U J	4	5
GASOLINE RANGE ORGANICS	TPH	Tank 1109; BH-12	90FRUST86 soil	AP-2982	5-6.5'	8015m	08/21/1990	Soil	2.1	U		2.1
GASOLINE RANGE ORGANICS	TPH	Tank 1109; BH-13	90FRUST90 soil	AP-2983	5-5.5'	8015m	08/21/1990	Soil	18	U		18
HEPTACHLOR	PEST/PCB	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
HEPTACHLOR	PEST/PCB	Cooling Pond	94575242SD	SD-B	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
HEPTACHLOR	PEST/PCB	Cooling Pond	94575243SD	SD-C	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
HEPTACHLOR	PEST/PCB	Cooling Pond	94575244SD	SD-D	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
HEPTACHLOR	PEST/PCB	Cooling Pond	94575245SD	SD-E	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
HEPTACHLOR	PEST/PCB	Cooling Pond	94575246SD	SD-F	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
HEPTACHLOR	PEST/PCB	Cooling Pond	94575247SD	SD-G	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
HEPTACHLOR	PEST/PCB	Cooling Pond	94575248SD	SD-H	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
HEPTACHLOR	PEST/PCB	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8080	09/25/1996	Sediment	0.001	U	0.001	0.02
HEPTACHLOR	PEST/PCB	119 ft from DP	96575205SD	96-SD5	----	8080	09/25/1996	Sediment	0.001	U	0.001	0.02
HEPTACHLOR	PEST/PCB	147 ft from DP	96575206SD	96-SD6	----	8080	09/25/1996	Sediment	0.0005	U	0.0005	0.01
HEPTACHLOR	PEST/PCB	165 ft from DP	96575208SD	96-SD8	----	8080	09/25/1996	Sediment	0.0005	U	0.0005	0.01
HEPTACHLOR	PEST/PCB	171 ft from DP (east side)	96575209SD	96-SD9	----	8080	09/25/1996	Sediment	0.0005	U	0.0005	0.01
HEPTACHLOR	PEST/PCB	171 ft from DP (west side)	96575207SD	96-SD7	----	8080	09/25/1996	Sediment	0.001	U	0.001	0.02
HEPTACHLOR	PEST/PCB	40 ft from DP	96575202SD	96-SD2	----	8080	09/25/1996	Sediment	0.001	U	0.001	0.02
HEPTACHLOR	PEST/PCB	79 ft from DP	96575203SD-AVG	96-SD3	----	8080	09/25/1996	Sediment	0.001	U	0.001	0.02
HEPTACHLOR	PEST/PCB	Discharge pipe (DP)	96575201SD	96-SD1	----	8080	09/25/1996	Sediment	0.0005	U	0.0005	0.01
HEPTACHLOR	PEST/PCB	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8080	09/26/1996	Sediment	0.001	U	0.001	0.02
HEPTACHLOR	PEST/PCB	Downstream end of 35-752 pond	975752007SD-AVG	96-SD007	0	SW8081	10/21/1997	Sediment	0.0005	U	0.0005	0.02
HEPTACHLOR	PEST/PCB	Drum Accumulation Area	94575210SL	SS 8	2'	8080	10/06/1994	Soil	0.01	U		0.01
HEPTACHLOR	PEST/PCB	Drum Accumulation Area	94575211SL	SS 7	2'	8080	10/10/1994	Soil	0.01	U		0.01
HEPTACHLOR	PEST/PCB	Drum Accumulation Area	94575212SL	SS 6	2'	8080	10/10/1994	Soil	0.01	U		0.01
HEPTACHLOR	PEST/PCB	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8080	10/10/1994	Soil	0.01	U		0.01
HEPTACHLOR	PEST/PCB	Drum Accumulation Area	94575215SL	SS 4	2'	8080	10/10/1994	Soil	0.01	U		0.01
HEPTACHLOR	PEST/PCB	Drum Accumulation Area	94575216SL	SS 3	2'	8080	10/10/1994	Soil	0.01	U		0.01
HEPTACHLOR	PEST/PCB	Drum Accumulation Area	94575217SL	SS 2	2'	8080	10/10/1994	Soil	0.01	U		0.01
HEPTACHLOR	PEST/PCB	Drum Accumulation Area	94575218SL	SS 1	2'	8080	10/10/1994	Soil	0.01	U		0.01

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
HEPTACHLOR	PEST/PCB	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8080	11/03/1994	Soil	0.01	U		0.01
HEPTACHLOR	PEST/PCB	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8080	11/03/1994	Soil	0.01	U		0.01
HEPTACHLOR	PEST/PCB	Cooling Pond	94575229SL	AP-3502	4'-6'	8080	11/07/1994	Soil	0.01	U		0.01
HEPTACHLOR	PEST/PCB	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8080	11/09/1994	Soil	0.01	U		0.01
HEPTACHLOR	PEST/PCB	Cooling Pond	94575240SL	AP-3501	5'-7'	8080	11/11/1994	Soil	0.01	U		0.01
HEPTACHLOR	PEST/PCB	965752BH01	96575225SL	AP-3785	5	8080	10/02/1996	Soil	0.0005	U	0.0005	0.0005
HEPTACHLOR	PEST/PCB	965752BH03	96575231SL-AVG	AP-3787	2.5	8080	10/03/1996	Soil	0.0005	U	0.0005	0.0005
HEPTACHLOR	PEST/PCB	965752BH03	96575233SL	AP-3787	5	8080	10/03/1996	Soil	0.0005	U	0.0005	0.0005
HEPTACHLOR	PEST/PCB	965752BH04	96575238SL	AP-3788	2.5	8080	10/03/1996	Soil	0.0005	U	0.0005	0.0005
HEPTACHLOR	PEST/PCB	965752BH04	96575239SL-AVG	AP-3788	5	8080	10/03/1996	Soil	0.0005	U	0.0005	0.0005
HEPTACHLOR	PEST/PCB	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8080	10/06/1994	Soil	0.01	U		0.01
HEPTACHLOR	PEST/PCB	Drum Accumulation Area	94575203SL	SS 2	6"	8080	10/06/1994	Soil	0.01	U		0.01
HEPTACHLOR	PEST/PCB	Drum Accumulation Area	94575204SL	SS 3	6"	8080	10/06/1994	Soil	0.01	U		0.01
HEPTACHLOR	PEST/PCB	Drum Accumulation Area	94575205SL	SS 4	6"	8080	10/06/1994	Soil	0.01	U		0.01
HEPTACHLOR	PEST/PCB	Drum Accumulation Area	94575206SL	SS 5	6"	8080	10/06/1994	Soil	0.01	U		0.01
HEPTACHLOR	PEST/PCB	Drum Accumulation Area	94575207SL	SS 6	6"	8080	10/06/1994	Soil	0.01	U		0.01
HEPTACHLOR	PEST/PCB	Drum Accumulation Area	94575208SL	SS 7	6"	8080	10/06/1994	Soil	0.01	U		0.01
HEPTACHLOR	PEST/PCB	Drum Accumulation Area	94575209SL	SS 8	6"	8080	10/06/1994	Soil	0.01	U		0.01
HEPTACHLOR	PEST/PCB	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8080	11/03/1994	Soil	0.01	U		0.01
HEPTACHLOR	PEST/PCB	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8080	11/03/1994	Soil	0.01	U		0.01
HEPTACHLOR	PEST/PCB	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8080	11/07/1994	Soil	0.01	U		0.01
HEPTACHLOR	PEST/PCB	Cooling Pond	94575231SL	AP-3503	0-6'	8080	11/08/1994	Soil	0.01	U		0.01
HEPTACHLOR	PEST/PCB	Cooling Pond	94575235SL	AP-3504	0-2'	8080	11/09/1994	Soil	0.01	U		0.01
HEPTACHLOR	PEST/PCB	965752BH03	96575230SL	AP-3787	0	8080	10/03/1996	Soil	0.0005	U	0.0005	0.01
HEPTACHLOR	PEST/PCB	965752BH04	96575236SL-AVG	AP-3788	0	8080	10/03/1996	Soil	0.0005	U	0.0005	0.01
HEPTACHLOR EPOXIDE	PEST/PCB	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
HEPTACHLOR EPOXIDE	PEST/PCB	Cooling Pond	94575242SD	SD-B	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
HEPTACHLOR EPOXIDE	PEST/PCB	Cooling Pond	94575243SD	SD-C	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
HEPTACHLOR EPOXIDE	PEST/PCB	Cooling Pond	94575244SD	SD-D	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
HEPTACHLOR EPOXIDE	PEST/PCB	Cooling Pond	94575245SD	SD-E	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
HEPTACHLOR EPOXIDE	PEST/PCB	Cooling Pond	94575246SD	SD-F	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
HEPTACHLOR EPOXIDE	PEST/PCB	Cooling Pond	94575247SD	SD-G	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
HEPTACHLOR EPOXIDE	PEST/PCB	Cooling Pond	94575248SD	SD-H	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
HEPTACHLOR EPOXIDE	PEST/PCB	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8080	09/25/1996	Sediment	0.002	U	0.002	0.02
HEPTACHLOR EPOXIDE	PEST/PCB	119 ft from DP	96575205SD	96-SD5	----	8080	09/25/1996	Sediment	0.002	U	0.002	0.02
HEPTACHLOR EPOXIDE	PEST/PCB	147 ft from DP	96575206SD	96-SD6	----	8080	09/25/1996	Sediment	0.0006	U	0.0006	0.01
HEPTACHLOR EPOXIDE	PEST/PCB	165 ft from DP	96575208SD	96-SD8	----	8080	09/25/1996	Sediment	0.0006	U	0.0006	0.01
HEPTACHLOR EPOXIDE	PEST/PCB	171 ft from DP (east side)	96575209SD	96-SD9	----	8080	09/25/1996	Sediment	0.0006	U	0.0006	0.01
HEPTACHLOR EPOXIDE	PEST/PCB	171 ft from DP (west side)	96575207SD	96-SD7	----	8080	09/25/1996	Sediment	0.002	U	0.002	0.02
HEPTACHLOR EPOXIDE	PEST/PCB	40 ft from DP	96575202SD	96-SD2	----	8080	09/25/1996	Sediment	0.002	U	0.002	0.02
HEPTACHLOR EPOXIDE	PEST/PCB	79 ft from DP	96575203SD-AVG	96-SD3	----	8080	09/25/1996	Sediment	0.002	U	0.002	0.02
HEPTACHLOR EPOXIDE	PEST/PCB	Discharge pipe (DP)	96575201SD	96-SD1	----	8080	09/25/1996	Sediment	0.0006	U	0.0006	0.01
HEPTACHLOR EPOXIDE	PEST/PCB	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8080	09/26/1996	Sediment	0.002	U	0.002	0.02
HEPTACHLOR EPOXIDE	PEST/PCB	Downstream end of 35-752 pond	975752007SD-AVG	96-SD007	0	SW8081	10/21/1997	Sediment	0.0005	U	0.0005	0.02
HEPTACHLOR EPOXIDE	PEST/PCB	Drum Accumulation Area	94575210SL	SS 8	2'	8080	10/06/1994	Soil	0.01	U		0.01
HEPTACHLOR EPOXIDE	PEST/PCB	Drum Accumulation Area	94575211SL	SS 7	2'	8080	10/10/1994	Soil	0.01	U		0.01
HEPTACHLOR EPOXIDE	PEST/PCB	Drum Accumulation Area	94575212SL	SS 6	2'	8080	10/10/1994	Soil	0.01	U		0.01
HEPTACHLOR EPOXIDE	PEST/PCB	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8080	10/10/1994	Soil	0.01	U		0.01
HEPTACHLOR EPOXIDE	PEST/PCB	Drum Accumulation Area	94575215SL	SS 4	2'	8080	10/10/1994	Soil	0.01	U		0.01
HEPTACHLOR EPOXIDE	PEST/PCB	Drum Accumulation Area	94575216SL	SS 3	2'	8080	10/10/1994	Soil	0.01	U		0.01
HEPTACHLOR EPOXIDE	PEST/PCB	Drum Accumulation Area	94575217SL	SS 2	2'	8080	10/10/1994	Soil	0.01	U		0.01
HEPTACHLOR EPOXIDE	PEST/PCB	Drum Accumulation Area	94575218SL	SS 1	2'	8080	10/10/1994	Soil	0.01	U		0.01
HEPTACHLOR EPOXIDE	PEST/PCB	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8080	11/03/1994	Soil	0.06	U		0.06
HEPTACHLOR EPOXIDE	PEST/PCB	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8080	11/03/1994	Soil	0.01	U		0.01
HEPTACHLOR EPOXIDE	PEST/PCB	Cooling Pond	94575229SL	AP-3502	4'-6'	8080	11/07/1994	Soil	0.01	U		0.01
HEPTACHLOR EPOXIDE	PEST/PCB	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8080	11/09/1994	Soil	0.01	U		0.01
HEPTACHLOR EPOXIDE	PEST/PCB	Cooling Pond	94575240SL	AP-3501	5'-7'	8080	11/11/1994	Soil	0.01	U		0.01
HEPTACHLOR EPOXIDE	PEST/PCB	965752BH01	96575225SL	AP-3785	5	8080	10/02/1996	Soil	0.0006	U	0.0006	0.0006
HEPTACHLOR EPOXIDE	PEST/PCB	965752BH03	96575231SL-AVG	AP-3787	2.5	8080	10/03/1996	Soil	0.0006	U	0.0006	0.0006
HEPTACHLOR EPOXIDE	PEST/PCB	965752BH03	96575233SL	AP-3787	5	8080	10/03/1996	Soil	0.0006	U	0.0006	0.0006
HEPTACHLOR EPOXIDE	PEST/PCB	965752BH04	96575238SL	AP-3788	2.5	8080	10/03/1996	Soil	0.0006	U	0.0006	0.0006
HEPTACHLOR EPOXIDE	PEST/PCB	965752BH04	96575239SL-AVG	AP-3788	5	8080	10/03/1996	Soil	0.0006	U	0.0006	0.0006

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
HEPTACHLOR EPOXIDE	PEST/PCB	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8080	10/06/1994	Soil	0.01	U		0.01
HEPTACHLOR EPOXIDE	PEST/PCB	Drum Accumulation Area	94575203SL	SS 2	6"	8080	10/06/1994	Soil	0.01	U		0.01
HEPTACHLOR EPOXIDE	PEST/PCB	Drum Accumulation Area	94575204SL	SS 3	6"	8080	10/06/1994	Soil	0.01	U		0.01
HEPTACHLOR EPOXIDE	PEST/PCB	Drum Accumulation Area	94575205SL	SS 4	6"	8080	10/06/1994	Soil	0.01	U		0.01
HEPTACHLOR EPOXIDE	PEST/PCB	Drum Accumulation Area	94575206SL	SS 5	6"	8080	10/06/1994	Soil	0.01	U		0.01
HEPTACHLOR EPOXIDE	PEST/PCB	Drum Accumulation Area	94575207SL	SS 6	6"	8080	10/06/1994	Soil	0.01	U		0.01
HEPTACHLOR EPOXIDE	PEST/PCB	Drum Accumulation Area	94575208SL	SS 7	6"	8080	10/06/1994	Soil	0.01	U		0.01
HEPTACHLOR EPOXIDE	PEST/PCB	Drum Accumulation Area	94575209SL	SS 8	6"	8080	10/06/1994	Soil	0.01	U		0.01
HEPTACHLOR EPOXIDE	PEST/PCB	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8080	11/03/1994	Soil	0.1	U		0.1
HEPTACHLOR EPOXIDE	PEST/PCB	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8080	11/03/1994	Soil	0.01	U		0.01
HEPTACHLOR EPOXIDE	PEST/PCB	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8080	11/07/1994	Soil	0.01	U		0.01
HEPTACHLOR EPOXIDE	PEST/PCB	Cooling Pond	94575231SL	AP-3503	0-6'	8080	11/08/1994	Soil	0.01	U		0.01
HEPTACHLOR EPOXIDE	PEST/PCB	Cooling Pond	94575235SL	AP-3504	0-2'	8080	11/09/1994	Soil	0.01	U		0.01
HEPTACHLOR EPOXIDE	PEST/PCB	965752BH03	96575230SL	AP-3787	0	8080	10/03/1996	Soil	0.0006	U	0.0006	0.01
HEPTACHLOR EPOXIDE	PEST/PCB	965752BH04	96575236SL-AVG	AP-3788	0	8080	10/03/1996	Soil	0.0006	U	0.0006	0.01
HEPTACHLORINATED DIBENZOFURANS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752132SL	P1	1.5 - 2	SW8290D	07/30/2002	Soil	0.0000014	=	0.00000169	0.000005
HEPTACHLORINATED DIBENZOFURANS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752202SL	P24	1 - 1.5	SW8290D	07/30/2002	Soil	0.0000483	=	0.00000169	0.000005
HEPTACHLORINATED DIBENZOFURANS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752215SL	P28	1.5 - 2	SW8290D	07/30/2002	Soil	0.0000017	U	0.0000017	0.000005
HEPTACHLORINATED DIBENZOFURANS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752220SL	P30	1 - 1.5	SW8290D	07/30/2002	Soil	0.0000011	=	0.0000017	0.000005
HEPTACHLORINATED DIBENZOFURANS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752157SL-AVG	P10	0 - 0.5	SW8290D	07/30/2002	Soil	0.00001435	=		
HEPTACHLORINATED DIBENZOFURANS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752208SL	P26	0 - 0.5	SW8290D	07/30/2002	Soil	0.000194	=		
HEPTACHLORINATED DIBENZOFURANS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752217SL	P29	0 - 0.5	SW8290D	07/30/2002	Soil	0.000147	=		
HEPTACHLORINATED DIBENZOFURANS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75264SL	S31	1 - 1.5	SW8290D	07/26/2002	Soil	0.00000065	=	0.00000165	0.0000049
HEPTACHLORINATED DIBENZOFURANS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75270SL	S34	1 - 1.5	SW8290D	07/26/2002	Soil	0.0000116	=	0.00000168	0.0000049
HEPTACHLORINATED DIBENZOFURANS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75277SL	S38	0 - 0.5	SW8290D	07/26/2002	Soil	0.0000346	=	0.00000169	0.000005
HEPTACHLORINATED DIBENZOFURANS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75283SL-AVG	S41	0 - 0.5	SW8290D	07/26/2002	Soil	0.00001855	=		
HEPTACHLORINATED DIBENZOFURANS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Transformer Mounting Area	02B75238SL	T13	0 - 0.5	SW8290D	08/01/2002	Soil	0.000867	=	0.00000169	0.000005
HEPTACHLORINATED DIBENZOFURANS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Transformer Mounting Area	02B75244SL	T15	0 - 0.5	SW8290D	08/01/2002	Soil	0.000461	=	0.00000169	0.000005
HEPTACHLORINATED DIBENZOFURANS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B75216SL	T6	0 - 0.5	SW8290D	08/01/2002	Soil	0.000073	=	0.00000167	0.0000049
HEPTACHLORINATED DIBENZOFURANS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B75229SL	T10	0 - 0.5	SW8290D	08/01/2002	Soil	0.0000782	=		
HEPTACHLORINATED DIBENZOFURANS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B752233	T11	0.5 - 1	SW8290D	10/15/2002	Soil	0.0000085	=	0.0000017	0.000005
HEPTACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752132SL	P1	1.5 - 2	SW8290D	07/30/2002	Soil	0.0000023	=	0.00000109	0.000005
HEPTACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752202SL	P24	1 - 1.5	SW8290D	07/30/2002	Soil	0.0000472	=	0.00000109	0.000005
HEPTACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752215SL	P28	1.5 - 2	SW8290D	07/30/2002	Soil	0.0000011	U	0.0000011	0.000005
HEPTACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752220SL	P30	1 - 1.5	SW8290D	07/30/2002	Soil	0.00000058	=	0.0000011	0.000005
HEPTACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752157SL-AVG	P10	0 - 0.5	SW8290D	07/30/2002	Soil	0.0000179	=		
HEPTACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752208SL	P26	0 - 0.5	SW8290D	07/30/2002	Soil	0.000441	=		
HEPTACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752217SL	P29	0 - 0.5	SW8290D	07/30/2002	Soil	0.0000896	=		
HEPTACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75264SL	S31	1 - 1.5	SW8290D	07/26/2002	Soil	0.0000054	=	0.00000107	0.0000049
HEPTACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75270SL	S34	1 - 1.5	SW8290D	07/26/2002	Soil	0.0000147	=	0.00000108	0.0000049
HEPTACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75277SL	S38	0 - 0.5	SW8290D	07/26/2002	Soil	0.000034	=	0.00000109	0.000005
HEPTACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75283SL-AVG	S41	0 - 0.5	SW8290D	07/26/2002	Soil	0.00003095	=		
HEPTACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Transformer Mounting Area	02B75238SL	T13	0 - 0.5	SW8290D	08/01/2002	Soil	0.00082	=	0.00000109	0.000005
HEPTACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Transformer Mounting Area	02B75244SL	T15	0 - 0.5	SW8290D	08/01/2002	Soil	0.000528	=	0.00000109	0.000005
HEPTACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B75216SL	T6	0 - 0.5	SW8290D	08/01/2002	Soil	0.000147	=	0.00000108	0.0000049
HEPTACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B75229SL	T10	0 - 0.5	SW8290D	08/01/2002	Soil	0.000322	=		
HEPTACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B752233	T11	0.5 - 1	SW8290D	10/15/2002	Soil	0.0000058	=	0.0000011	0.000005
HEXACHLORINATED DIBENZOFURANS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752132SL	P1	1.5 - 2	SW8290D	07/30/2002	Soil	0.00000049	=	0.00000039	0.000005
HEXACHLORINATED DIBENZOFURANS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752202SL	P24	1 - 1.5	SW8290D	07/30/2002	Soil	0.0000178	=	0.00000039	0.000005
HEXACHLORINATED DIBENZOFURANS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752215SL	P28	1.5 - 2	SW8290D	07/30/2002	Soil	0.00000039	U	0.00000039	0.000005
HEXACHLORINATED DIBENZOFURANS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752220SL	P30	1 - 1.5	SW8290D	07/30/2002	Soil	0.0000052	=	0.00000039	0.000005
HEXACHLORINATED DIBENZOFURANS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752157SL-AVG	P10	0 - 0.5	SW8290D	07/30/2002	Soil	0.00001725	=		
HEXACHLORINATED DIBENZOFURANS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752208SL	P26	0 - 0.5	SW8290D	07/30/2002	Soil	0.000138	=		
HEXACHLORINATED DIBENZOFURANS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752217SL	P29	0 - 0.5	SW8290D	07/30/2002	Soil	0.000133	=		
HEXACHLORINATED DIBENZOFURANS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75264SL	S31	1 - 1.5	SW8290D	07/26/2002	Soil	0.0000012	=	0.00000038	0.0000049
HEXACHLORINATED DIBENZOFURANS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75270SL	S34	1 - 1.5	SW8290D	07/26/2002	Soil	0.0000076	=	0.00000038	0.0000049
HEXACHLORINATED DIBENZOFURANS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75277SL	S38	0 - 0.5	SW8290D	07/26/2002	Soil	0.0000271	=	0.00000039	0.000005
HEXACHLORINATED DIBENZOFURANS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75283SL-AVG	S41	0 - 0.5	SW8290D	07/26/2002	Soil	0.00001475	=		
HEXACHLORINATED DIBENZOFURANS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Transformer Mounting Area	02B75238SL	T13	0 - 0.5	SW8290D	08/01/2002	Soil	0.000374	=	0.00000039	0.000005
HEXACHLORINATED DIBENZOFURANS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Transformer Mounting Area	02B75244SL	T15	0 - 0.5	SW8290D	08/01/2002	Soil	0.000378	=	0.00000039	0.000005
HEXACHLORINATED DIBENZOFURANS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B75216SL	T6	0 - 0.5	SW8290D	08/01/2002	Soil	0.0000801	=	0.00000038	0.0000049
HEXACHLORINATED DIBENZOFURANS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B75229SL	T10	0 - 0.5	SW8290D	08/01/2002	Soil	0.0000772	=		

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
HEXACHLORINATED DIBENZOFURANS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B752233	T11	0.5 - 1	SW8290D	10/15/2002	Soil	0.0000139	=	0.00000039	0.000005
HEXACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752132SL	P1	1.5 - 2	SW8290D	07/30/2002	Soil	0.00000094	U	0.00000094	0.000005
HEXACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752202SL	P24	1 - 1.5	SW8290D	07/30/2002	Soil	0.0000046	=	0.00000093	0.000005
HEXACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752215SL	P28	1.5 - 2	SW8290D	07/30/2002	Soil	0.00000094	U	0.00000094	0.000005
HEXACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752220SL	P30	1 - 1.5	SW8290D	07/30/2002	Soil	0.00000036	=	0.00000094	0.000005
HEXACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752157SL-AVG	P10	0 - 0.5	SW8290D	07/30/2002	Soil	0.00000091	=		
HEXACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752208SL	P26	0 - 0.5	SW8290D	07/30/2002	Soil	0.0000445	=		
HEXACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752217SL	P29	0 - 0.5	SW8290D	07/30/2002	Soil	0.0000033	=		
HEXACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75264SL	S31	1 - 1.5	SW8290D	07/26/2002	Soil	0.0000012	=	0.00000092	0.0000049
HEXACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75270SL	S34	1 - 1.5	SW8290D	07/26/2002	Soil	0.0000022	=	0.00000093	0.0000049
HEXACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75277SL	S38	0 - 0.5	SW8290D	07/26/2002	Soil	0.0000013	=	0.00000093	0.000005
HEXACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75283SL-AVG	S41	0 - 0.5	SW8290D	07/26/2002	Soil	0.0000012	=		
HEXACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Transformer Mounting Area	02B75238SL	T13	0 - 0.5	SW8290D	08/01/2002	Soil	0.0000533	=	0.00000094	0.000005
HEXACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Transformer Mounting Area	02B75244SL	T15	0 - 0.5	SW8290D	08/01/2002	Soil	0.0000245	=	0.00000093	0.000005
HEXACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B75216SL	T6	0 - 0.5	SW8290D	08/01/2002	Soil	0.0000135	=	0.00000092	0.0000049
HEXACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B75229SL	T10	0 - 0.5	SW8290D	08/01/2002	Soil	0.0000301	=		
HEXACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B752233	T11	0.5 - 1	SW8290D	10/15/2002	Soil	0.00000039	=	0.00000094	0.000005
HEXACHLOROBENZENE	SVOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
HEXACHLOROBENZENE	SVOC	Cooling Pond	94575242SD	SD-B	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
HEXACHLOROBENZENE	SVOC	Cooling Pond	94575243SD	SD-C	0-6"	8270	12/08/1994	Sediment	4	U		4
HEXACHLOROBENZENE	SVOC	Cooling Pond	94575244SD	SD-D	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
HEXACHLOROBENZENE	SVOC	Cooling Pond	94575245SD	SD-E	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
HEXACHLOROBENZENE	SVOC	Cooling Pond	94575246SD	SD-F	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
HEXACHLOROBENZENE	SVOC	Cooling Pond	94575247SD	SD-G	0-6"	8270	12/08/1994	Sediment	0.8	U		0.8
HEXACHLOROBENZENE	SVOC	Cooling Pond	94575248SD	SD-H	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
HEXACHLOROBENZENE	SVOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8270	09/25/1996	Sediment	0.6	U	0.6	3
HEXACHLOROBENZENE	SVOC	119 ft from DP	96575205SD	96-SD5	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7
HEXACHLOROBENZENE	SVOC	147 ft from DP	96575206SD	96-SD6	----	8270	09/25/1996	Sediment	0.06	U	0.06	0.3
HEXACHLOROBENZENE	SVOC	165 ft from DP	96575208SD	96-SD8	----	8270	09/25/1996	Sediment	0.06	U	0.06	0.3
HEXACHLOROBENZENE	SVOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8270	09/25/1996	Sediment	0.06	U	0.06	0.3
HEXACHLOROBENZENE	SVOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7
HEXACHLOROBENZENE	SVOC	40 ft from DP	96575202SD	96-SD2	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7
HEXACHLOROBENZENE	SVOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7
HEXACHLOROBENZENE	SVOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8270	09/25/1996	Sediment	0.06	U	0.06	0.3
HEXACHLOROBENZENE	SVOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8270	09/26/1996	Sediment	0.3	U	0.3	1.2
HEXACHLOROBENZENE	SVOC	Drum Accumulation Area	94575210SL	SS 8	2'	8270	10/06/1994	Soil	0.3	U		0.3
HEXACHLOROBENZENE	SVOC	Drum Accumulation Area	94575211SL	SS 7	2'	8270	10/10/1994	Soil	0.3	U		0.3
HEXACHLOROBENZENE	SVOC	Drum Accumulation Area	94575212SL	SS 6	2'	8270	10/10/1994	Soil	0.3	U		0.3
HEXACHLOROBENZENE	SVOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8270	10/10/1994	Soil	0.5	U		0.5
HEXACHLOROBENZENE	SVOC	Drum Accumulation Area	94575215SL	SS 4	2'	8270	10/10/1994	Soil	0.3	U		0.3
HEXACHLOROBENZENE	SVOC	Drum Accumulation Area	94575216SL	SS 3	2'	8270	10/10/1994	Soil	0.3	U		0.3
HEXACHLOROBENZENE	SVOC	Drum Accumulation Area	94575217SL	SS 2	2'	8270	10/10/1994	Soil	0.3	U		0.3
HEXACHLOROBENZENE	SVOC	Drum Accumulation Area	94575218SL	SS 1	2'	8270	10/10/1994	Soil	0.3	U		0.3
HEXACHLOROBENZENE	SVOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8270	11/03/1994	Soil	0.3	U		0.3
HEXACHLOROBENZENE	SVOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8270	11/03/1994	Soil	0.3	U		0.3
HEXACHLOROBENZENE	SVOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8270	11/07/1994	Soil	0.3	U		0.3
HEXACHLOROBENZENE	SVOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8270	11/09/1994	Soil	0.3	U		0.3
HEXACHLOROBENZENE	SVOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8270	11/11/1994	Soil	0.3	U		0.3
HEXACHLOROBENZENE	SVOC	965752BH01	96575225SL	AP-3785	5	8270	10/02/1996	Soil	0.06	U	0.06	0.06
HEXACHLOROBENZENE	SVOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8270	10/03/1996	Soil	0.2	U	0.2	0.2
HEXACHLOROBENZENE	SVOC	965752BH03	96575233SL	AP-3787	5	8270	10/03/1996	Soil	0.06	U	0.06	0.06
HEXACHLOROBENZENE	SVOC	965752BH04	96575238SL	AP-3788	2.5	8270	10/03/1996	Soil	0.06	U	0.06	0.06
HEXACHLOROBENZENE	SVOC	965752BH04	96575239SL-AVG	AP-3788	5	8270	10/03/1996	Soil	0.06	U	0.06	0.06
HEXACHLOROBENZENE	SVOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8270	10/06/1994	Soil	0.3	U		0.3
HEXACHLOROBENZENE	SVOC	Drum Accumulation Area	94575203SL	SS 2	6"	8270	10/06/1994	Soil	0.3	U		0.3
HEXACHLOROBENZENE	SVOC	Drum Accumulation Area	94575204SL	SS 3	6"	8270	10/06/1994	Soil	0.3	U		0.3
HEXACHLOROBENZENE	SVOC	Drum Accumulation Area	94575205SL	SS 4	6"	8270	10/06/1994	Soil	0.3	U		0.3
HEXACHLOROBENZENE	SVOC	Drum Accumulation Area	94575206SL	SS 5	6"	8270	10/06/1994	Soil	0.3	U		0.3
HEXACHLOROBENZENE	SVOC	Drum Accumulation Area	94575207SL	SS 6	6"	8270	10/06/1994	Soil	0.3	U		0.3
HEXACHLOROBENZENE	SVOC	Drum Accumulation Area	94575208SL	SS 7	6"	8270	10/06/1994	Soil	0.3	U		0.3
HEXACHLOROBENZENE	SVOC	Drum Accumulation Area	94575209SL	SS 8	6"	8270	10/06/1994	Soil	0.3	U		0.3
HEXACHLOROBENZENE	SVOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8270	11/03/1994	Soil	0.6	U		0.6

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
HEXACHLOROBENZENE	SVOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8270	11/03/1994	Soil	0.6	U		0.6
HEXACHLOROBENZENE	SVOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8270	11/07/1994	Soil	0.3	U		0.3
HEXACHLOROBENZENE	SVOC	Cooling Pond	94575231SL	AP-3503	0-6'	8270	11/08/1994	Soil	0.3	U		0.3
HEXACHLOROBENZENE	SVOC	Cooling Pond	94575235SL	AP-3504	0-2'	8270	11/09/1994	Soil	0.3	U		0.3
HEXACHLOROBENZENE	SVOC	965752BH03	96575230SL	AP-3787	0	8270	10/03/1996	Soil	0.06	U	0.06	0.3
HEXACHLOROBENZENE	SVOC	965752BH04	96575236SL-AVG	AP-3788	0	8270	10/03/1996	Soil	0.06	U	0.06	0.3
HEXACHLOROBUTADIENE	VOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
HEXACHLOROBUTADIENE	VOC	Cooling Pond	94575242SD	SD-B	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
HEXACHLOROBUTADIENE	VOC	Cooling Pond	94575243SD	SD-C	0-6"	8260	12/08/1994	Sediment	0.04	U		0.04
HEXACHLOROBUTADIENE	VOC	Cooling Pond	94575244SD	SD-D	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
HEXACHLOROBUTADIENE	VOC	Cooling Pond	94575245SD	SD-E	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
HEXACHLOROBUTADIENE	VOC	Cooling Pond	94575246SD	SD-F	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
HEXACHLOROBUTADIENE	VOC	Cooling Pond	94575247SD	SD-G	0-6"	8260	12/08/1994	Sediment	0.04	U		0.04
HEXACHLOROBUTADIENE	VOC	Cooling Pond	94575248SD	SD-H	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
HEXACHLOROBUTADIENE	VOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8260	09/25/1996	Sediment	0.001	U	0.001	0.04
HEXACHLOROBUTADIENE	VOC	119 ft from DP	96575205SD	96-SD5	----	8260	09/25/1996	Sediment	0.001	U	0.001	0.04
HEXACHLOROBUTADIENE	VOC	147 ft from DP	96575206SD	96-SD6	----	8260	09/25/1996	Sediment	0.0005	U	0.0005	0.02
HEXACHLOROBUTADIENE	VOC	165 ft from DP	96575208SD	96-SD8	----	8260	09/25/1996	Sediment	0.0005	U	0.0005	0.02
HEXACHLOROBUTADIENE	VOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8260	09/25/1996	Sediment	0.0005	U	0.0005	0.02
HEXACHLOROBUTADIENE	VOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.06
HEXACHLOROBUTADIENE	VOC	40 ft from DP	96575202SD	96-SD2	----	8260	09/25/1996	Sediment	0.001	U	0.001	0.04
HEXACHLOROBUTADIENE	VOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8260	09/25/1996	Sediment	0.001	U	0.001	0.04
HEXACHLOROBUTADIENE	VOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8260	09/25/1996	Sediment	0.0005	U	0.0005	0.02
HEXACHLOROBUTADIENE	VOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8260	09/26/1996	Sediment	0.001	U	0.001	0.04
HEXACHLOROBUTADIENE	VOC	Drum Accumulation Area	94575210SL	SS 8	2'	8260	10/06/1994	Soil	0.02	U		0.02
HEXACHLOROBUTADIENE	VOC	Drum Accumulation Area	94575211SL	SS 7	2'	8260	10/10/1994	Soil	0.02	U		0.02
HEXACHLOROBUTADIENE	VOC	Drum Accumulation Area	94575212SL	SS 6	2'	8260	10/10/1994	Soil	0.02	U		0.02
HEXACHLOROBUTADIENE	VOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8260	10/10/1994	Soil	0.02	U		0.02
HEXACHLOROBUTADIENE	VOC	Drum Accumulation Area	94575215SL	SS 4	2'	8260	10/10/1994	Soil	0.02	U		0.02
HEXACHLOROBUTADIENE	VOC	Drum Accumulation Area	94575216SL	SS 3	2'	8260	10/10/1994	Soil	0.02	U		0.02
HEXACHLOROBUTADIENE	VOC	Drum Accumulation Area	94575217SL	SS 2	2'	8260	10/10/1994	Soil	0.02	U		0.02
HEXACHLOROBUTADIENE	VOC	Drum Accumulation Area	94575218SL	SS 1	2'	8260	10/10/1994	Soil	0.02	U		0.02
HEXACHLOROBUTADIENE	VOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8260	11/03/1994	Soil	0.02	U		0.02
HEXACHLOROBUTADIENE	VOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8260	11/03/1994	Soil	0.02	U		0.02
HEXACHLOROBUTADIENE	VOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8260	11/07/1994	Soil	0.02	U		0.02
HEXACHLOROBUTADIENE	VOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8260	11/09/1994	Soil	0.02	U		0.02
HEXACHLOROBUTADIENE	VOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8260	11/11/1994	Soil	0.02	U		0.02
HEXACHLOROBUTADIENE	VOC	965752BH01	96575225SL	AP-3785	5	8260	10/02/1996	Soil	0.0005	U	0.0005	0.0005
HEXACHLOROBUTADIENE	VOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8260	10/03/1996	Soil	0.0005	U	0.0005	0.0005
HEXACHLOROBUTADIENE	VOC	965752BH04	96575238SL	AP-3788	2.5	8260	10/03/1996	Soil	0.0005	U	0.0005	0.0005
HEXACHLOROBUTADIENE	VOC	965752BH04	96575239SL-AVG	AP-3788	5	8260	10/03/1996	Soil	0.0005	U	0.0005	0.0005
HEXACHLOROBUTADIENE	VOC	965752BH03	96575233SL	AP-3787	5	8270	10/03/1996	Soil	0.05	U	0.05	0.05
HEXACHLOROBUTADIENE	VOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8260	10/06/1994	Soil	0.02	U		0.02
HEXACHLOROBUTADIENE	VOC	Drum Accumulation Area	94575203SL	SS 2	6"	8260	10/06/1994	Soil	0.02	U		0.02
HEXACHLOROBUTADIENE	VOC	Drum Accumulation Area	94575204SL	SS 3	6"	8260	10/06/1994	Soil	0.02	U		0.02
HEXACHLOROBUTADIENE	VOC	Drum Accumulation Area	94575205SL	SS 4	6"	8260	10/06/1994	Soil	0.02	U		0.02
HEXACHLOROBUTADIENE	VOC	Drum Accumulation Area	94575206SL	SS 5	6"	8260	10/06/1994	Soil	0.02	U		0.02
HEXACHLOROBUTADIENE	VOC	Drum Accumulation Area	94575207SL	SS 6	6"	8260	10/06/1994	Soil	0.02	U		0.02
HEXACHLOROBUTADIENE	VOC	Drum Accumulation Area	94575208SL	SS 7	6"	8260	10/06/1994	Soil	0.02	U		0.02
HEXACHLOROBUTADIENE	VOC	Drum Accumulation Area	94575209SL	SS 8	6"	8260	10/06/1994	Soil	0.02	U		0.02
HEXACHLOROBUTADIENE	VOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8260	11/03/1994	Soil	0.02	U		0.02
HEXACHLOROBUTADIENE	VOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8260	11/03/1994	Soil	0.02	U		0.02
HEXACHLOROBUTADIENE	VOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8260	11/07/1994	Soil	0.02	U		0.02
HEXACHLOROBUTADIENE	VOC	Cooling Pond	94575231SL	AP-3503	0-6'	8260	11/08/1994	Soil	0.02	U		0.02
HEXACHLOROBUTADIENE	VOC	Cooling Pond	94575235SL	AP-3504	0-2'	8260	11/09/1994	Soil	0.02	U		0.02
HEXACHLOROBUTADIENE	VOC	965752BH03	96575230SL	AP-3787	0	8260	10/03/1996	Soil	0.0005	U	0.0005	0.02
HEXACHLOROBUTADIENE	VOC	965752BH04	96575236SL-AVG	AP-3788	0	8260	10/03/1996	Soil	0.0005	U	0.0005	0.02
HEXACHLOROCYCLOPENTADIENE	SVOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
HEXACHLOROCYCLOPENTADIENE	SVOC	Cooling Pond	94575242SD	SD-B	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
HEXACHLOROCYCLOPENTADIENE	SVOC	Cooling Pond	94575243SD	SD-C	0-6"	8270	12/08/1994	Sediment	4	U		4
HEXACHLOROCYCLOPENTADIENE	SVOC	Cooling Pond	94575244SD	SD-D	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
HEXACHLOROCYCLOPENTADIENE	SVOC	Cooling Pond	94575245SD	SD-E	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
HEXACHLOROCYCLOPENTADIENE	SVOC	Cooling Pond	94575246SD	SD-F	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
HEXACHLOROCYCLOPENTADIENE	SVOC	Cooling Pond	94575247SD	SD-G	0-6"	8270	12/08/1994	Sediment	0.8	U		0.8
HEXACHLOROCYCLOPENTADIENE	SVOC	Cooling Pond	94575248SD	SD-H	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
HEXACHLOROCYCLOPENTADIENE	SVOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8270	09/25/1996	Sediment	0.4	U	0.4	3
HEXACHLOROCYCLOPENTADIENE	SVOC	119 ft from DP	96575205SD	96-SD5	----	8270	09/25/1996	Sediment	0.09	U	0.09	0.7
HEXACHLOROCYCLOPENTADIENE	SVOC	147 ft from DP	96575206SD	96-SD6	----	8270	09/25/1996	Sediment	0.04	U	0.04	0.3
HEXACHLOROCYCLOPENTADIENE	SVOC	165 ft from DP	96575208SD	96-SD8	----	8270	09/25/1996	Sediment	0.04	U	0.04	0.3
HEXACHLOROCYCLOPENTADIENE	SVOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8270	09/25/1996	Sediment	0.04	U	0.04	0.3
HEXACHLOROCYCLOPENTADIENE	SVOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8270	09/25/1996	Sediment	0.08	U	0.08	0.7
HEXACHLOROCYCLOPENTADIENE	SVOC	40 ft from DP	96575202SD	96-SD2	----	8270	09/25/1996	Sediment	0.09	U	0.09	0.7
HEXACHLOROCYCLOPENTADIENE	SVOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8270	09/25/1996	Sediment	0.09	U	0.09	0.7
HEXACHLOROCYCLOPENTADIENE	SVOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8270	09/25/1996	Sediment	0.04	U	0.04	0.3
HEXACHLOROCYCLOPENTADIENE	SVOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8270	09/26/1996	Sediment	0.2	U	0.2	1.2
HEXACHLOROCYCLOPENTADIENE	SVOC	Drum Accumulation Area	94575210SL	SS 8	2'	8270	10/06/1994	Soil	0.3	U		0.3
HEXACHLOROCYCLOPENTADIENE	SVOC	Drum Accumulation Area	94575211SL	SS 7	2'	8270	10/10/1994	Soil	0.3	U		0.3
HEXACHLOROCYCLOPENTADIENE	SVOC	Drum Accumulation Area	94575212SL	SS 6	2'	8270	10/10/1994	Soil	0.3	U		0.3
HEXACHLOROCYCLOPENTADIENE	SVOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8270	10/10/1994	Soil	0.5	U		0.5
HEXACHLOROCYCLOPENTADIENE	SVOC	Drum Accumulation Area	94575215SL	SS 4	2'	8270	10/10/1994	Soil	0.3	U		0.3
HEXACHLOROCYCLOPENTADIENE	SVOC	Drum Accumulation Area	94575216SL	SS 3	2'	8270	10/10/1994	Soil	0.3	U		0.3
HEXACHLOROCYCLOPENTADIENE	SVOC	Drum Accumulation Area	94575217SL	SS 2	2'	8270	10/10/1994	Soil	0.3	U		0.3
HEXACHLOROCYCLOPENTADIENE	SVOC	Drum Accumulation Area	94575218SL	SS 1	2'	8270	10/10/1994	Soil	0.3	U		0.3
HEXACHLOROCYCLOPENTADIENE	SVOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8270	11/03/1994	Soil	0.3	U		0.3
HEXACHLOROCYCLOPENTADIENE	SVOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8270	11/03/1994	Soil	0.3	U		0.3
HEXACHLOROCYCLOPENTADIENE	SVOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8270	11/07/1994	Soil	0.3	U		0.3
HEXACHLOROCYCLOPENTADIENE	SVOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8270	11/09/1994	Soil	0.3	U		0.3
HEXACHLOROCYCLOPENTADIENE	SVOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8270	11/11/1994	Soil	0.3	U		0.3
HEXACHLOROCYCLOPENTADIENE	SVOC	965752BH01	96575225SL	AP-3785	5	8270	10/02/1996	Soil	0.04	U	0.04	0.04
HEXACHLOROCYCLOPENTADIENE	SVOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8270	10/03/1996	Soil	0.08	U	0.08	0.08
HEXACHLOROCYCLOPENTADIENE	SVOC	965752BH03	96575233SL	AP-3787	5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
HEXACHLOROCYCLOPENTADIENE	SVOC	965752BH04	96575238SL	AP-3788	2.5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
HEXACHLOROCYCLOPENTADIENE	SVOC	965752BH04	96575239SL-AVG	AP-3788	5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
HEXACHLOROCYCLOPENTADIENE	SVOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8270	10/06/1994	Soil	0.3	U		0.3
HEXACHLOROCYCLOPENTADIENE	SVOC	Drum Accumulation Area	94575203SL	SS 2	6"	8270	10/06/1994	Soil	0.3	U		0.3
HEXACHLOROCYCLOPENTADIENE	SVOC	Drum Accumulation Area	94575204SL	SS 3	6"	8270	10/06/1994	Soil	0.3	U		0.3
HEXACHLOROCYCLOPENTADIENE	SVOC	Drum Accumulation Area	94575205SL	SS 4	6"	8270	10/06/1994	Soil	0.3	U		0.3
HEXACHLOROCYCLOPENTADIENE	SVOC	Drum Accumulation Area	94575206SL	SS 5	6"	8270	10/06/1994	Soil	0.3	U		0.3
HEXACHLOROCYCLOPENTADIENE	SVOC	Drum Accumulation Area	94575207SL	SS 6	6"	8270	10/06/1994	Soil	0.3	U		0.3
HEXACHLOROCYCLOPENTADIENE	SVOC	Drum Accumulation Area	94575208SL	SS 7	6"	8270	10/06/1994	Soil	0.3	U		0.3
HEXACHLOROCYCLOPENTADIENE	SVOC	Drum Accumulation Area	94575209SL	SS 8	6"	8270	10/06/1994	Soil	0.3	U		0.3
HEXACHLOROCYCLOPENTADIENE	SVOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8270	11/03/1994	Soil	0.6	U		0.6
HEXACHLOROCYCLOPENTADIENE	SVOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8270	11/03/1994	Soil	0.6	U		0.6
HEXACHLOROCYCLOPENTADIENE	SVOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8270	11/07/1994	Soil	0.3	U		0.3
HEXACHLOROCYCLOPENTADIENE	SVOC	Cooling Pond	94575231SL	AP-3503	0-6'	8270	11/08/1994	Soil	0.3	U		0.3
HEXACHLOROCYCLOPENTADIENE	SVOC	Cooling Pond	94575235SL	AP-3504	0-2'	8270	11/09/1994	Soil	0.3	U		0.3
HEXACHLOROCYCLOPENTADIENE	SVOC	965752BH03	96575230SL	AP-3787	0	8270	10/03/1996	Soil	0.04	U	0.04	0.3
HEXACHLOROCYCLOPENTADIENE	SVOC	965752BH04	96575236SL-AVG	AP-3788	0	8270	10/03/1996	Soil	0.04	U	0.04	0.3
HEXACHLOROETHANE	SVOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
HEXACHLOROETHANE	SVOC	Cooling Pond	94575242SD	SD-B	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
HEXACHLOROETHANE	SVOC	Cooling Pond	94575243SD	SD-C	0-6"	8270	12/08/1994	Sediment	4	U		4
HEXACHLOROETHANE	SVOC	Cooling Pond	94575244SD	SD-D	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
HEXACHLOROETHANE	SVOC	Cooling Pond	94575245SD	SD-E	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
HEXACHLOROETHANE	SVOC	Cooling Pond	94575246SD	SD-F	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
HEXACHLOROETHANE	SVOC	Cooling Pond	94575247SD	SD-G	0-6"	8270	12/08/1994	Sediment	0.8	U		0.8
HEXACHLOROETHANE	SVOC	Cooling Pond	94575248SD	SD-H	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
HEXACHLOROETHANE	SVOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8270	09/25/1996	Sediment	0.5	U	0.5	3
HEXACHLOROETHANE	SVOC	119 ft from DP	96575205SD	96-SD5	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7
HEXACHLOROETHANE	SVOC	147 ft from DP	96575206SD	96-SD6	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
HEXACHLOROETHANE	SVOC	165 ft from DP	96575208SD	96-SD8	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
HEXACHLOROETHANE	SVOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
HEXACHLOROETHANE	SVOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8270	09/25/1996	Sediment	0.1	U	0.1	0.7
HEXACHLOROETHANE	SVOC	40 ft from DP	96575202SD	96-SD2	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7
HEXACHLOROETHANE	SVOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
HEXACHLOROETHANE	SVOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
HEXACHLOROETHANE	SVOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8270	09/26/1996	Sediment	0.2	U	0.2	1.2
HEXACHLOROETHANE	SVOC	Drum Accumulation Area	94575210SL	SS 8	2'	8270	10/06/1994	Soil	0.3	U		0.3
HEXACHLOROETHANE	SVOC	Drum Accumulation Area	94575211SL	SS 7	2'	8270	10/10/1994	Soil	0.3	U		0.3
HEXACHLOROETHANE	SVOC	Drum Accumulation Area	94575212SL	SS 6	2'	8270	10/10/1994	Soil	0.3	U		0.3
HEXACHLOROETHANE	SVOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8270	10/10/1994	Soil	0.5	U		0.5
HEXACHLOROETHANE	SVOC	Drum Accumulation Area	94575215SL	SS 4	2'	8270	10/10/1994	Soil	0.3	U		0.3
HEXACHLOROETHANE	SVOC	Drum Accumulation Area	94575216SL	SS 3	2'	8270	10/10/1994	Soil	0.3	U		0.3
HEXACHLOROETHANE	SVOC	Drum Accumulation Area	94575217SL	SS 2	2'	8270	10/10/1994	Soil	0.3	U		0.3
HEXACHLOROETHANE	SVOC	Drum Accumulation Area	94575218SL	SS 1	2'	8270	10/10/1994	Soil	0.3	U		0.3
HEXACHLOROETHANE	SVOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8270	11/03/1994	Soil	0.3	U		0.3
HEXACHLOROETHANE	SVOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8270	11/03/1994	Soil	0.3	U		0.3
HEXACHLOROETHANE	SVOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8270	11/07/1994	Soil	0.3	U		0.3
HEXACHLOROETHANE	SVOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8270	11/09/1994	Soil	0.3	U		0.3
HEXACHLOROETHANE	SVOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8270	11/11/1994	Soil	0.3	U		0.3
HEXACHLOROETHANE	SVOC	965752BH01	96575225SL	AP-3785	5	8270	10/02/1996	Soil	0.05	U	0.05	0.05
HEXACHLOROETHANE	SVOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8270	10/03/1996	Soil	0.1	U	0.1	0.1
HEXACHLOROETHANE	SVOC	965752BH03	96575233SL	AP-3787	5	8270	10/03/1996	Soil	0.05	U	0.05	0.05
HEXACHLOROETHANE	SVOC	965752BH04	96575238SL	AP-3788	2.5	8270	10/03/1996	Soil	0.05	U	0.05	0.05
HEXACHLOROETHANE	SVOC	965752BH04	96575239SL-AVG	AP-3788	5	8270	10/03/1996	Soil	0.05	U	0.05	0.05
HEXACHLOROETHANE	SVOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8270	10/06/1994	Soil	0.3	U		0.3
HEXACHLOROETHANE	SVOC	Drum Accumulation Area	94575203SL	SS 2	6"	8270	10/06/1994	Soil	0.3	U		0.3
HEXACHLOROETHANE	SVOC	Drum Accumulation Area	94575204SL	SS 3	6"	8270	10/06/1994	Soil	0.3	U		0.3
HEXACHLOROETHANE	SVOC	Drum Accumulation Area	94575205SL	SS 4	6"	8270	10/06/1994	Soil	0.3	U		0.3
HEXACHLOROETHANE	SVOC	Drum Accumulation Area	94575206SL	SS 5	6"	8270	10/06/1994	Soil	0.3	U		0.3
HEXACHLOROETHANE	SVOC	Drum Accumulation Area	94575207SL	SS 6	6"	8270	10/06/1994	Soil	0.3	U		0.3
HEXACHLOROETHANE	SVOC	Drum Accumulation Area	94575208SL	SS 7	6"	8270	10/06/1994	Soil	0.3	U		0.3
HEXACHLOROETHANE	SVOC	Drum Accumulation Area	94575209SL	SS 8	6"	8270	10/06/1994	Soil	0.3	U		0.3
HEXACHLOROETHANE	SVOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8270	11/03/1994	Soil	0.6	U		0.6
HEXACHLOROETHANE	SVOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8270	11/03/1994	Soil	0.6	U		0.6
HEXACHLOROETHANE	SVOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8270	11/07/1994	Soil	0.3	U		0.3
HEXACHLOROETHANE	SVOC	Cooling Pond	94575231SL	AP-3503	0-6'	8270	11/08/1994	Soil	0.3	U		0.3
HEXACHLOROETHANE	SVOC	Cooling Pond	94575235SL	AP-3504	0-2'	8270	11/09/1994	Soil	0.3	U		0.3
HEXACHLOROETHANE	SVOC	965752BH03	96575230SL	AP-3787	0	8270	10/03/1996	Soil	0.05	U	0.05	0.3
HEXACHLOROETHANE	SVOC	965752BH04	96575236SL-AVG	AP-3788	0	8270	10/03/1996	Soil	0.05	U	0.05	0.3
INDENO(1,2,3-c,d)PYRENE	SVOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
INDENO(1,2,3-c,d)PYRENE	SVOC	Cooling Pond	94575242SD	SD-B	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
INDENO(1,2,3-c,d)PYRENE	SVOC	Cooling Pond	94575243SD	SD-C	0-6"	8270	12/08/1994	Sediment	4	U		4
INDENO(1,2,3-c,d)PYRENE	SVOC	Cooling Pond	94575244SD	SD-D	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
INDENO(1,2,3-c,d)PYRENE	SVOC	Cooling Pond	94575245SD	SD-E	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
INDENO(1,2,3-c,d)PYRENE	SVOC	Cooling Pond	94575246SD	SD-F	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
INDENO(1,2,3-c,d)PYRENE	SVOC	Cooling Pond	94575247SD	SD-G	0-6"	8270	12/08/1994	Sediment	0.8	U		0.8
INDENO(1,2,3-c,d)PYRENE	SVOC	Cooling Pond	94575248SD	SD-H	0-6"	8270	12/08/1994	Sediment	0.5	=		0.3
INDENO(1,2,3-c,d)PYRENE	SVOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8270	09/25/1996	Sediment	0.4	U	0.4	3
INDENO(1,2,3-c,d)PYRENE	SVOC	119 ft from DP	96575205SD	96-SD5	----	8270	09/25/1996	Sediment	0.09	U	0.09	0.7
INDENO(1,2,3-c,d)PYRENE	SVOC	147 ft from DP	96575206SD	96-SD6	----	8270	09/25/1996	Sediment	0.04	U	0.04	0.3
INDENO(1,2,3-c,d)PYRENE	SVOC	165 ft from DP	96575208SD	96-SD8	----	8270	09/25/1996	Sediment	0.1	J	0.04	0.3
INDENO(1,2,3-c,d)PYRENE	SVOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8270	09/25/1996	Sediment	0.04	U	0.04	0.3
INDENO(1,2,3-c,d)PYRENE	SVOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8270	09/25/1996	Sediment	0.08	U	0.08	0.7
INDENO(1,2,3-c,d)PYRENE	SVOC	40 ft from DP	96575202SD	96-SD2	----	8270	09/25/1996	Sediment	0.3	J	0.09	0.7
INDENO(1,2,3-c,d)PYRENE	SVOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8270	09/25/1996	Sediment	0.09	U	0.09	0.7
INDENO(1,2,3-c,d)PYRENE	SVOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8270	09/25/1996	Sediment	0.04	U	0.04	0.3
INDENO(1,2,3-c,d)PYRENE	SVOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8270	09/26/1996	Sediment	0.2	U	0.2	1.2
INDENO(1,2,3-c,d)PYRENE	SVOC	Downstream end of 35-752 pond	975752007SD-AVG	96-SD007	0	SIM	10/21/1997	Sediment	0.056	=	0.0007	0.005
INDENO(1,2,3-c,d)PYRENE	SVOC	Drum Accumulation Area	94575210SL	SS 8	2'	8270	10/06/1994	Soil	0.3	U		0.3
INDENO(1,2,3-c,d)PYRENE	SVOC	Drum Accumulation Area	94575211SL	SS 7	2'	8270	10/10/1994	Soil	0.3	U		0.3
INDENO(1,2,3-c,d)PYRENE	SVOC	Drum Accumulation Area	94575212SL	SS 6	2'	8270	10/10/1994	Soil	0.3	U		0.3
INDENO(1,2,3-c,d)PYRENE	SVOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8270	10/10/1994	Soil	0.5	U		0.5
INDENO(1,2,3-c,d)PYRENE	SVOC	Drum Accumulation Area	94575215SL	SS 4	2'	8270	10/10/1994	Soil	0.3	U		0.3
INDENO(1,2,3-c,d)PYRENE	SVOC	Drum Accumulation Area	94575216SL	SS 3	2'	8270	10/10/1994	Soil	0.3	U		0.3
INDENO(1,2,3-c,d)PYRENE	SVOC	Drum Accumulation Area	94575217SL	SS 2	2'	8270	10/10/1994	Soil	0.3	U		0.3
INDENO(1,2,3-c,d)PYRENE	SVOC	Drum Accumulation Area	94575218SL	SS 1	2'	8270	10/10/1994	Soil	0.3	U		0.3

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
INDENO(1,2,3-c,d)PYRENE	SVOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8270	11/03/1994	Soil	0.3	U		0.3
INDENO(1,2,3-c,d)PYRENE	SVOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8270	11/03/1994	Soil	0.3	U		0.3
INDENO(1,2,3-c,d)PYRENE	SVOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8270	11/07/1994	Soil	0.3	U		0.3
INDENO(1,2,3-c,d)PYRENE	SVOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8270	11/09/1994	Soil	0.3	U		0.3
INDENO(1,2,3-c,d)PYRENE	SVOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8270	11/11/1994	Soil	0.3	U		0.3
INDENO(1,2,3-c,d)PYRENE	SVOC	965752BH01	96575225SL	AP-3785	5	8270	10/02/1996	Soil	0.04	U	0.04	0.04
INDENO(1,2,3-c,d)PYRENE	SVOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8270	10/03/1996	Soil	0.08	U	0.08	0.08
INDENO(1,2,3-c,d)PYRENE	SVOC	965752BH03	96575233SL	AP-3787	5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
INDENO(1,2,3-c,d)PYRENE	SVOC	965752BH04	96575238SL	AP-3788	2.5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
INDENO(1,2,3-c,d)PYRENE	SVOC	965752BH04	96575239SL-AVG	AP-3788	5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
INDENO(1,2,3-c,d)PYRENE	SVOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8270	10/06/1994	Soil	0.3	U		0.3
INDENO(1,2,3-c,d)PYRENE	SVOC	Drum Accumulation Area	94575203SL	SS 2	6"	8270	10/06/1994	Soil	0.3	U		0.3
INDENO(1,2,3-c,d)PYRENE	SVOC	Drum Accumulation Area	94575204SL	SS 3	6"	8270	10/06/1994	Soil	0.3	U		0.3
INDENO(1,2,3-c,d)PYRENE	SVOC	Drum Accumulation Area	94575205SL	SS 4	6"	8270	10/06/1994	Soil	0.3	U		0.3
INDENO(1,2,3-c,d)PYRENE	SVOC	Drum Accumulation Area	94575206SL	SS 5	6"	8270	10/06/1994	Soil	0.3	U		0.3
INDENO(1,2,3-c,d)PYRENE	SVOC	Drum Accumulation Area	94575207SL	SS 6	6"	8270	10/06/1994	Soil	0.3	U		0.3
INDENO(1,2,3-c,d)PYRENE	SVOC	Drum Accumulation Area	94575208SL	SS 7	6"	8270	10/06/1994	Soil	0.3	U		0.3
INDENO(1,2,3-c,d)PYRENE	SVOC	Drum Accumulation Area	94575209SL	SS 8	6"	8270	10/06/1994	Soil	0.3	=		0.3
INDENO(1,2,3-c,d)PYRENE	SVOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8270	11/03/1994	Soil	0.6	U		0.6
INDENO(1,2,3-c,d)PYRENE	SVOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8270	11/03/1994	Soil	0.6	U		0.6
INDENO(1,2,3-c,d)PYRENE	SVOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8270	11/07/1994	Soil	0.3	U		0.3
INDENO(1,2,3-c,d)PYRENE	SVOC	Cooling Pond	94575231SL	AP-3503	0-6'	8270	11/08/1994	Soil	0.3	U		0.3
INDENO(1,2,3-c,d)PYRENE	SVOC	Cooling Pond	94575235SL	AP-3504	0-2'	8270	11/09/1994	Soil	0.3	U		0.3
INDENO(1,2,3-c,d)PYRENE	SVOC	965752BH03	96575230SL	AP-3787	0	8270	10/03/1996	Soil	0.04	U	0.04	0.3
INDENO(1,2,3-c,d)PYRENE	SVOC	965752BH04	96575236SL-AVG	AP-3788	0	8270	10/03/1996	Soil	0.04	U	0.04	0.3
IRON	METAL	Drum Accumulation Area	94575210SL	SS 8	2'	METALS	10/06/1994	Soil	28800	=		4
IRON	METAL	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	METALS	10/06/1994	Soil	27950	=		4
IRON	METAL	Drum Accumulation Area	94575203SL	SS 2	6"	METALS	10/06/1994	Soil	22000	=		4
IRON	METAL	Drum Accumulation Area	94575204SL	SS 3	6"	METALS	10/06/1994	Soil	30900	=		4
IRON	METAL	Drum Accumulation Area	94575205SL	SS 4	6"	METALS	10/06/1994	Soil	22700	=		4
IRON	METAL	Drum Accumulation Area	94575206SL	SS 5	6"	METALS	10/06/1994	Soil	18500	=		4
IRON	METAL	Drum Accumulation Area	94575207SL	SS 6	6"	METALS	10/06/1994	Soil	22400	=		4
IRON	METAL	Drum Accumulation Area	94575208SL	SS 7	6"	METALS	10/06/1994	Soil	26600	=		4
IRON	METAL	Drum Accumulation Area	94575209SL	SS 8	6"	METALS	10/06/1994	Soil	28800	=		4
ISOPHORONE	SVOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
ISOPHORONE	SVOC	Cooling Pond	94575242SD	SD-B	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
ISOPHORONE	SVOC	Cooling Pond	94575243SD	SD-C	0-6"	8270	12/08/1994	Sediment	4	U		4
ISOPHORONE	SVOC	Cooling Pond	94575244SD	SD-D	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
ISOPHORONE	SVOC	Cooling Pond	94575245SD	SD-E	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
ISOPHORONE	SVOC	Cooling Pond	94575246SD	SD-F	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
ISOPHORONE	SVOC	Cooling Pond	94575247SD	SD-G	0-6"	8270	12/08/1994	Sediment	0.8	U		0.8
ISOPHORONE	SVOC	Cooling Pond	94575248SD	SD-H	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
ISOPHORONE	SVOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8270	09/25/1996	Sediment	0.5	U	0.5	3
ISOPHORONE	SVOC	119 ft from DP	96575205SD	96-SD5	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7
ISOPHORONE	SVOC	147 ft from DP	96575206SD	96-SD6	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
ISOPHORONE	SVOC	165 ft from DP	96575208SD	96-SD8	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
ISOPHORONE	SVOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
ISOPHORONE	SVOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8270	09/25/1996	Sediment	0.1	U	0.1	0.7
ISOPHORONE	SVOC	40 ft from DP	96575202SD	96-SD2	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7
ISOPHORONE	SVOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7
ISOPHORONE	SVOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
ISOPHORONE	SVOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8270	09/26/1996	Sediment	0.2	U	0.2	1.2
ISOPHORONE	SVOC	Drum Accumulation Area	94575210SL	SS 8	2'	8270	10/06/1994	Soil	0.3	U		0.3
ISOPHORONE	SVOC	Drum Accumulation Area	94575211SL	SS 7	2'	8270	10/10/1994	Soil	0.3	U		0.3
ISOPHORONE	SVOC	Drum Accumulation Area	94575212SL	SS 6	2'	8270	10/10/1994	Soil	0.3	U		0.3
ISOPHORONE	SVOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8270	10/10/1994	Soil	0.5	U		0.5
ISOPHORONE	SVOC	Drum Accumulation Area	94575215SL	SS 4	2'	8270	10/10/1994	Soil	0.3	U		0.3
ISOPHORONE	SVOC	Drum Accumulation Area	94575216SL	SS 3	2'	8270	10/10/1994	Soil	0.3	U		0.3
ISOPHORONE	SVOC	Drum Accumulation Area	94575217SL	SS 2	2'	8270	10/10/1994	Soil	0.3	U		0.3
ISOPHORONE	SVOC	Drum Accumulation Area	94575218SL	SS 1	2'	8270	10/10/1994	Soil	0.3	U		0.3
ISOPHORONE	SVOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8270	11/03/1994	Soil	0.3	U		0.3
ISOPHORONE	SVOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8270	11/03/1994	Soil	0.3	U		0.3

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
ISOPHORONE	SVOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8270	11/07/1994	Soil	0.3	U		0.3
ISOPHORONE	SVOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8270	11/09/1994	Soil	0.3	U		0.3
ISOPHORONE	SVOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8270	11/11/1994	Soil	0.3	U		0.3
ISOPHORONE	SVOC	965752BH01	96575225SL	AP-3785	5	8270	10/02/1996	Soil	0.05	U	0.05	0.05
ISOPHORONE	SVOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8270	10/03/1996	Soil	0.1	U	0.1	0.1
ISOPHORONE	SVOC	965752BH03	96575233SL	AP-3787	5	8270	10/03/1996	Soil	0.05	U	0.05	0.05
ISOPHORONE	SVOC	965752BH04	96575238SL	AP-3788	2.5	8270	10/03/1996	Soil	0.05	U	0.05	0.05
ISOPHORONE	SVOC	965752BH04	96575239SL-AVG	AP-3788	5	8270	10/03/1996	Soil	0.05	U	0.05	0.05
ISOPHORONE	SVOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8270	10/06/1994	Soil	0.3	U		0.3
ISOPHORONE	SVOC	Drum Accumulation Area	94575203SL	SS 2	6"	8270	10/06/1994	Soil	0.3	U		0.3
ISOPHORONE	SVOC	Drum Accumulation Area	94575204SL	SS 3	6"	8270	10/06/1994	Soil	0.3	U		0.3
ISOPHORONE	SVOC	Drum Accumulation Area	94575205SL	SS 4	6"	8270	10/06/1994	Soil	0.3	U		0.3
ISOPHORONE	SVOC	Drum Accumulation Area	94575206SL	SS 5	6"	8270	10/06/1994	Soil	0.3	U		0.3
ISOPHORONE	SVOC	Drum Accumulation Area	94575207SL	SS 6	6"	8270	10/06/1994	Soil	0.3	U		0.3
ISOPHORONE	SVOC	Drum Accumulation Area	94575208SL	SS 7	6"	8270	10/06/1994	Soil	0.3	U		0.3
ISOPHORONE	SVOC	Drum Accumulation Area	94575209SL	SS 8	6"	8270	10/06/1994	Soil	0.3	U		0.3
ISOPHORONE	SVOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8270	11/03/1994	Soil	0.6	U		0.6
ISOPHORONE	SVOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8270	11/03/1994	Soil	0.6	U		0.6
ISOPHORONE	SVOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8270	11/07/1994	Soil	0.3	U		0.3
ISOPHORONE	SVOC	Cooling Pond	94575231SL	AP-3503	0-6'	8270	11/08/1994	Soil	0.3	U		0.3
ISOPHORONE	SVOC	Cooling Pond	94575235SL	AP-3504	0-2'	8270	11/09/1994	Soil	0.3	U		0.3
ISOPHORONE	SVOC	965752BH03	96575230SL	AP-3787	0	8270	10/03/1996	Soil	0.05	U	0.05	0.3
ISOPHORONE	SVOC	965752BH04	96575236SL-AVG	AP-3788	0	8270	10/03/1996	Soil	0.05	U	0.05	0.3
JET FUEL JET A	TPH	Tank 1109; BH-12	90FRUST86 soil	AP-2982	5-6.5'	8015m	08/21/1990	Soil	2.1	U		2.1
JET FUEL JET A	TPH	Tank 1109; BH-13	90FRUST90 soil	AP-2983	5-5.5'	8015m	08/21/1990	Soil	18	U		18
KEROSENE	TPH	Tank 1109; BH-12	90FRUST86 soil	AP-2982	5-6.5'	8015m	08/21/1990	Soil	2.1	U		2.1
KEROSENE	TPH	Tank 1109; BH-13	90FRUST90 soil	AP-2983	5-5.5'	8015m	08/21/1990	Soil	18	U		18
LEAD	METAL	Cooling Pond	94575240SD-AVG	SD-A	0-6"	METALS	12/08/1994	Sediment	24	=		1
LEAD	METAL	Cooling Pond	94575242SD	SD-B	0-6"	METALS	12/08/1994	Sediment	48	=		1
LEAD	METAL	Cooling Pond	94575243SD	SD-C	0-6"	METALS	12/08/1994	Sediment	23	=		1
LEAD	METAL	Cooling Pond	94575244SD	SD-D	0-6"	METALS	12/08/1994	Sediment	21	=		1
LEAD	METAL	Cooling Pond	94575245SD	SD-E	0-6"	METALS	12/08/1994	Sediment	14	=		1
LEAD	METAL	Cooling Pond	94575246SD	SD-F	0-6"	METALS	12/08/1994	Sediment	31	=		1
LEAD	METAL	Cooling Pond	94575247SD	SD-G	0-6"	METALS	12/08/1994	Sediment	61	=		1
LEAD	METAL	Cooling Pond	94575248SD	SD-H	0-6"	METALS	12/08/1994	Sediment	36	=		1
LEAD	METAL	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	METALS	09/25/1996	Sediment	129	=	4	20
LEAD	METAL	119 ft from DP	96575205SD	96-SD5	----	METALS	09/25/1996	Sediment	33	=	4	20
LEAD	METAL	147 ft from DP	96575206SD	96-SD6	----	METALS	09/25/1996	Sediment	4	U	4	20
LEAD	METAL	165 ft from DP	96575208SD	96-SD8	----	METALS	09/25/1996	Sediment	43	=	4	20
LEAD	METAL	171 ft from DP (east side)	96575209SD	96-SD9	----	METALS	09/25/1996	Sediment	34	=	4	20
LEAD	METAL	171 ft from DP (west side)	96575207SD	96-SD7	----	METALS	09/25/1996	Sediment	74	=	4	20
LEAD	METAL	40 ft from DP	96575202SD	96-SD2	----	METALS	09/25/1996	Sediment	39	=	4	20
LEAD	METAL	79 ft from DP	96575203SD-AVG	96-SD3	----	METALS	09/25/1996	Sediment	27	=	4	20
LEAD	METAL	Discharge pipe (DP)	96575201SD	96-SD1	----	METALS	09/25/1996	Sediment	10	J	4	20
LEAD	METAL	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	METALS	09/26/1996	Sediment	200	=	4	20
LEAD	METAL	Drum Accumulation Area	94575210SL	SS 8	2'	METALS	10/06/1994	Soil	7	=		1
LEAD	METAL	Drum Accumulation Area	94575211SL	SS 7	2'	METALS	10/10/1994	Soil	16	=		1
LEAD	METAL	Drum Accumulation Area	94575212SL	SS 6	2'	METALS	10/10/1994	Soil	10	=		1
LEAD	METAL	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	METALS	10/10/1994	Soil	14.5	=		1
LEAD	METAL	Drum Accumulation Area	94575215SL	SS 4	2'	METALS	10/10/1994	Soil	10	=		1
LEAD	METAL	Drum Accumulation Area	94575216SL	SS 3	2'	METALS	10/10/1994	Soil	5	=		1
LEAD	METAL	Drum Accumulation Area	94575217SL	SS 2	2'	METALS	10/10/1994	Soil	8	=		1
LEAD	METAL	Drum Accumulation Area	94575218SL	SS 1	2'	METALS	10/10/1994	Soil	6	=		1
LEAD	METAL	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	METALS	11/03/1994	Soil	8	=		1
LEAD	METAL	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	METALS	11/03/1994	Soil	6	=		1
LEAD	METAL	Cooling Pond	94575229SL	AP-3502	4'-6'	METALS	11/07/1994	Soil	7	=		1
LEAD	METAL	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	METALS	11/09/1994	Soil	5.5	=		1
LEAD	METAL	Cooling Pond	94575240SL	AP-3501	5'-7'	METALS	11/11/1994	Soil	13	J		1
LEAD	METAL	965752BH03	96575231SL-AVG	AP-3787	2.5	METALS	10/03/1996	Soil	14	=	0.2	0.2
LEAD	METAL	965752BH03	96575233SL	AP-3787	5	METALS	10/03/1996	Soil	6	=	0.2	0.2
LEAD	METAL	965752BH04	96575238SL	AP-3788	2.5	METALS	10/03/1996	Soil	7	=	0.2	0.2
LEAD	METAL	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	METALS	10/06/1994	Soil	6.5	=		1

TABLE A-1

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Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
LEAD	METAL	Drum Accumulation Area	94575203SL	SS 2	6"	METALS	10/06/1994	Soil	8	=		1
LEAD	METAL	Drum Accumulation Area	94575204SL	SS 3	6"	METALS	10/06/1994	Soil	12	=		1
LEAD	METAL	Drum Accumulation Area	94575205SL	SS 4	6"	METALS	10/06/1994	Soil	10	=		1
LEAD	METAL	Drum Accumulation Area	94575206SL	SS 5	6"	METALS	10/06/1994	Soil	36	=		1
LEAD	METAL	Drum Accumulation Area	94575207SL	SS 6	6"	METALS	10/06/1994	Soil	8	=		1
LEAD	METAL	Drum Accumulation Area	94575208SL	SS 7	6"	METALS	10/06/1994	Soil	6	=		1
LEAD	METAL	Drum Accumulation Area	94575209SL	SS 8	6"	METALS	10/06/1994	Soil	13	=		1
LEAD	METAL	Drum Accumulation Area	94575219SL	AP-3505	0-4'	METALS	11/03/1994	Soil	18	=		1
LEAD	METAL	Drum Accumulation Area	94575223SL	AP-3506	0-2'	METALS	11/03/1994	Soil	24	=		1
LEAD	METAL	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	METALS	11/07/1994	Soil	10	=		1
LEAD	METAL	Cooling Pond	94575231SL	AP-3503	0-6'	METALS	11/08/1994	Soil	9	=		1
LEAD	METAL	Cooling Pond	94575235SL	AP-3504	0-2'	METALS	11/09/1994	Soil	12	=		1
LEAD	METAL	965752BH03	96575230SL	AP-3787	0	METALS	10/03/1996	Soil	16	=	0.4	2
LEAD	METAL	965752BH04	96575236SL-AVG	AP-3788	0	METALS	10/03/1996	Soil	24	=	0.4	2
MAGNESIUM	METAL	Drum Accumulation Area	94575210SL	SS 8	2'	METALS	10/06/1994	Soil	7840	=		2
MAGNESIUM	METAL	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	METALS	10/06/1994	Soil	8330	=		2
MAGNESIUM	METAL	Drum Accumulation Area	94575203SL	SS 2	6"	METALS	10/06/1994	Soil	7300	=		2
MAGNESIUM	METAL	Drum Accumulation Area	94575204SL	SS 3	6"	METALS	10/06/1994	Soil	10300	=		2
MAGNESIUM	METAL	Drum Accumulation Area	94575205SL	SS 4	6"	METALS	10/06/1994	Soil	5930	=		2
MAGNESIUM	METAL	Drum Accumulation Area	94575206SL	SS 5	6"	METALS	10/06/1994	Soil	6820	=		2
MAGNESIUM	METAL	Drum Accumulation Area	94575207SL	SS 6	6"	METALS	10/06/1994	Soil	6250	=		2
MAGNESIUM	METAL	Drum Accumulation Area	94575208SL	SS 7	6"	METALS	10/06/1994	Soil	7430	=		2
MAGNESIUM	METAL	Drum Accumulation Area	94575209SL	SS 8	6"	METALS	10/06/1994	Soil	8170	=		2
MANGANESE	METAL	Drum Accumulation Area	94575210SL	SS 8	2'	METALS	10/06/1994	Soil	628	=		1
MANGANESE	METAL	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	METALS	10/06/1994	Soil	642	=		1
MANGANESE	METAL	Drum Accumulation Area	94575203SL	SS 2	6"	METALS	10/06/1994	Soil	477	=		1
MANGANESE	METAL	Drum Accumulation Area	94575204SL	SS 3	6"	METALS	10/06/1994	Soil	669	=		1
MANGANESE	METAL	Drum Accumulation Area	94575205SL	SS 4	6"	METALS	10/06/1994	Soil	472	=		1
MANGANESE	METAL	Drum Accumulation Area	94575206SL	SS 5	6"	METALS	10/06/1994	Soil	383	=		1
MANGANESE	METAL	Drum Accumulation Area	94575207SL	SS 6	6"	METALS	10/06/1994	Soil	455	=		1
MANGANESE	METAL	Drum Accumulation Area	94575208SL	SS 7	6"	METALS	10/06/1994	Soil	502	=		1
MANGANESE	METAL	Drum Accumulation Area	94575209SL	SS 8	6"	METALS	10/06/1994	Soil	544	=		1
MCPA	SVOC	Drum Accumulation Area	94575210SL	SS 8	2'	8150	10/06/1994	Soil	20	U		20
MCPA	SVOC	Drum Accumulation Area	94575211SL	SS 7	2'	8150	10/10/1994	Soil	20	U		20
MCPA	SVOC	Drum Accumulation Area	94575212SL	SS 6	2'	8150	10/10/1994	Soil	20	U		20
MCPA	SVOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8150	10/10/1994	Soil	20	U		20
MCPA	SVOC	Drum Accumulation Area	94575215SL	SS 4	2'	8150	10/10/1994	Soil	20	U		20
MCPA	SVOC	Drum Accumulation Area	94575216SL	SS 3	2'	8150	10/10/1994	Soil	20	U		20
MCPA	SVOC	Drum Accumulation Area	94575217SL	SS 2	2'	8150	10/10/1994	Soil	20	U		20
MCPA	SVOC	Drum Accumulation Area	94575218SL	SS 1	2'	8150	10/10/1994	Soil	20	U		20
MCPA	SVOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8150	11/03/1994	Soil	20	U		20
MCPA	SVOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8150	11/03/1994	Soil	20	U		20
MCPA	SVOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8150	11/07/1994	Soil	20	U		20
MCPA	SVOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8150	11/09/1994	Soil	20	U		20
MCPA	SVOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8150	11/11/1994	Soil	20	U		20
MCPA	SVOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8150	10/06/1994	Soil	20	U		20
MCPA	SVOC	Drum Accumulation Area	94575203SL	SS 2	6"	8150	10/06/1994	Soil	20	U		20
MCPA	SVOC	Drum Accumulation Area	94575204SL	SS 3	6"	8150	10/06/1994	Soil	20	U		20
MCPA	SVOC	Drum Accumulation Area	94575205SL	SS 4	6"	8150	10/06/1994	Soil	20	U		20
MCPA	SVOC	Drum Accumulation Area	94575206SL	SS 5	6"	8150	10/06/1994	Soil	20	U		20
MCPA	SVOC	Drum Accumulation Area	94575207SL	SS 6	6"	8150	10/06/1994	Soil	20	U		20
MCPA	SVOC	Drum Accumulation Area	94575208SL	SS 7	6"	8150	10/06/1994	Soil	20	U		20
MCPA	SVOC	Drum Accumulation Area	94575209SL	SS 8	6"	8150	10/06/1994	Soil	20	U		20
MCPA	SVOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8150	11/03/1994	Soil	20	U		20
MCPA	SVOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8150	11/03/1994	Soil	20	U		20
MCPA	SVOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8150	11/07/1994	Soil	20	U		20
MCPA	SVOC	Cooling Pond	94575231SL	AP-3503	0-6'	8150	11/08/1994	Soil	20	U		20
MCPA	SVOC	Cooling Pond	94575235SL	AP-3504	0-2'	8150	11/09/1994	Soil	20	U		20
MCPP	SVOC	Drum Accumulation Area	94575210SL	SS 8	2'	8150	10/06/1994	Soil	20	U		20
MCPP	SVOC	Drum Accumulation Area	94575211SL	SS 7	2'	8150	10/10/1994	Soil	20	U		20
MCPP	SVOC	Drum Accumulation Area	94575212SL	SS 6	2'	8150	10/10/1994	Soil	20	U		20
MCPP	SVOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8150	10/10/1994	Soil	20	U		20

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Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
MCPP	SVOC	Drum Accumulation Area	94575215SL	SS 4	2'	8150	10/10/1994	Soil	20	U		20
MCPP	SVOC	Drum Accumulation Area	94575216SL	SS 3	2'	8150	10/10/1994	Soil	20	U		20
MCPP	SVOC	Drum Accumulation Area	94575217SL	SS 2	2'	8150	10/10/1994	Soil	20	U		20
MCPP	SVOC	Drum Accumulation Area	94575218SL	SS 1	2'	8150	10/10/1994	Soil	20	U		20
MCPP	SVOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8150	11/03/1994	Soil	20	U		20
MCPP	SVOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8150	11/03/1994	Soil	20	U		20
MCPP	SVOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8150	11/07/1994	Soil	20	U		20
MCPP	SVOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8150	11/09/1994	Soil	20	U		20
MCPP	SVOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8150	11/11/1994	Soil	20	U		20
MCPP	SVOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8150	10/06/1994	Soil	20	U		20
MCPP	SVOC	Drum Accumulation Area	94575203SL	SS 2	6"	8150	10/06/1994	Soil	20	U		20
MCPP	SVOC	Drum Accumulation Area	94575204SL	SS 3	6"	8150	10/06/1994	Soil	20	U		20
MCPP	SVOC	Drum Accumulation Area	94575205SL	SS 4	6"	8150	10/06/1994	Soil	20	U		20
MCPP	SVOC	Drum Accumulation Area	94575206SL	SS 5	6"	8150	10/06/1994	Soil	20	U		20
MCPP	SVOC	Drum Accumulation Area	94575207SL	SS 6	6"	8150	10/06/1994	Soil	20	U		20
MCPP	SVOC	Drum Accumulation Area	94575208SL	SS 7	6"	8150	10/06/1994	Soil	20	U		20
MCPP	SVOC	Drum Accumulation Area	94575209SL	SS 8	6"	8150	10/06/1994	Soil	20	U		20
MCPP	SVOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8150	11/03/1994	Soil	20	U		20
MCPP	SVOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8150	11/03/1994	Soil	20	U		20
MCPP	SVOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8150	11/07/1994	Soil	20	U		20
MCPP	SVOC	Cooling Pond	94575231SL	AP-3503	0-6'	8150	11/08/1994	Soil	20	U		20
MCPP	SVOC	Cooling Pond	94575235SL	AP-3504	0-2'	8150	11/09/1994	Soil	20	U		20
MERCURY	METAL	Cooling Pond	94575240SD-AVG	SD-A	0-6"	METALS	12/08/1994	Sediment	0.2	U		0.2
MERCURY	METAL	Cooling Pond	94575242SD	SD-B	0-6"	METALS	12/08/1994	Sediment	0.2	U		0.2
MERCURY	METAL	Cooling Pond	94575243SD	SD-C	0-6"	METALS	12/08/1994	Sediment	0.2	U		0.2
MERCURY	METAL	Cooling Pond	94575244SD	SD-D	0-6"	METALS	12/08/1994	Sediment	0.2	U		0.2
MERCURY	METAL	Cooling Pond	94575245SD	SD-E	0-6"	METALS	12/08/1994	Sediment	0.2	U		0.2
MERCURY	METAL	Cooling Pond	94575246SD	SD-F	0-6"	METALS	12/08/1994	Sediment	0.2	U		0.2
MERCURY	METAL	Cooling Pond	94575247SD	SD-G	0-6"	METALS	12/08/1994	Sediment	0.2	U		0.2
MERCURY	METAL	Cooling Pond	94575248SD	SD-H	0-6"	METALS	12/08/1994	Sediment	0.2	U		0.2
MERCURY	METAL	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	METALS	09/25/1996	Sediment	0.2	J	0.05	0.2
MERCURY	METAL	119 ft from DP	96575205SD	96-SD5	----	METALS	09/25/1996	Sediment	0.09	J	0.05	0.2
MERCURY	METAL	147 ft from DP	96575206SD	96-SD6	----	METALS	09/25/1996	Sediment	0.05	J	0.05	0.2
MERCURY	METAL	165 ft from DP	96575208SD	96-SD8	----	METALS	09/25/1996	Sediment	0.09	J	0.05	0.2
MERCURY	METAL	171 ft from DP (east side)	96575209SD	96-SD9	----	METALS	09/25/1996	Sediment	0.07	J	0.05	0.2
MERCURY	METAL	171 ft from DP (west side)	96575207SD	96-SD7	----	METALS	09/25/1996	Sediment	0.1	J	0.05	0.2
MERCURY	METAL	40 ft from DP	96575202SD	96-SD2	----	METALS	09/25/1996	Sediment	0.1	J	0.05	0.2
MERCURY	METAL	79 ft from DP	96575203SD-AVG	96-SD3	----	METALS	09/25/1996	Sediment	0.075	J	0.05	0.2
MERCURY	METAL	Discharge pipe (DP)	96575201SD	96-SD1	----	METALS	09/25/1996	Sediment	0.05	U	0.05	0.2
MERCURY	METAL	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	METALS	09/26/1996	Sediment	0.3	=	0.05	0.2
MERCURY	METAL	Drum Accumulation Area	94575210SL	SS 8	2'	METALS	10/06/1994	Soil	0.2	U		0.2
MERCURY	METAL	Drum Accumulation Area	94575211SL	SS 7	2'	METALS	10/10/1994	Soil	0.2	U		0.2
MERCURY	METAL	Drum Accumulation Area	94575212SL	SS 6	2'	METALS	10/10/1994	Soil	0.2	U		0.2
MERCURY	METAL	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	METALS	10/10/1994	Soil	0.2	U		0.2
MERCURY	METAL	Drum Accumulation Area	94575215SL	SS 4	2'	METALS	10/10/1994	Soil	0.2	U		0.2
MERCURY	METAL	Drum Accumulation Area	94575216SL	SS 3	2'	METALS	10/10/1994	Soil	0.2	U		0.2
MERCURY	METAL	Drum Accumulation Area	94575217SL	SS 2	2'	METALS	10/10/1994	Soil	0.2	U		0.2
MERCURY	METAL	Drum Accumulation Area	94575218SL	SS 1	2'	METALS	10/10/1994	Soil	0.2	U		0.2
MERCURY	METAL	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	METALS	11/03/1994	Soil	0.2	U		0.2
MERCURY	METAL	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	METALS	11/03/1994	Soil	0.2	U		0.2
MERCURY	METAL	Cooling Pond	94575229SL	AP-3502	4'-6'	METALS	11/07/1994	Soil	0.2	U		0.2
MERCURY	METAL	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	METALS	11/09/1994	Soil	0.2	U		0.2
MERCURY	METAL	Cooling Pond	94575240SL	AP-3501	5'-7'	METALS	11/11/1994	Soil	0.2	U		0.2
MERCURY	METAL	965752BH03	96575231SL-AVG	AP-3787	2.5	METALS	10/03/1996	Soil	0.06	J	0.05	0.05
MERCURY	METAL	965752BH03	96575233SL	AP-3787	5	METALS	10/03/1996	Soil	0.07	J	0.05	0.05
MERCURY	METAL	965752BH04	96575238SL	AP-3788	2.5	METALS	10/03/1996	Soil	0.09	J	0.05	0.05
MERCURY	METAL	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	METALS	10/06/1994	Soil	0.2	U		0.2
MERCURY	METAL	Drum Accumulation Area	94575203SL	SS 2	6"	METALS	10/06/1994	Soil	0.2	U		0.2
MERCURY	METAL	Drum Accumulation Area	94575204SL	SS 3	6"	METALS	10/06/1994	Soil	0.2	U		0.2
MERCURY	METAL	Drum Accumulation Area	94575205SL	SS 4	6"	METALS	10/06/1994	Soil	0.2	U		0.2
MERCURY	METAL	Drum Accumulation Area	94575206SL	SS 5	6"	METALS	10/06/1994	Soil	0.2	U		0.2
MERCURY	METAL	Drum Accumulation Area	94575207SL	SS 6	6"	METALS	10/06/1994	Soil	0.2	U		0.2

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
MERCURY	METAL	Drum Accumulation Area	94575208SL	SS 7	6"	METALS	10/06/1994	Soil	0.2	U		0.2
MERCURY	METAL	Drum Accumulation Area	94575209SL	SS 8	6"	METALS	10/06/1994	Soil	0.2	U		0.2
MERCURY	METAL	Drum Accumulation Area	94575219SL	AP-3505	0-4'	METALS	11/03/1994	Soil	0.2	U		0.2
MERCURY	METAL	Drum Accumulation Area	94575223SL	AP-3506	0-2'	METALS	11/03/1994	Soil	0.2	U		0.2
MERCURY	METAL	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	METALS	11/07/1994	Soil	0.2	U		0.2
MERCURY	METAL	Cooling Pond	94575231SL	AP-3503	0-6'	METALS	11/08/1994	Soil	0.2	U		0.2
MERCURY	METAL	Cooling Pond	94575235SL	AP-3504	0-2'	METALS	11/09/1994	Soil	0.2	U		0.2
MERCURY	METAL	965752BH03	96575230SL	AP-3787	0	METALS	10/03/1996	Soil	0.05	U	0.05	0.2
MERCURY	METAL	965752BH04	96575236SL-AVG	AP-3788	0	METALS	10/03/1996	Soil	0.095	J	0.05	0.2
METHOXYCHLOR	PEST/PCB	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8080	12/08/1994	Sediment	0.02	U		0.02
METHOXYCHLOR	PEST/PCB	Cooling Pond	94575242SD	SD-B	0-6"	8080	12/08/1994	Sediment	0.02	U		0.02
METHOXYCHLOR	PEST/PCB	Cooling Pond	94575243SD	SD-C	0-6"	8080	12/08/1994	Sediment	0.02	U		0.02
METHOXYCHLOR	PEST/PCB	Cooling Pond	94575244SD	SD-D	0-6"	8080	12/08/1994	Sediment	0.02	U		0.02
METHOXYCHLOR	PEST/PCB	Cooling Pond	94575245SD	SD-E	0-6"	8080	12/08/1994	Sediment	0.15	U		0.15
METHOXYCHLOR	PEST/PCB	Cooling Pond	94575246SD	SD-F	0-6"	8080	12/08/1994	Sediment	0.4	U		0.4
METHOXYCHLOR	PEST/PCB	Cooling Pond	94575247SD	SD-G	0-6"	8080	12/08/1994	Sediment	0.3	U		0.3
METHOXYCHLOR	PEST/PCB	Cooling Pond	94575248SD	SD-H	0-6"	8080	12/08/1994	Sediment	0.2	U		0.2
METHOXYCHLOR	PEST/PCB	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8080	09/25/1996	Sediment	0.006	U	0.006	0.04
METHOXYCHLOR	PEST/PCB	119 ft from DP	96575205SD	96-SD5	----	8080	09/25/1996	Sediment	0.006	U	0.006	0.07
METHOXYCHLOR	PEST/PCB	147 ft from DP	96575206SD	96-SD6	----	8080	09/25/1996	Sediment	0.003	U	0.003	0.05
METHOXYCHLOR	PEST/PCB	165 ft from DP	96575208SD	96-SD8	----	8080	09/25/1996	Sediment	0.003	U	0.003	0.03
METHOXYCHLOR	PEST/PCB	171 ft from DP (east side)	96575209SD	96-SD9	----	8080	09/25/1996	Sediment	0.003	U	0.003	0.02
METHOXYCHLOR	PEST/PCB	171 ft from DP (west side)	96575207SD	96-SD7	----	8080	09/25/1996	Sediment	0.006	U	0.006	0.05
METHOXYCHLOR	PEST/PCB	40 ft from DP	96575202SD	96-SD2	----	8080	09/25/1996	Sediment	0.006	U	0.006	0.2
METHOXYCHLOR	PEST/PCB	79 ft from DP	96575203SD-AVG	96-SD3	----	8080	09/25/1996	Sediment	0.006	U	0.006	0.06
METHOXYCHLOR	PEST/PCB	Discharge pipe (DP)	96575201SD	96-SD1	----	8080	09/25/1996	Sediment	0.02	U	0.02	0.02
METHOXYCHLOR	PEST/PCB	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8080	09/26/1996	Sediment	0.006	U	0.006	0.04
METHOXYCHLOR	PEST/PCB	Downstream end of 35-752 pond	975752007SD-AVG	96-SD007	0	SW8081	10/21/1997	Sediment	0.003	U	0.003	0.04
METHOXYCHLOR	PEST/PCB	Drum Accumulation Area	94575210SL	SS 8	2'	8080	10/06/1994	Soil	0.02	U		0.02
METHOXYCHLOR	PEST/PCB	Drum Accumulation Area	94575211SL	SS 7	2'	8080	10/10/1994	Soil	0.02	U		0.02
METHOXYCHLOR	PEST/PCB	Drum Accumulation Area	94575212SL	SS 6	2'	8080	10/10/1994	Soil	0.02	U		0.02
METHOXYCHLOR	PEST/PCB	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8080	10/10/1994	Soil	0.02	U		0.02
METHOXYCHLOR	PEST/PCB	Drum Accumulation Area	94575215SL	SS 4	2'	8080	10/10/1994	Soil	0.02	U		0.02
METHOXYCHLOR	PEST/PCB	Drum Accumulation Area	94575216SL	SS 3	2'	8080	10/10/1994	Soil	0.02	U		0.02
METHOXYCHLOR	PEST/PCB	Drum Accumulation Area	94575217SL	SS 2	2'	8080	10/10/1994	Soil	0.02	U		0.02
METHOXYCHLOR	PEST/PCB	Drum Accumulation Area	94575218SL	SS 1	2'	8080	10/10/1994	Soil	0.02	U		0.02
METHOXYCHLOR	PEST/PCB	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8080	11/03/1994	Soil	0.2	U		0.2
METHOXYCHLOR	PEST/PCB	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8080	11/03/1994	Soil	0.02	U		0.02
METHOXYCHLOR	PEST/PCB	Cooling Pond	94575229SL	AP-3502	4'-6'	8080	11/07/1994	Soil	0.02	U		0.02
METHOXYCHLOR	PEST/PCB	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8080	11/09/1994	Soil	0.02	U		0.02
METHOXYCHLOR	PEST/PCB	Cooling Pond	94575240SL	AP-3501	5'-7'	8080	11/11/1994	Soil	0.1	U		0.1
METHOXYCHLOR	PEST/PCB	965752BH01	96575225SL	AP-3785	5	8080	10/02/1996	Soil	0.003	U	0.003	0.003
METHOXYCHLOR	PEST/PCB	965752BH03	96575231SL-AVG	AP-3787	2.5	8080	10/03/1996	Soil	0.02	U	0.02	0.02
METHOXYCHLOR	PEST/PCB	965752BH03	96575233SL	AP-3787	5	8080	10/03/1996	Soil	0.005	U	0.005	0.005
METHOXYCHLOR	PEST/PCB	965752BH04	96575238SL	AP-3788	2.5	8080	10/03/1996	Soil	0.003	U	0.003	0.003
METHOXYCHLOR	PEST/PCB	965752BH04	96575239SL-AVG	AP-3788	5	8080	10/03/1996	Soil	0.003	U	0.003	0.003
METHOXYCHLOR	PEST/PCB	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8080	10/06/1994	Soil	0.02	U		0.02
METHOXYCHLOR	PEST/PCB	Drum Accumulation Area	94575203SL	SS 2	6"	8080	10/06/1994	Soil	0.02	U		0.02
METHOXYCHLOR	PEST/PCB	Drum Accumulation Area	94575204SL	SS 3	6"	8080	10/06/1994	Soil	0.02	U		0.02
METHOXYCHLOR	PEST/PCB	Drum Accumulation Area	94575205SL	SS 4	6"	8080	10/06/1994	Soil	0.02	U		0.02
METHOXYCHLOR	PEST/PCB	Drum Accumulation Area	94575206SL	SS 5	6"	8080	10/06/1994	Soil	0.02	U		0.02
METHOXYCHLOR	PEST/PCB	Drum Accumulation Area	94575207SL	SS 6	6"	8080	10/06/1994	Soil	0.02	U		0.02
METHOXYCHLOR	PEST/PCB	Drum Accumulation Area	94575208SL	SS 7	6"	8080	10/06/1994	Soil	0.02	U		0.02
METHOXYCHLOR	PEST/PCB	Drum Accumulation Area	94575209SL	SS 8	6"	8080	10/06/1994	Soil	0.02	U		0.02
METHOXYCHLOR	PEST/PCB	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8080	11/03/1994	Soil	0.3	U		0.3
METHOXYCHLOR	PEST/PCB	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8080	11/03/1994	Soil	0.02	U		0.02
METHOXYCHLOR	PEST/PCB	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8080	11/07/1994	Soil	0.02	U		0.02
METHOXYCHLOR	PEST/PCB	Cooling Pond	94575231SL	AP-3503	0-6'	8080	11/08/1994	Soil	0.02	U		0.02
METHOXYCHLOR	PEST/PCB	Cooling Pond	94575235SL	AP-3504	0-2'	8080	11/09/1994	Soil	0.02	U		0.02
METHOXYCHLOR	PEST/PCB	965752BH03	96575230SL	AP-3787	0	8080	10/03/1996	Soil	0.003	U	0.003	0.02
METHOXYCHLOR	PEST/PCB	965752BH04	96575236SL-AVG	AP-3788	0	8080	10/03/1996	Soil	0.02	U	0.02	0.02
METHYL ETHYL KETONE (2-BUTANONE)	VOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8260	12/08/1994	Sediment	0.045	=		0.02

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
METHYL ETHYL KETONE (2-BUTANONE)	VOC	Cooling Pond	94575242SD	SD-B	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
METHYL ETHYL KETONE (2-BUTANONE)	VOC	Cooling Pond	94575243SD	SD-C	0-6"	8260	12/08/1994	Sediment	0.058	=		0.02
METHYL ETHYL KETONE (2-BUTANONE)	VOC	Cooling Pond	94575244SD	SD-D	0-6"	8260	12/08/1994	Sediment	0.033	=		0.02
METHYL ETHYL KETONE (2-BUTANONE)	VOC	Cooling Pond	94575245SD	SD-E	0-6"	8260	12/08/1994	Sediment	0.02	=		0.02
METHYL ETHYL KETONE (2-BUTANONE)	VOC	Cooling Pond	94575246SD	SD-F	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
METHYL ETHYL KETONE (2-BUTANONE)	VOC	Cooling Pond	94575247SD	SD-G	0-6"	8260	12/08/1994	Sediment	0.04	=		0.02
METHYL ETHYL KETONE (2-BUTANONE)	VOC	Cooling Pond	94575248SD	SD-H	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
METHYL ETHYL KETONE (2-BUTANONE)	VOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8260	09/25/1996	Sediment	0.03	J	0.006	0.04
METHYL ETHYL KETONE (2-BUTANONE)	VOC	119 ft from DP	96575205SD	96-SD5	----	8260	09/25/1996	Sediment	0.058	=	0.006	0.04
METHYL ETHYL KETONE (2-BUTANONE)	VOC	147 ft from DP	96575206SD	96-SD6	----	8260	09/25/1996	Sediment	0.003	U	0.003	0.02
METHYL ETHYL KETONE (2-BUTANONE)	VOC	165 ft from DP	96575208SD	96-SD8	----	8260	09/25/1996	Sediment	0.022	=	0.003	0.02
METHYL ETHYL KETONE (2-BUTANONE)	VOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8260	09/25/1996	Sediment	0.02	J	0.003	0.02
METHYL ETHYL KETONE (2-BUTANONE)	VOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8260	09/25/1996	Sediment	0.009	U	0.009	0.06
METHYL ETHYL KETONE (2-BUTANONE)	VOC	40 ft from DP	96575202SD	96-SD2	----	8260	09/25/1996	Sediment	0.006	U	0.006	0.04
METHYL ETHYL KETONE (2-BUTANONE)	VOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8260	09/25/1996	Sediment	0.035	J	0.006	0.04
METHYL ETHYL KETONE (2-BUTANONE)	VOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8260	09/25/1996	Sediment	0.003	U	0.003	0.02
METHYL ETHYL KETONE (2-BUTANONE)	VOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8260	09/26/1996	Sediment	0.075	J	0.006	0.04
METHYL ETHYL KETONE (2-BUTANONE)	VOC	Drum Accumulation Area	94575210SL	SS 8	2'	8260	10/06/1994	Soil	0.02	U		0.02
METHYL ETHYL KETONE (2-BUTANONE)	VOC	Drum Accumulation Area	94575211SL	SS 7	2'	8260	10/10/1994	Soil	0.02	U		0.02
METHYL ETHYL KETONE (2-BUTANONE)	VOC	Drum Accumulation Area	94575212SL	SS 6	2'	8260	10/10/1994	Soil	0.02	U		0.02
METHYL ETHYL KETONE (2-BUTANONE)	VOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8260	10/10/1994	Soil	0.02	U		0.02
METHYL ETHYL KETONE (2-BUTANONE)	VOC	Drum Accumulation Area	94575215SL	SS 4	2'	8260	10/10/1994	Soil	0.02	U		0.02
METHYL ETHYL KETONE (2-BUTANONE)	VOC	Drum Accumulation Area	94575216SL	SS 3	2'	8260	10/10/1994	Soil	0.02	U		0.02
METHYL ETHYL KETONE (2-BUTANONE)	VOC	Drum Accumulation Area	94575217SL	SS 2	2'	8260	10/10/1994	Soil	0.02	U		0.02
METHYL ETHYL KETONE (2-BUTANONE)	VOC	Drum Accumulation Area	94575218SL	SS 1	2'	8260	10/10/1994	Soil	0.02	U		0.02
METHYL ETHYL KETONE (2-BUTANONE)	VOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8260	11/03/1994	Soil	0.02	U		0.02
METHYL ETHYL KETONE (2-BUTANONE)	VOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8260	11/03/1994	Soil	0.02	U		0.02
METHYL ETHYL KETONE (2-BUTANONE)	VOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8260	11/07/1994	Soil	0.02	U		0.02
METHYL ETHYL KETONE (2-BUTANONE)	VOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8260	11/09/1994	Soil	0.02	U		0.02
METHYL ETHYL KETONE (2-BUTANONE)	VOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8260	11/11/1994	Soil	0.02	U		0.02
METHYL ETHYL KETONE (2-BUTANONE)	VOC	965752BH01	96575225SL	AP-3785	5	8260	10/02/1996	Soil	0.003	U	0.003	0.003
METHYL ETHYL KETONE (2-BUTANONE)	VOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8260	10/03/1996	Soil	0.003	J	0.003	0.003
METHYL ETHYL KETONE (2-BUTANONE)	VOC	965752BH04	96575238SL	AP-3788	2.5	8260	10/03/1996	Soil	0.003	U	0.003	0.003
METHYL ETHYL KETONE (2-BUTANONE)	VOC	965752BH04	96575239SL-AVG	AP-3788	5	8260	10/03/1996	Soil	0.003	U	0.003	0.003
METHYL ETHYL KETONE (2-BUTANONE)	VOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8260	10/06/1994	Soil	0.02	U		0.02
METHYL ETHYL KETONE (2-BUTANONE)	VOC	Drum Accumulation Area	94575203SL	SS 2	6"	8260	10/06/1994	Soil	0.02	U		0.02
METHYL ETHYL KETONE (2-BUTANONE)	VOC	Drum Accumulation Area	94575204SL	SS 3	6"	8260	10/06/1994	Soil	0.02	U		0.02
METHYL ETHYL KETONE (2-BUTANONE)	VOC	Drum Accumulation Area	94575205SL	SS 4	6"	8260	10/06/1994	Soil	0.02	U		0.02
METHYL ETHYL KETONE (2-BUTANONE)	VOC	Drum Accumulation Area	94575206SL	SS 5	6"	8260	10/06/1994	Soil	0.02	U		0.02
METHYL ETHYL KETONE (2-BUTANONE)	VOC	Drum Accumulation Area	94575207SL	SS 6	6"	8260	10/06/1994	Soil	0.02	U		0.02
METHYL ETHYL KETONE (2-BUTANONE)	VOC	Drum Accumulation Area	94575208SL	SS 7	6"	8260	10/06/1994	Soil	0.02	U		0.02
METHYL ETHYL KETONE (2-BUTANONE)	VOC	Drum Accumulation Area	94575209SL	SS 8	6"	8260	10/06/1994	Soil	0.02	U		0.02
METHYL ETHYL KETONE (2-BUTANONE)	VOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8260	11/03/1994	Soil	0.02	U		0.02
METHYL ETHYL KETONE (2-BUTANONE)	VOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8260	11/03/1994	Soil	0.02	U		0.02
METHYL ETHYL KETONE (2-BUTANONE)	VOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8260	11/07/1994	Soil	0.105	=		0.02
METHYL ETHYL KETONE (2-BUTANONE)	VOC	Cooling Pond	94575231SL	AP-3503	0-6'	8260	11/08/1994	Soil	0.02	U		0.02
METHYL ETHYL KETONE (2-BUTANONE)	VOC	Cooling Pond	94575235SL	AP-3504	0-2'	8260	11/09/1994	Soil	0.02	U		0.02
METHYL ETHYL KETONE (2-BUTANONE)	VOC	965752BH03	96575230SL	AP-3787	0	8260	10/03/1996	Soil	0.004	J	0.003	0.02
METHYL ETHYL KETONE (2-BUTANONE)	VOC	965752BH04	96575236SL-AVG	AP-3788	0	8260	10/03/1996	Soil	0.012	J	0.003	0.02
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	VOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	VOC	Cooling Pond	94575242SD	SD-B	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	VOC	Cooling Pond	94575243SD	SD-C	0-6"	8260	12/08/1994	Sediment	0.04	U		0.04
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	VOC	Cooling Pond	94575244SD	SD-D	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	VOC	Cooling Pond	94575245SD	SD-E	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	VOC	Cooling Pond	94575246SD	SD-F	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	VOC	Cooling Pond	94575247SD	SD-G	0-6"	8260	12/08/1994	Sediment	0.04	U		0.04
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	VOC	Cooling Pond	94575248SD	SD-H	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	VOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8260	09/25/1996	Sediment	0.008	U	0.008	0.04
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	VOC	119 ft from DP	96575205SD	96-SD5	----	8260	09/25/1996	Sediment	0.008	U	0.008	0.04
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	VOC	147 ft from DP	96575206SD	96-SD6	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.02
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	VOC	165 ft from DP	96575208SD	96-SD8	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.02
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	VOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.02

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	VOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8260	09/25/1996	Sediment	0.02	U	0.02	0.06
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	VOC	40 ft from DP	96575202SD	96-SD2	----	8260	09/25/1996	Sediment	0.008	U	0.008	0.04
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	VOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8260	09/25/1996	Sediment	0.008	U	0.008	0.04
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	VOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.02
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	VOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8260	09/26/1996	Sediment	0.008	U	0.008	0.04
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	VOC	Drum Accumulation Area	94575210SL	SS 8	2'	8260	10/06/1994	Soil	0.02	U		0.02
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	VOC	Drum Accumulation Area	94575211SL	SS 7	2'	8260	10/10/1994	Soil	0.02	U		0.02
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	VOC	Drum Accumulation Area	94575212SL	SS 6	2'	8260	10/10/1994	Soil	0.02	U		0.02
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	VOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8260	10/10/1994	Soil	0.02	U		0.02
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	VOC	Drum Accumulation Area	94575215SL	SS 4	2'	8260	10/10/1994	Soil	0.02	U		0.02
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	VOC	Drum Accumulation Area	94575216SL	SS 3	2'	8260	10/10/1994	Soil	0.02	U		0.02
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	VOC	Drum Accumulation Area	94575217SL	SS 2	2'	8260	10/10/1994	Soil	0.02	U		0.02
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	VOC	Drum Accumulation Area	94575218SL	SS 1	2'	8260	10/10/1994	Soil	0.02	U		0.02
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	VOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8260	11/03/1994	Soil	0.02	U		0.02
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	VOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8260	11/03/1994	Soil	0.02	U		0.02
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	VOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8260	11/07/1994	Soil	0.02	U		0.02
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	VOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8260	11/09/1994	Soil	0.02	U		0.02
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	VOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8260	11/11/1994	Soil	0.02	U		0.02
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	VOC	965752BH01	96575225SL	AP-3785	5	8260	10/02/1996	Soil	0.004	U	0.004	0.004
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	VOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8260	10/03/1996	Soil	0.004	U	0.004	0.004
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	VOC	965752BH04	96575238SL	AP-3788	2.5	8260	10/03/1996	Soil	0.004	U	0.004	0.004
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	VOC	965752BH04	96575239SL-AVG	AP-3788	5	8260	10/03/1996	Soil	0.004	U	0.004	0.004
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	VOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8260	10/06/1994	Soil	0.02	U		0.02
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	VOC	Drum Accumulation Area	94575203SL	SS 2	6"	8260	10/06/1994	Soil	0.02	U		0.02
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	VOC	Drum Accumulation Area	94575204SL	SS 3	6"	8260	10/06/1994	Soil	0.02	U		0.02
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	VOC	Drum Accumulation Area	94575205SL	SS 4	6"	8260	10/06/1994	Soil	0.02	U		0.02
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	VOC	Drum Accumulation Area	94575206SL	SS 5	6"	8260	10/06/1994	Soil	0.02	U		0.02
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	VOC	Drum Accumulation Area	94575207SL	SS 6	6"	8260	10/06/1994	Soil	0.02	U		0.02
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	VOC	Drum Accumulation Area	94575208SL	SS 7	6"	8260	10/06/1994	Soil	0.02	U		0.02
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	VOC	Drum Accumulation Area	94575209SL	SS 8	6"	8260	10/06/1994	Soil	0.02	U		0.02
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	VOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8260	11/03/1994	Soil	0.02	U		0.02
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	VOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8260	11/03/1994	Soil	0.02	U		0.02
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	VOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8260	11/07/1994	Soil	0.02	U		0.02
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	VOC	Cooling Pond	94575231SL	AP-3503	0-6'	8260	11/08/1994	Soil	0.02	U		0.02
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	VOC	Cooling Pond	94575235SL	AP-3504	0-2'	8260	11/09/1994	Soil	0.02	U		0.02
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	VOC	965752BH03	96575230SL	AP-3787	0	8260	10/03/1996	Soil	0.004	U	0.004	0.02
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	VOC	965752BH04	96575236SL-AVG	AP-3788	0	8260	10/03/1996	Soil	0.004	U	0.004	0.02
METHYLENE CHLORIDE	VOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
METHYLENE CHLORIDE	VOC	Cooling Pond	94575242SD	SD-B	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
METHYLENE CHLORIDE	VOC	Cooling Pond	94575243SD	SD-C	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
METHYLENE CHLORIDE	VOC	Cooling Pond	94575244SD	SD-D	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
METHYLENE CHLORIDE	VOC	Cooling Pond	94575245SD	SD-E	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
METHYLENE CHLORIDE	VOC	Cooling Pond	94575246SD	SD-F	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
METHYLENE CHLORIDE	VOC	Cooling Pond	94575247SD	SD-G	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
METHYLENE CHLORIDE	VOC	Cooling Pond	94575248SD	SD-H	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
METHYLENE CHLORIDE	VOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8260	09/25/1996	Sediment	0.006	U	0.006	0.02
METHYLENE CHLORIDE	VOC	119 ft from DP	96575205SD	96-SD5	----	8260	09/25/1996	Sediment	0.006	U	0.006	0.02
METHYLENE CHLORIDE	VOC	147 ft from DP	96575206SD	96-SD6	----	8260	09/25/1996	Sediment	0.003	U	0.003	0.01
METHYLENE CHLORIDE	VOC	165 ft from DP	96575208SD	96-SD8	----	8260	09/25/1996	Sediment	0.003	U	0.003	0.01
METHYLENE CHLORIDE	VOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8260	09/25/1996	Sediment	0.003	U	0.003	0.01
METHYLENE CHLORIDE	VOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8260	09/25/1996	Sediment	0.009	U	0.009	0.03
METHYLENE CHLORIDE	VOC	40 ft from DP	96575202SD	96-SD2	----	8260	09/25/1996	Sediment	0.006	U	0.006	0.02
METHYLENE CHLORIDE	VOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8260	09/25/1996	Sediment	0.006	U	0.006	0.02
METHYLENE CHLORIDE	VOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8260	09/25/1996	Sediment	0.003	U	0.003	0.01
METHYLENE CHLORIDE	VOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8260	09/26/1996	Sediment	0.006	U	0.006	0.02
METHYLENE CHLORIDE	VOC	Drum Accumulation Area	94575210SL	SS 8	2'	8260	10/06/1994	Soil	0.01	U		0.01
METHYLENE CHLORIDE	VOC	Drum Accumulation Area	94575211SL	SS 7	2'	8260	10/10/1994	Soil	0.01	U		0.01
METHYLENE CHLORIDE	VOC	Drum Accumulation Area	94575212SL	SS 6	2'	8260	10/10/1994	Soil	0.01	U		0.01
METHYLENE CHLORIDE	VOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8260	10/10/1994	Soil	0.01	U		0.01
METHYLENE CHLORIDE	VOC	Drum Accumulation Area	94575215SL	SS 4	2'	8260	10/10/1994	Soil	0.01	U		0.01
METHYLENE CHLORIDE	VOC	Drum Accumulation Area	94575216SL	SS 3	2'	8260	10/10/1994	Soil	0.01	U		0.01
METHYLENE CHLORIDE	VOC	Drum Accumulation Area	94575217SL	SS 2	2'	8260	10/10/1994	Soil	0.01	U		0.01

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
METHYLENE CHLORIDE	VOC	Drum Accumulation Area	94575218SL	SS 1	2'	8260	10/10/1994	Soil	0.01	U		0.01
METHYLENE CHLORIDE	VOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8260	11/03/1994	Soil	0.01	U		0.01
METHYLENE CHLORIDE	VOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8260	11/03/1994	Soil	0.01	U		0.01
METHYLENE CHLORIDE	VOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8260	11/07/1994	Soil	0.01	U		0.01
METHYLENE CHLORIDE	VOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8260	11/09/1994	Soil	0.01	U		0.01
METHYLENE CHLORIDE	VOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8260	11/11/1994	Soil	0.01	U		0.01
METHYLENE CHLORIDE	VOC	965752BH01	96575225SL	AP-3785	5	8260	10/02/1996	Soil	0.003	U	0.003	0.003
METHYLENE CHLORIDE	VOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8260	10/03/1996	Soil	0.003	U	0.003	0.003
METHYLENE CHLORIDE	VOC	965752BH04	96575238SL	AP-3788	2.5	8260	10/03/1996	Soil	0.003	U	0.003	0.003
METHYLENE CHLORIDE	VOC	965752BH04	96575239SL-AVG	AP-3788	5	8260	10/03/1996	Soil	0.003	U	0.003	0.003
METHYLENE CHLORIDE	VOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8260	10/06/1994	Soil	0.01	U		0.01
METHYLENE CHLORIDE	VOC	Drum Accumulation Area	94575203SL	SS 2	6"	8260	10/06/1994	Soil	0.01	U		0.01
METHYLENE CHLORIDE	VOC	Drum Accumulation Area	94575204SL	SS 3	6"	8260	10/06/1994	Soil	0.01	U		0.01
METHYLENE CHLORIDE	VOC	Drum Accumulation Area	94575205SL	SS 4	6"	8260	10/06/1994	Soil	0.01	U		0.01
METHYLENE CHLORIDE	VOC	Drum Accumulation Area	94575206SL	SS 5	6"	8260	10/06/1994	Soil	0.01	U		0.01
METHYLENE CHLORIDE	VOC	Drum Accumulation Area	94575207SL	SS 6	6"	8260	10/06/1994	Soil	0.01	U		0.01
METHYLENE CHLORIDE	VOC	Drum Accumulation Area	94575208SL	SS 7	6"	8260	10/06/1994	Soil	0.01	U		0.01
METHYLENE CHLORIDE	VOC	Drum Accumulation Area	94575209SL	SS 8	6"	8260	10/06/1994	Soil	0.01	U		0.01
METHYLENE CHLORIDE	VOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8260	11/03/1994	Soil	0.01	U		0.01
METHYLENE CHLORIDE	VOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8260	11/03/1994	Soil	0.01	U		0.01
METHYLENE CHLORIDE	VOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8260	11/07/1994	Soil	0.01	U		0.01
METHYLENE CHLORIDE	VOC	Cooling Pond	94575231SL	AP-3503	0-6'	8260	11/08/1994	Soil	0.01	U		0.01
METHYLENE CHLORIDE	VOC	Cooling Pond	94575235SL	AP-3504	0-2'	8260	11/09/1994	Soil	0.02	=		0.01
METHYLENE CHLORIDE	VOC	965752BH03	96575230SL	AP-3787	0	8260	10/03/1996	Soil	0.003	U	0.003	0.01
METHYLENE CHLORIDE	VOC	965752BH04	96575236SL-AVG	AP-3788	0	8260	10/03/1996	Soil	0.003	U	0.003	0.01
M-XYLENE (1,3-DIMETHYLBENZENE)	VOC	Tank 1109; BH-12	90FRUST86 soil	AP-2982	5-6.5'	8020	08/21/1990	Soil	0.012	U		0.012
M-XYLENE (1,3-DIMETHYLBENZENE)	VOC	Tank 1109; BH-13	90FRUST90 soil	AP-2983	5-5.5'	8020	08/21/1990	Soil	0.011	U		0.011
NAPHTHALENE	VOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
NAPHTHALENE	VOC	Cooling Pond	94575242SD	SD-B	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
NAPHTHALENE	VOC	Cooling Pond	94575243SD	SD-C	0-6"	8260	12/08/1994	Sediment	0.04	U		0.04
NAPHTHALENE	VOC	Cooling Pond	94575244SD	SD-D	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
NAPHTHALENE	VOC	Cooling Pond	94575245SD	SD-E	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
NAPHTHALENE	VOC	Cooling Pond	94575246SD	SD-F	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
NAPHTHALENE	VOC	Cooling Pond	94575247SD	SD-G	0-6"	8260	12/08/1994	Sediment	0.04	U		0.04
NAPHTHALENE	VOC	Cooling Pond	94575248SD	SD-H	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
NAPHTHALENE	VOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.04
NAPHTHALENE	VOC	119 ft from DP	96575205SD	96-SD5	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.04
NAPHTHALENE	VOC	147 ft from DP	96575206SD	96-SD6	----	8260	09/25/1996	Sediment	0.0007	J	0.0007	0.02
NAPHTHALENE	VOC	165 ft from DP	96575208SD	96-SD8	----	8260	09/25/1996	Sediment	0.0007	U	0.0007	0.02
NAPHTHALENE	VOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8260	09/25/1996	Sediment	0.0007	U	0.0007	0.02
NAPHTHALENE	VOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8260	09/25/1996	Sediment	0.003	U	0.003	0.06
NAPHTHALENE	VOC	40 ft from DP	96575202SD	96-SD2	----	8260	09/25/1996	Sediment	0.002	J	0.002	0.04
NAPHTHALENE	VOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.04
NAPHTHALENE	VOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8260	09/25/1996	Sediment	0.0007	U	0.0007	0.02
NAPHTHALENE	VOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8260	09/26/1996	Sediment	0.002	U	0.002	0.04
NAPHTHALENE	VOC	Downstream end of 35-752 pond	975752007SD-AVG	96-SD007	0	SIM	10/21/1997	Sediment	0.0305	=	0.0004	0.005
NAPHTHALENE	VOC	Drum Accumulation Area	94575210SL	SS 8	2'	8260	10/06/1994	Soil	0.02	U		0.02
NAPHTHALENE	VOC	Drum Accumulation Area	94575211SL	SS 7	2'	8260	10/10/1994	Soil	0.02	U		0.02
NAPHTHALENE	VOC	Drum Accumulation Area	94575212SL	SS 6	2'	8260	10/10/1994	Soil	0.02	U		0.02
NAPHTHALENE	VOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8260	10/10/1994	Soil	0.02	U		0.02
NAPHTHALENE	VOC	Drum Accumulation Area	94575215SL	SS 4	2'	8260	10/10/1994	Soil	0.02	U		0.02
NAPHTHALENE	VOC	Drum Accumulation Area	94575216SL	SS 3	2'	8260	10/10/1994	Soil	0.02	U		0.02
NAPHTHALENE	VOC	Drum Accumulation Area	94575217SL	SS 2	2'	8260	10/10/1994	Soil	0.02	U		0.02
NAPHTHALENE	VOC	Drum Accumulation Area	94575218SL	SS 1	2'	8260	10/10/1994	Soil	0.02	U		0.02
NAPHTHALENE	VOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8260	11/03/1994	Soil	0.02	U		0.02
NAPHTHALENE	VOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8260	11/03/1994	Soil	0.02	U		0.02
NAPHTHALENE	VOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8260	11/07/1994	Soil	0.02	U		0.02
NAPHTHALENE	VOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8260	11/09/1994	Soil	0.02	U		0.02
NAPHTHALENE	VOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8260	11/11/1994	Soil	0.02	U		0.02
NAPHTHALENE	VOC	965752BH01	96575225SL	AP-3785	5	8260	10/02/1996	Soil	0.0007	U	0.0007	0.0007
NAPHTHALENE	VOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8260	10/03/1996	Soil	0.0007	U	0.0007	0.0007
NAPHTHALENE	VOC	965752BH04	96575238SL	AP-3788	2.5	8260	10/03/1996	Soil	0.0007	U	0.0007	0.0007

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
NAPHTHALENE	VOC	965752BH04	96575239SL-AVG	AP-3788	5	8260	10/03/1996	Soil	0.0007	U	0.0007	0.0007
NAPHTHALENE	VOC	965752BH03	96575233SL	AP-3787	5	8270	10/03/1996	Soil	0.06	U	0.06	0.06
NAPHTHALENE	VOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8260	10/06/1994	Soil	0.02	U		0.02
NAPHTHALENE	VOC	Drum Accumulation Area	94575203SL	SS 2	6"	8260	10/06/1994	Soil	0.02	U		0.02
NAPHTHALENE	VOC	Drum Accumulation Area	94575204SL	SS 3	6"	8260	10/06/1994	Soil	0.02	U		0.02
NAPHTHALENE	VOC	Drum Accumulation Area	94575205SL	SS 4	6"	8260	10/06/1994	Soil	0.02	U		0.02
NAPHTHALENE	VOC	Drum Accumulation Area	94575206SL	SS 5	6"	8260	10/06/1994	Soil	0.02	U		0.02
NAPHTHALENE	VOC	Drum Accumulation Area	94575207SL	SS 6	6"	8260	10/06/1994	Soil	0.02	U		0.02
NAPHTHALENE	VOC	Drum Accumulation Area	94575208SL	SS 7	6"	8260	10/06/1994	Soil	0.02	U		0.02
NAPHTHALENE	VOC	Drum Accumulation Area	94575209SL	SS 8	6"	8260	10/06/1994	Soil	0.02	U		0.02
NAPHTHALENE	VOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8260	11/03/1994	Soil	0.02	U		0.02
NAPHTHALENE	VOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8260	11/03/1994	Soil	0.02	U		0.02
NAPHTHALENE	VOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8260	11/07/1994	Soil	0.028	UD		0.02
NAPHTHALENE	VOC	Cooling Pond	94575231SL	AP-3503	0-6'	8260	11/08/1994	Soil	0.02	U		0.02
NAPHTHALENE	VOC	Cooling Pond	94575235SL	AP-3504	0-2'	8260	11/09/1994	Soil	0.02	U		0.02
NAPHTHALENE	VOC	965752BH03	96575230SL	AP-3787	0	8260	10/03/1996	Soil	0.0007	U	0.0007	0.02
NAPHTHALENE	VOC	965752BH04	96575236SL-AVG	AP-3788	0	8260	10/03/1996	Soil	0.0007	U	0.0007	0.02
n-BUTYLBENZENE	VOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
n-BUTYLBENZENE	VOC	Cooling Pond	94575242SD	SD-B	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
n-BUTYLBENZENE	VOC	Cooling Pond	94575243SD	SD-C	0-6"	8260	12/08/1994	Sediment	0.04	U		0.04
n-BUTYLBENZENE	VOC	Cooling Pond	94575244SD	SD-D	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
n-BUTYLBENZENE	VOC	Cooling Pond	94575245SD	SD-E	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
n-BUTYLBENZENE	VOC	Cooling Pond	94575246SD	SD-F	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
n-BUTYLBENZENE	VOC	Cooling Pond	94575247SD	SD-G	0-6"	8260	12/08/1994	Sediment	0.04	U		0.04
n-BUTYLBENZENE	VOC	Cooling Pond	94575248SD	SD-H	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
n-BUTYLBENZENE	VOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.04
n-BUTYLBENZENE	VOC	119 ft from DP	96575205SD	96-SD5	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.04
n-BUTYLBENZENE	VOC	147 ft from DP	96575206SD	96-SD6	----	8260	09/25/1996	Sediment	0.0006	U	0.0006	0.02
n-BUTYLBENZENE	VOC	165 ft from DP	96575208SD	96-SD8	----	8260	09/25/1996	Sediment	0.0006	U	0.0006	0.02
n-BUTYLBENZENE	VOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8260	09/25/1996	Sediment	0.0006	U	0.0006	0.02
n-BUTYLBENZENE	VOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.06
n-BUTYLBENZENE	VOC	40 ft from DP	96575202SD	96-SD2	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.04
n-BUTYLBENZENE	VOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.04
n-BUTYLBENZENE	VOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8260	09/25/1996	Sediment	0.0006	U	0.0006	0.02
n-BUTYLBENZENE	VOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8260	09/26/1996	Sediment	0.002	U	0.002	0.04
n-BUTYLBENZENE	VOC	Drum Accumulation Area	94575210SL	SS 8	2'	8260	10/06/1994	Soil	0.02	U		0.02
n-BUTYLBENZENE	VOC	Drum Accumulation Area	94575211SL	SS 7	2'	8260	10/10/1994	Soil	0.02	U		0.02
n-BUTYLBENZENE	VOC	Drum Accumulation Area	94575212SL	SS 6	2'	8260	10/10/1994	Soil	0.02	U		0.02
n-BUTYLBENZENE	VOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8260	10/10/1994	Soil	0.02	U		0.02
n-BUTYLBENZENE	VOC	Drum Accumulation Area	94575215SL	SS 4	2'	8260	10/10/1994	Soil	0.02	U		0.02
n-BUTYLBENZENE	VOC	Drum Accumulation Area	94575216SL	SS 3	2'	8260	10/10/1994	Soil	0.02	U		0.02
n-BUTYLBENZENE	VOC	Drum Accumulation Area	94575217SL	SS 2	2'	8260	10/10/1994	Soil	0.02	U		0.02
n-BUTYLBENZENE	VOC	Drum Accumulation Area	94575218SL	SS 1	2'	8260	10/10/1994	Soil	0.02	U		0.02
n-BUTYLBENZENE	VOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8260	11/03/1994	Soil	0.02	U		0.02
n-BUTYLBENZENE	VOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8260	11/03/1994	Soil	0.02	U		0.02
n-BUTYLBENZENE	VOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8260	11/07/1994	Soil	0.02	U		0.02
n-BUTYLBENZENE	VOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8260	11/09/1994	Soil	0.02	U		0.02
n-BUTYLBENZENE	VOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8260	11/11/1994	Soil	0.02	U		0.02
n-BUTYLBENZENE	VOC	965752BH01	96575225SL	AP-3785	5	8260	10/02/1996	Soil	0.0006	U	0.0006	0.0006
n-BUTYLBENZENE	VOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8260	10/03/1996	Soil	0.0006	U	0.0006	0.0006
n-BUTYLBENZENE	VOC	965752BH04	96575238SL	AP-3788	2.5	8260	10/03/1996	Soil	0.0006	U	0.0006	0.0006
n-BUTYLBENZENE	VOC	965752BH04	96575239SL-AVG	AP-3788	5	8260	10/03/1996	Soil	0.0006	U	0.0006	0.0006
n-BUTYLBENZENE	VOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8260	10/06/1994	Soil	0.02	U		0.02
n-BUTYLBENZENE	VOC	Drum Accumulation Area	94575203SL	SS 2	6"	8260	10/06/1994	Soil	0.02	U		0.02
n-BUTYLBENZENE	VOC	Drum Accumulation Area	94575204SL	SS 3	6"	8260	10/06/1994	Soil	0.02	U		0.02
n-BUTYLBENZENE	VOC	Drum Accumulation Area	94575205SL	SS 4	6"	8260	10/06/1994	Soil	0.02	U		0.02
n-BUTYLBENZENE	VOC	Drum Accumulation Area	94575206SL	SS 5	6"	8260	10/06/1994	Soil	0.02	U		0.02
n-BUTYLBENZENE	VOC	Drum Accumulation Area	94575207SL	SS 6	6"	8260	10/06/1994	Soil	0.02	U		0.02
n-BUTYLBENZENE	VOC	Drum Accumulation Area	94575208SL	SS 7	6"	8260	10/06/1994	Soil	0.02	U		0.02
n-BUTYLBENZENE	VOC	Drum Accumulation Area	94575209SL	SS 8	6"	8260	10/06/1994	Soil	0.02	U		0.02
n-BUTYLBENZENE	VOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8260	11/03/1994	Soil	0.02	U		0.02
n-BUTYLBENZENE	VOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8260	11/03/1994	Soil	0.02	U		0.02

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
n-BUTYLBENZENE	VOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8260	11/07/1994	Soil	0.02	U		0.02
n-BUTYLBENZENE	VOC	Cooling Pond	94575231SL	AP-3503	0-6'	8260	11/08/1994	Soil	0.02	U		0.02
n-BUTYLBENZENE	VOC	Cooling Pond	94575235SL	AP-3504	0-2'	8260	11/09/1994	Soil	0.02	U		0.02
n-BUTYLBENZENE	VOC	965752BH03	96575230SL	AP-3787	0	8260	10/03/1996	Soil	0.0006	U	0.0006	0.02
n-BUTYLBENZENE	VOC	965752BH04	96575236SL-AVG	AP-3788	0	8260	10/03/1996	Soil	0.0006	U	0.0006	0.02
NICKEL	METAL	Cooling Pond	94575240SD-AVG	SD-A	0-6"	METALS	12/08/1994	Sediment	29.5	=		10
NICKEL	METAL	Cooling Pond	94575242SD	SD-B	0-6"	METALS	12/08/1994	Sediment	37	=		10
NICKEL	METAL	Cooling Pond	94575243SD	SD-C	0-6"	METALS	12/08/1994	Sediment	31	=		10
NICKEL	METAL	Cooling Pond	94575244SD	SD-D	0-6"	METALS	12/08/1994	Sediment	42	=		10
NICKEL	METAL	Cooling Pond	94575245SD	SD-E	0-6"	METALS	12/08/1994	Sediment	35	=		10
NICKEL	METAL	Cooling Pond	94575246SD	SD-F	0-6"	METALS	12/08/1994	Sediment	40	=		10
NICKEL	METAL	Cooling Pond	94575247SD	SD-G	0-6"	METALS	12/08/1994	Sediment	44	=		10
NICKEL	METAL	Cooling Pond	94575248SD	SD-H	0-6"	METALS	12/08/1994	Sediment	40	=		10
NICKEL	METAL	Drum Accumulation Area	94575210SL	SS 8	2'	METALS	10/06/1994	Soil	29	=		10
NICKEL	METAL	Drum Accumulation Area	94575211SL	SS 7	2'	METALS	10/10/1994	Soil	40	=		10
NICKEL	METAL	Drum Accumulation Area	94575212SL	SS 6	2'	METALS	10/10/1994	Soil	34	=		10
NICKEL	METAL	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	METALS	10/10/1994	Soil	35	=		10
NICKEL	METAL	Drum Accumulation Area	94575215SL	SS 4	2'	METALS	10/10/1994	Soil	36	=		10
NICKEL	METAL	Drum Accumulation Area	94575216SL	SS 3	2'	METALS	10/10/1994	Soil	27	=		10
NICKEL	METAL	Drum Accumulation Area	94575217SL	SS 2	2'	METALS	10/10/1994	Soil	44	=		10
NICKEL	METAL	Drum Accumulation Area	94575218SL	SS 1	2'	METALS	10/10/1994	Soil	37	=		10
NICKEL	METAL	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	METALS	11/03/1994	Soil	30	=		10
NICKEL	METAL	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	METALS	11/03/1994	Soil	33	=		10
NICKEL	METAL	Cooling Pond	94575229SL	AP-3502	4'-6'	METALS	11/07/1994	Soil	37	=		10
NICKEL	METAL	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	METALS	11/09/1994	Soil	33	=		10
NICKEL	METAL	Cooling Pond	94575240SL	AP-3501	5'-7'	METALS	11/11/1994	Soil	33	=		10
NICKEL	METAL	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	METALS	10/06/1994	Soil	37.5	=		10
NICKEL	METAL	Drum Accumulation Area	94575203SL	SS 2	6"	METALS	10/06/1994	Soil	33	=		10
NICKEL	METAL	Drum Accumulation Area	94575204SL	SS 3	6"	METALS	10/06/1994	Soil	49	=		10
NICKEL	METAL	Drum Accumulation Area	94575205SL	SS 4	6"	METALS	10/06/1994	Soil	30	=		10
NICKEL	METAL	Drum Accumulation Area	94575206SL	SS 5	6"	METALS	10/06/1994	Soil	23	=		10
NICKEL	METAL	Drum Accumulation Area	94575207SL	SS 6	6"	METALS	10/06/1994	Soil	27	=		10
NICKEL	METAL	Drum Accumulation Area	94575208SL	SS 7	6"	METALS	10/06/1994	Soil	30	=		10
NICKEL	METAL	Drum Accumulation Area	94575209SL	SS 8	6"	METALS	10/06/1994	Soil	34	=		10
NICKEL	METAL	Drum Accumulation Area	94575219SL	AP-3505	0-4'	METALS	11/03/1994	Soil	31	=		10
NICKEL	METAL	Drum Accumulation Area	94575223SL	AP-3506	0-2'	METALS	11/03/1994	Soil	33	=		10
NICKEL	METAL	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	METALS	11/07/1994	Soil	32	=		10
NICKEL	METAL	Cooling Pond	94575231SL	AP-3503	0-6'	METALS	11/08/1994	Soil	38	=		10
NICKEL	METAL	Cooling Pond	94575235SL	AP-3504	0-2'	METALS	11/09/1994	Soil	29	=		10
NITROBENZENE	SVOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
NITROBENZENE	SVOC	Cooling Pond	94575242SD	SD-B	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
NITROBENZENE	SVOC	Cooling Pond	94575243SD	SD-C	0-6"	8270	12/08/1994	Sediment	4	U		4
NITROBENZENE	SVOC	Cooling Pond	94575244SD	SD-D	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
NITROBENZENE	SVOC	Cooling Pond	94575245SD	SD-E	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
NITROBENZENE	SVOC	Cooling Pond	94575246SD	SD-F	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
NITROBENZENE	SVOC	Cooling Pond	94575247SD	SD-G	0-6"	8270	12/08/1994	Sediment	0.8	U		0.8
NITROBENZENE	SVOC	Cooling Pond	94575248SD	SD-H	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
NITROBENZENE	SVOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8270	09/25/1996	Sediment	0.6	U	0.6	3
NITROBENZENE	SVOC	119 ft from DP	96575205SD	96-SD5	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7
NITROBENZENE	SVOC	147 ft from DP	96575206SD	96-SD6	----	8270	09/25/1996	Sediment	0.06	U	0.06	0.3
NITROBENZENE	SVOC	165 ft from DP	96575208SD	96-SD8	----	8270	09/25/1996	Sediment	0.06	U	0.06	0.3
NITROBENZENE	SVOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8270	09/25/1996	Sediment	0.06	U	0.06	0.3
NITROBENZENE	SVOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7
NITROBENZENE	SVOC	40 ft from DP	96575202SD	96-SD2	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7
NITROBENZENE	SVOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7
NITROBENZENE	SVOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8270	09/25/1996	Sediment	0.06	U	0.06	0.3
NITROBENZENE	SVOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8270	09/26/1996	Sediment	0.3	U	0.3	1.2
NITROBENZENE	SVOC	Drum Accumulation Area	94575210SL	SS 8	2'	8270	10/06/1994	Soil	0.3	U		0.3
NITROBENZENE	SVOC	Drum Accumulation Area	94575211SL	SS 7	2'	8270	10/10/1994	Soil	0.3	U		0.3
NITROBENZENE	SVOC	Drum Accumulation Area	94575212SL	SS 6	2'	8270	10/10/1994	Soil	0.3	U		0.3
NITROBENZENE	SVOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8270	10/10/1994	Soil	0.5	U		0.5
NITROBENZENE	SVOC	Drum Accumulation Area	94575215SL	SS 4	2'	8270	10/10/1994	Soil	0.3	U		0.3

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Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
NITROBENZENE	SVOC	Drum Accumulation Area	94575216SL	SS 3	2'	8270	10/10/1994	Soil	0.3	U		0.3
NITROBENZENE	SVOC	Drum Accumulation Area	94575217SL	SS 2	2'	8270	10/10/1994	Soil	0.3	U		0.3
NITROBENZENE	SVOC	Drum Accumulation Area	94575218SL	SS 1	2'	8270	10/10/1994	Soil	0.3	U		0.3
NITROBENZENE	SVOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8270	11/03/1994	Soil	0.3	U		0.3
NITROBENZENE	SVOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8270	11/03/1994	Soil	0.3	U		0.3
NITROBENZENE	SVOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8270	11/07/1994	Soil	0.3	U		0.3
NITROBENZENE	SVOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8270	11/09/1994	Soil	0.3	U		0.3
NITROBENZENE	SVOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8270	11/11/1994	Soil	0.3	U		0.3
NITROBENZENE	SVOC	965752BH01	96575225SL	AP-3785	5	8270	10/02/1996	Soil	0.06	U	0.06	0.06
NITROBENZENE	SVOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8270	10/03/1996	Soil	0.2	U	0.2	0.2
NITROBENZENE	SVOC	965752BH03	96575233SL	AP-3787	5	8270	10/03/1996	Soil	0.06	U	0.06	0.06
NITROBENZENE	SVOC	965752BH04	96575238SL	AP-3788	2.5	8270	10/03/1996	Soil	0.06	U	0.06	0.06
NITROBENZENE	SVOC	965752BH04	96575239SL-AVG	AP-3788	5	8270	10/03/1996	Soil	0.06	U	0.06	0.06
NITROBENZENE	SVOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8270	10/06/1994	Soil	0.3	U		0.3
NITROBENZENE	SVOC	Drum Accumulation Area	94575203SL	SS 2	6"	8270	10/06/1994	Soil	0.3	U		0.3
NITROBENZENE	SVOC	Drum Accumulation Area	94575204SL	SS 3	6"	8270	10/06/1994	Soil	0.3	U		0.3
NITROBENZENE	SVOC	Drum Accumulation Area	94575205SL	SS 4	6"	8270	10/06/1994	Soil	0.3	U		0.3
NITROBENZENE	SVOC	Drum Accumulation Area	94575206SL	SS 5	6"	8270	10/06/1994	Soil	0.3	U		0.3
NITROBENZENE	SVOC	Drum Accumulation Area	94575207SL	SS 6	6"	8270	10/06/1994	Soil	0.3	U		0.3
NITROBENZENE	SVOC	Drum Accumulation Area	94575208SL	SS 7	6"	8270	10/06/1994	Soil	0.3	U		0.3
NITROBENZENE	SVOC	Drum Accumulation Area	94575209SL	SS 8	6"	8270	10/06/1994	Soil	0.3	U		0.3
NITROBENZENE	SVOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8270	11/03/1994	Soil	0.6	U		0.6
NITROBENZENE	SVOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8270	11/03/1994	Soil	0.6	U		0.6
NITROBENZENE	SVOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8270	11/07/1994	Soil	0.3	U		0.3
NITROBENZENE	SVOC	Cooling Pond	94575231SL	AP-3503	0-6'	8270	11/08/1994	Soil	0.3	U		0.3
NITROBENZENE	SVOC	Cooling Pond	94575235SL	AP-3504	0-2'	8270	11/09/1994	Soil	0.3	U		0.3
NITROBENZENE	SVOC	965752BH03	96575230SL	AP-3787	0	8270	10/03/1996	Soil	0.06	U	0.06	0.3
NITROBENZENE	SVOC	965752BH04	96575236SL-AVG	AP-3788	0	8270	10/03/1996	Soil	0.06	U	0.06	0.3
N-NITROSODIMETHYLAMINE	SVOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8270	12/08/1994	Sediment	2	U		2
N-NITROSODIMETHYLAMINE	SVOC	Cooling Pond	94575242SD	SD-B	0-6"	8270	12/08/1994	Sediment	2	U		2
N-NITROSODIMETHYLAMINE	SVOC	Cooling Pond	94575243SD	SD-C	0-6"	8270	12/08/1994	Sediment	24	U		24
N-NITROSODIMETHYLAMINE	SVOC	Cooling Pond	94575244SD	SD-D	0-6"	8270	12/08/1994	Sediment	2	U		2
N-NITROSODIMETHYLAMINE	SVOC	Cooling Pond	94575245SD	SD-E	0-6"	8270	12/08/1994	Sediment	2	U		2
N-NITROSODIMETHYLAMINE	SVOC	Cooling Pond	94575246SD	SD-F	0-6"	8270	12/08/1994	Sediment	2	U		2
N-NITROSODIMETHYLAMINE	SVOC	Cooling Pond	94575247SD	SD-G	0-6"	8270	12/08/1994	Sediment	4.5	U		4.5
N-NITROSODIMETHYLAMINE	SVOC	Cooling Pond	94575248SD	SD-H	0-6"	8270	12/08/1994	Sediment	2	U		2
N-NITROSODIMETHYLAMINE	SVOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8270	09/25/1996	Sediment	0.4	U	0.4	20
N-NITROSODIMETHYLAMINE	SVOC	119 ft from DP	96575205SD	96-SD5	----	8270	09/25/1996	Sediment	0.09	U	0.09	4.6
N-NITROSODIMETHYLAMINE	SVOC	147 ft from DP	96575206SD	96-SD6	----	8270	09/25/1996	Sediment	0.04	U	0.04	2
N-NITROSODIMETHYLAMINE	SVOC	165 ft from DP	96575208SD	96-SD8	----	8270	09/25/1996	Sediment	0.04	U	0.04	2
N-NITROSODIMETHYLAMINE	SVOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8270	09/25/1996	Sediment	0.04	U	0.04	2
N-NITROSODIMETHYLAMINE	SVOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8270	09/25/1996	Sediment	0.08	U	0.08	4.2
N-NITROSODIMETHYLAMINE	SVOC	40 ft from DP	96575202SD	96-SD2	----	8270	09/25/1996	Sediment	0.09	U	0.09	4.6
N-NITROSODIMETHYLAMINE	SVOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8270	09/25/1996	Sediment	0.09	U	0.09	4.6
N-NITROSODIMETHYLAMINE	SVOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8270	09/25/1996	Sediment	0.04	U	0.04	2
N-NITROSODIMETHYLAMINE	SVOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8270	09/26/1996	Sediment	0.2	U	0.2	8
N-NITROSODIMETHYLAMINE	SVOC	Drum Accumulation Area	94575210SL	SS 8	2'	8270	10/06/1994	Soil	2	U		2
N-NITROSODIMETHYLAMINE	SVOC	Drum Accumulation Area	94575211SL	SS 7	2'	8270	10/10/1994	Soil	2	U		2
N-NITROSODIMETHYLAMINE	SVOC	Drum Accumulation Area	94575212SL	SS 6	2'	8270	10/10/1994	Soil	2	U		2
N-NITROSODIMETHYLAMINE	SVOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8270	10/10/1994	Soil	3	U		3
N-NITROSODIMETHYLAMINE	SVOC	Drum Accumulation Area	94575215SL	SS 4	2'	8270	10/10/1994	Soil	2	U		2
N-NITROSODIMETHYLAMINE	SVOC	Drum Accumulation Area	94575216SL	SS 3	2'	8270	10/10/1994	Soil	2	U		2
N-NITROSODIMETHYLAMINE	SVOC	Drum Accumulation Area	94575217SL	SS 2	2'	8270	10/10/1994	Soil	2	U		2
N-NITROSODIMETHYLAMINE	SVOC	Drum Accumulation Area	94575218SL	SS 1	2'	8270	10/10/1994	Soil	2	U		2
N-NITROSODIMETHYLAMINE	SVOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8270	11/03/1994	Soil	2	U		2
N-NITROSODIMETHYLAMINE	SVOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8270	11/03/1994	Soil	2	U		2
N-NITROSODIMETHYLAMINE	SVOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8270	11/07/1994	Soil	2	U		2
N-NITROSODIMETHYLAMINE	SVOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8270	11/09/1994	Soil	2	U		2
N-NITROSODIMETHYLAMINE	SVOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8270	11/11/1994	Soil	2	U		2
N-NITROSODIMETHYLAMINE	SVOC	965752BH01	96575225SL	AP-3785	5	8270	10/02/1996	Soil	0.04	U	0.04	0.04
N-NITROSODIMETHYLAMINE	SVOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8270	10/03/1996	Soil	0.08	U	0.08	0.08
N-NITROSODIMETHYLAMINE	SVOC	965752BH03	96575233SL	AP-3787	5	8270	10/03/1996	Soil	0.04	U	0.04	0.04

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
N-NITROSODIMETHYLAMINE	SVOC	965752BH04	96575238SL	AP-3788	2.5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
N-NITROSODIMETHYLAMINE	SVOC	965752BH04	96575239SL-AVG	AP-3788	5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
N-NITROSODIMETHYLAMINE	SVOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8270	10/06/1994	Soil	2	U		2
N-NITROSODIMETHYLAMINE	SVOC	Drum Accumulation Area	94575203SL	SS 2	6"	8270	10/06/1994	Soil	2	U		2
N-NITROSODIMETHYLAMINE	SVOC	Drum Accumulation Area	94575204SL	SS 3	6"	8270	10/06/1994	Soil	2	U		2
N-NITROSODIMETHYLAMINE	SVOC	Drum Accumulation Area	94575205SL	SS 4	6"	8270	10/06/1994	Soil	2	U		2
N-NITROSODIMETHYLAMINE	SVOC	Drum Accumulation Area	94575206SL	SS 5	6"	8270	10/06/1994	Soil	2	U		2
N-NITROSODIMETHYLAMINE	SVOC	Drum Accumulation Area	94575207SL	SS 6	6"	8270	10/06/1994	Soil	2	U		2
N-NITROSODIMETHYLAMINE	SVOC	Drum Accumulation Area	94575208SL	SS 7	6"	8270	10/06/1994	Soil	2	U		2
N-NITROSODIMETHYLAMINE	SVOC	Drum Accumulation Area	94575209SL	SS 8	6"	8270	10/06/1994	Soil	2	U		2
N-NITROSODIMETHYLAMINE	SVOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8270	11/03/1994	Soil	4	U		4
N-NITROSODIMETHYLAMINE	SVOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8270	11/03/1994	Soil	4	U		4
N-NITROSODIMETHYLAMINE	SVOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8270	11/07/1994	Soil	2	U		2
N-NITROSODIMETHYLAMINE	SVOC	Cooling Pond	94575231SL	AP-3503	0-6'	8270	11/08/1994	Soil	2	U		2
N-NITROSODIMETHYLAMINE	SVOC	Cooling Pond	94575235SL	AP-3504	0-2'	8270	11/09/1994	Soil	2	U		2
N-NITROSODIMETHYLAMINE	SVOC	965752BH03	96575230SL	AP-3787	0	8270	10/03/1996	Soil	0.04	U	0.04	2
N-NITROSODIMETHYLAMINE	SVOC	965752BH04	96575236SL-AVG	AP-3788	0	8270	10/03/1996	Soil	0.04	U	0.04	2
N-NITROSODI-n-PROPYLAMINE	SVOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
N-NITROSODI-n-PROPYLAMINE	SVOC	Cooling Pond	94575242SD	SD-B	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
N-NITROSODI-n-PROPYLAMINE	SVOC	Cooling Pond	94575243SD	SD-C	0-6"	8270	12/08/1994	Sediment	4	U		4
N-NITROSODI-n-PROPYLAMINE	SVOC	Cooling Pond	94575244SD	SD-D	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
N-NITROSODI-n-PROPYLAMINE	SVOC	Cooling Pond	94575245SD	SD-E	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
N-NITROSODI-n-PROPYLAMINE	SVOC	Cooling Pond	94575246SD	SD-F	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
N-NITROSODI-n-PROPYLAMINE	SVOC	Cooling Pond	94575247SD	SD-G	0-6"	8270	12/08/1994	Sediment	0.8	U		0.8
N-NITROSODI-n-PROPYLAMINE	SVOC	Cooling Pond	94575248SD	SD-H	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
N-NITROSODI-n-PROPYLAMINE	SVOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8270	09/25/1996	Sediment	0.5	U	0.5	3
N-NITROSODI-n-PROPYLAMINE	SVOC	119 ft from DP	96575205SD	96-SD5	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7
N-NITROSODI-n-PROPYLAMINE	SVOC	147 ft from DP	96575206SD	96-SD6	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
N-NITROSODI-n-PROPYLAMINE	SVOC	165 ft from DP	96575208SD	96-SD8	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
N-NITROSODI-n-PROPYLAMINE	SVOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
N-NITROSODI-n-PROPYLAMINE	SVOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8270	09/25/1996	Sediment	0.1	U	0.1	0.7
N-NITROSODI-n-PROPYLAMINE	SVOC	40 ft from DP	96575202SD	96-SD2	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7
N-NITROSODI-n-PROPYLAMINE	SVOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7
N-NITROSODI-n-PROPYLAMINE	SVOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
N-NITROSODI-n-PROPYLAMINE	SVOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8270	09/26/1996	Sediment	0.2	U	0.2	1.2
N-NITROSODI-n-PROPYLAMINE	SVOC	Drum Accumulation Area	94575210SL	SS 8	2'	8270	10/06/1994	Soil	0.3	U		0.3
N-NITROSODI-n-PROPYLAMINE	SVOC	Drum Accumulation Area	94575211SL	SS 7	2'	8270	10/10/1994	Soil	0.3	U		0.3
N-NITROSODI-n-PROPYLAMINE	SVOC	Drum Accumulation Area	94575212SL	SS 6	2'	8270	10/10/1994	Soil	0.3	U		0.3
N-NITROSODI-n-PROPYLAMINE	SVOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8270	10/10/1994	Soil	0.5	U		0.5
N-NITROSODI-n-PROPYLAMINE	SVOC	Drum Accumulation Area	94575215SL	SS 4	2'	8270	10/10/1994	Soil	0.3	U		0.3
N-NITROSODI-n-PROPYLAMINE	SVOC	Drum Accumulation Area	94575216SL	SS 3	2'	8270	10/10/1994	Soil	0.3	U		0.3
N-NITROSODI-n-PROPYLAMINE	SVOC	Drum Accumulation Area	94575217SL	SS 2	2'	8270	10/10/1994	Soil	0.3	U		0.3
N-NITROSODI-n-PROPYLAMINE	SVOC	Drum Accumulation Area	94575218SL	SS 1	2'	8270	10/10/1994	Soil	0.3	U		0.3
N-NITROSODI-n-PROPYLAMINE	SVOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8270	11/03/1994	Soil	0.3	U		0.3
N-NITROSODI-n-PROPYLAMINE	SVOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8270	11/03/1994	Soil	0.3	U		0.3
N-NITROSODI-n-PROPYLAMINE	SVOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8270	11/07/1994	Soil	0.3	U		0.3
N-NITROSODI-n-PROPYLAMINE	SVOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8270	11/09/1994	Soil	0.3	U		0.3
N-NITROSODI-n-PROPYLAMINE	SVOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8270	11/11/1994	Soil	0.3	U		0.3
N-NITROSODI-n-PROPYLAMINE	SVOC	965752BH01	96575225SL	AP-3785	5	8270	10/02/1996	Soil	0.05	U	0.05	0.05
N-NITROSODI-n-PROPYLAMINE	SVOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8270	10/03/1996	Soil	0.1	U	0.1	0.1
N-NITROSODI-n-PROPYLAMINE	SVOC	965752BH03	96575233SL	AP-3787	5	8270	10/03/1996	Soil	0.05	U	0.05	0.05
N-NITROSODI-n-PROPYLAMINE	SVOC	965752BH04	96575238SL	AP-3788	2.5	8270	10/03/1996	Soil	0.05	U	0.05	0.05
N-NITROSODI-n-PROPYLAMINE	SVOC	965752BH04	96575239SL-AVG	AP-3788	5	8270	10/03/1996	Soil	0.05	U	0.05	0.05
N-NITROSODI-n-PROPYLAMINE	SVOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8270	10/06/1994	Soil	0.3	U		0.3
N-NITROSODI-n-PROPYLAMINE	SVOC	Drum Accumulation Area	94575203SL	SS 2	6"	8270	10/06/1994	Soil	0.3	U		0.3
N-NITROSODI-n-PROPYLAMINE	SVOC	Drum Accumulation Area	94575204SL	SS 3	6"	8270	10/06/1994	Soil	0.3	U		0.3
N-NITROSODI-n-PROPYLAMINE	SVOC	Drum Accumulation Area	94575205SL	SS 4	6"	8270	10/06/1994	Soil	0.3	U		0.3
N-NITROSODI-n-PROPYLAMINE	SVOC	Drum Accumulation Area	94575206SL	SS 5	6"	8270	10/06/1994	Soil	0.3	U		0.3
N-NITROSODI-n-PROPYLAMINE	SVOC	Drum Accumulation Area	94575207SL	SS 6	6"	8270	10/06/1994	Soil	0.3	U		0.3
N-NITROSODI-n-PROPYLAMINE	SVOC	Drum Accumulation Area	94575208SL	SS 7	6"	8270	10/06/1994	Soil	0.3	U		0.3
N-NITROSODI-n-PROPYLAMINE	SVOC	Drum Accumulation Area	94575209SL	SS 8	6"	8270	10/06/1994	Soil	0.3	U		0.3
N-NITROSODI-n-PROPYLAMINE	SVOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8270	11/03/1994	Soil	0.6	U		0.6

TABLE A-1
Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
N-NITROSODI-n-PROPYLAMINE	SVOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8270	11/03/1994	Soil	0.6	U		0.6
N-NITROSODI-n-PROPYLAMINE	SVOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8270	11/07/1994	Soil	0.3	U		0.3
N-NITROSODI-n-PROPYLAMINE	SVOC	Cooling Pond	94575231SL	AP-3503	0-6'	8270	11/08/1994	Soil	0.3	U		0.3
N-NITROSODI-n-PROPYLAMINE	SVOC	Cooling Pond	94575235SL	AP-3504	0-2'	8270	11/09/1994	Soil	0.3	U		0.3
N-NITROSODI-n-PROPYLAMINE	SVOC	965752BH03	96575230SL	AP-3787	0	8270	10/03/1996	Soil	0.05	U	0.05	0.3
N-NITROSODI-n-PROPYLAMINE	SVOC	965752BH04	96575236SL-AVG	AP-3788	0	8270	10/03/1996	Soil	0.05	U	0.05	0.3
N-NITROSODIPHENYLAMINE	SVOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
N-NITROSODIPHENYLAMINE	SVOC	Cooling Pond	94575242SD	SD-B	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
N-NITROSODIPHENYLAMINE	SVOC	Cooling Pond	94575243SD	SD-C	0-6"	8270	12/08/1994	Sediment	4	U		4
N-NITROSODIPHENYLAMINE	SVOC	Cooling Pond	94575244SD	SD-D	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
N-NITROSODIPHENYLAMINE	SVOC	Cooling Pond	94575245SD	SD-E	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
N-NITROSODIPHENYLAMINE	SVOC	Cooling Pond	94575246SD	SD-F	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
N-NITROSODIPHENYLAMINE	SVOC	Cooling Pond	94575247SD	SD-G	0-6"	8270	12/08/1994	Sediment	0.8	U		0.8
N-NITROSODIPHENYLAMINE	SVOC	Cooling Pond	94575248SD	SD-H	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
N-NITROSODIPHENYLAMINE	SVOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8270	09/25/1996	Sediment	0.4	U	0.4	3
N-NITROSODIPHENYLAMINE	SVOC	119 ft from DP	96575205SD	96-SD5	----	8270	09/25/1996	Sediment	0.09	U	0.09	0.7
N-NITROSODIPHENYLAMINE	SVOC	147 ft from DP	96575206SD	96-SD6	----	8270	09/25/1996	Sediment	0.04	U	0.04	0.3
N-NITROSODIPHENYLAMINE	SVOC	165 ft from DP	96575208SD	96-SD8	----	8270	09/25/1996	Sediment	0.04	U	0.04	0.3
N-NITROSODIPHENYLAMINE	SVOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8270	09/25/1996	Sediment	0.04	U	0.04	0.3
N-NITROSODIPHENYLAMINE	SVOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8270	09/25/1996	Sediment	0.08	U	0.08	0.7
N-NITROSODIPHENYLAMINE	SVOC	40 ft from DP	96575202SD	96-SD2	----	8270	09/25/1996	Sediment	0.09	U	0.09	0.7
N-NITROSODIPHENYLAMINE	SVOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8270	09/25/1996	Sediment	0.09	U	0.09	0.7
N-NITROSODIPHENYLAMINE	SVOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8270	09/25/1996	Sediment	0.04	U	0.04	0.3
N-NITROSODIPHENYLAMINE	SVOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8270	09/26/1996	Sediment	0.2	U	0.2	1.2
N-NITROSODIPHENYLAMINE	SVOC	Drum Accumulation Area	94575210SL	SS 8	2'	8270	10/06/1994	Soil	0.3	U		0.3
N-NITROSODIPHENYLAMINE	SVOC	Drum Accumulation Area	94575211SL	SS 7	2'	8270	10/10/1994	Soil	0.3	U		0.3
N-NITROSODIPHENYLAMINE	SVOC	Drum Accumulation Area	94575212SL	SS 6	2'	8270	10/10/1994	Soil	0.3	U		0.3
N-NITROSODIPHENYLAMINE	SVOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8270	10/10/1994	Soil	0.5	U		0.5
N-NITROSODIPHENYLAMINE	SVOC	Drum Accumulation Area	94575215SL	SS 4	2'	8270	10/10/1994	Soil	0.3	U		0.3
N-NITROSODIPHENYLAMINE	SVOC	Drum Accumulation Area	94575216SL	SS 3	2'	8270	10/10/1994	Soil	0.3	U		0.3
N-NITROSODIPHENYLAMINE	SVOC	Drum Accumulation Area	94575217SL	SS 2	2'	8270	10/10/1994	Soil	0.3	U		0.3
N-NITROSODIPHENYLAMINE	SVOC	Drum Accumulation Area	94575218SL	SS 1	2'	8270	10/10/1994	Soil	0.3	U		0.3
N-NITROSODIPHENYLAMINE	SVOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8270	11/03/1994	Soil	0.3	U		0.3
N-NITROSODIPHENYLAMINE	SVOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8270	11/03/1994	Soil	0.3	U		0.3
N-NITROSODIPHENYLAMINE	SVOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8270	11/07/1994	Soil	0.3	U		0.3
N-NITROSODIPHENYLAMINE	SVOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8270	11/09/1994	Soil	0.3	U		0.3
N-NITROSODIPHENYLAMINE	SVOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8270	11/11/1994	Soil	0.3	U		0.3
N-NITROSODIPHENYLAMINE	SVOC	965752BH01	96575225SL	AP-3785	5	8270	10/02/1996	Soil	0.04	U	0.04	0.04
N-NITROSODIPHENYLAMINE	SVOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8270	10/03/1996	Soil	0.08	U	0.08	0.08
N-NITROSODIPHENYLAMINE	SVOC	965752BH03	96575233SL	AP-3787	5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
N-NITROSODIPHENYLAMINE	SVOC	965752BH04	96575238SL	AP-3788	2.5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
N-NITROSODIPHENYLAMINE	SVOC	965752BH04	96575239SL-AVG	AP-3788	5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
N-NITROSODIPHENYLAMINE	SVOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8270	10/06/1994	Soil	0.3	U		0.3
N-NITROSODIPHENYLAMINE	SVOC	Drum Accumulation Area	94575203SL	SS 2	6"	8270	10/06/1994	Soil	0.3	U		0.3
N-NITROSODIPHENYLAMINE	SVOC	Drum Accumulation Area	94575204SL	SS 3	6"	8270	10/06/1994	Soil	0.3	U		0.3
N-NITROSODIPHENYLAMINE	SVOC	Drum Accumulation Area	94575205SL	SS 4	6"	8270	10/06/1994	Soil	0.3	U		0.3
N-NITROSODIPHENYLAMINE	SVOC	Drum Accumulation Area	94575206SL	SS 5	6"	8270	10/06/1994	Soil	0.3	U		0.3
N-NITROSODIPHENYLAMINE	SVOC	Drum Accumulation Area	94575207SL	SS 6	6"	8270	10/06/1994	Soil	0.3	U		0.3
N-NITROSODIPHENYLAMINE	SVOC	Drum Accumulation Area	94575208SL	SS 7	6"	8270	10/06/1994	Soil	0.3	U		0.3
N-NITROSODIPHENYLAMINE	SVOC	Drum Accumulation Area	94575209SL	SS 8	6"	8270	10/06/1994	Soil	0.3	U		0.3
N-NITROSODIPHENYLAMINE	SVOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8270	11/03/1994	Soil	0.6	U		0.6
N-NITROSODIPHENYLAMINE	SVOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8270	11/03/1994	Soil	0.6	U		0.6
N-NITROSODIPHENYLAMINE	SVOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8270	11/07/1994	Soil	0.3	U		0.3
N-NITROSODIPHENYLAMINE	SVOC	Cooling Pond	94575231SL	AP-3503	0-6'	8270	11/08/1994	Soil	0.3	U		0.3
N-NITROSODIPHENYLAMINE	SVOC	Cooling Pond	94575235SL	AP-3504	0-2'	8270	11/09/1994	Soil	0.3	U		0.3
N-NITROSODIPHENYLAMINE	SVOC	965752BH03	96575230SL	AP-3787	0	8270	10/03/1996	Soil	0.04	U	0.04	0.3
N-NITROSODIPHENYLAMINE	SVOC	965752BH04	96575236SL-AVG	AP-3788	0	8270	10/03/1996	Soil	0.04	U	0.04	0.3
n-PROPYLBENZENE	VOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
n-PROPYLBENZENE	VOC	Cooling Pond	94575242SD	SD-B	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
n-PROPYLBENZENE	VOC	Cooling Pond	94575243SD	SD-C	0-6"	8260	12/08/1994	Sediment	0.04	U		0.04
n-PROPYLBENZENE	VOC	Cooling Pond	94575244SD	SD-D	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
n-PROPYLBENZENE	VOC	Cooling Pond	94575245SD	SD-E	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
n-PROPYLBENZENE	VOC	Cooling Pond	94575246SD	SD-F	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
n-PROPYLBENZENE	VOC	Cooling Pond	94575247SD	SD-G	0-6"	8260	12/08/1994	Sediment	0.04	U		0.04
n-PROPYLBENZENE	VOC	Cooling Pond	94575248SD	SD-H	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
n-PROPYLBENZENE	VOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8260	09/25/1996	Sediment	0.03	J	0.002	0.04
n-PROPYLBENZENE	VOC	119 ft from DP	96575205SD	96-SD5	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.04
n-PROPYLBENZENE	VOC	147 ft from DP	96575206SD	96-SD6	----	8260	09/25/1996	Sediment	0.0007	U	0.0007	0.02
n-PROPYLBENZENE	VOC	165 ft from DP	96575208SD	96-SD8	----	8260	09/25/1996	Sediment	0.0007	U	0.0007	0.02
n-PROPYLBENZENE	VOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8260	09/25/1996	Sediment	0.0007	U	0.0007	0.02
n-PROPYLBENZENE	VOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8260	09/25/1996	Sediment	0.003	U	0.003	0.06
n-PROPYLBENZENE	VOC	40 ft from DP	96575202SD	96-SD2	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.04
n-PROPYLBENZENE	VOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.04
n-PROPYLBENZENE	VOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8260	09/25/1996	Sediment	0.0007	U	0.0007	0.02
n-PROPYLBENZENE	VOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8260	09/26/1996	Sediment	0.18	J	0.002	0.04
n-PROPYLBENZENE	VOC	Drum Accumulation Area	94575210SL	SS 8	2'	8260	10/06/1994	Soil	0.02	U		0.02
n-PROPYLBENZENE	VOC	Drum Accumulation Area	94575211SL	SS 7	2'	8260	10/10/1994	Soil	0.02	U		0.02
n-PROPYLBENZENE	VOC	Drum Accumulation Area	94575212SL	SS 6	2'	8260	10/10/1994	Soil	0.02	U		0.02
n-PROPYLBENZENE	VOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8260	10/10/1994	Soil	0.02	U		0.02
n-PROPYLBENZENE	VOC	Drum Accumulation Area	94575215SL	SS 4	2'	8260	10/10/1994	Soil	0.02	U		0.02
n-PROPYLBENZENE	VOC	Drum Accumulation Area	94575216SL	SS 3	2'	8260	10/10/1994	Soil	0.02	U		0.02
n-PROPYLBENZENE	VOC	Drum Accumulation Area	94575217SL	SS 2	2'	8260	10/10/1994	Soil	0.02	U		0.02
n-PROPYLBENZENE	VOC	Drum Accumulation Area	94575218SL	SS 1	2'	8260	10/10/1994	Soil	0.02	U		0.02
n-PROPYLBENZENE	VOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8260	11/03/1994	Soil	0.02	U		0.02
n-PROPYLBENZENE	VOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8260	11/03/1994	Soil	0.02	U		0.02
n-PROPYLBENZENE	VOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8260	11/07/1994	Soil	0.02	U		0.02
n-PROPYLBENZENE	VOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8260	11/09/1994	Soil	0.02	U		0.02
n-PROPYLBENZENE	VOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8260	11/11/1994	Soil	0.02	U		0.02
n-PROPYLBENZENE	VOC	965752BH01	96575225SL	AP-3785	5	8260	10/02/1996	Soil	0.0007	U	0.0007	0.0007
n-PROPYLBENZENE	VOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8260	10/03/1996	Soil	0.0007	U	0.0007	0.0007
n-PROPYLBENZENE	VOC	965752BH04	96575238SL	AP-3788	2.5	8260	10/03/1996	Soil	0.0007	U	0.0007	0.0007
n-PROPYLBENZENE	VOC	965752BH04	96575239SL-AVG	AP-3788	5	8260	10/03/1996	Soil	0.0007	U	0.0007	0.0007
n-PROPYLBENZENE	VOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8260	10/06/1994	Soil	0.02	U		0.02
n-PROPYLBENZENE	VOC	Drum Accumulation Area	94575203SL	SS 2	6"	8260	10/06/1994	Soil	0.02	U		0.02
n-PROPYLBENZENE	VOC	Drum Accumulation Area	94575204SL	SS 3	6"	8260	10/06/1994	Soil	0.02	U		0.02
n-PROPYLBENZENE	VOC	Drum Accumulation Area	94575205SL	SS 4	6"	8260	10/06/1994	Soil	0.02	U		0.02
n-PROPYLBENZENE	VOC	Drum Accumulation Area	94575206SL	SS 5	6"	8260	10/06/1994	Soil	0.02	U		0.02
n-PROPYLBENZENE	VOC	Drum Accumulation Area	94575207SL	SS 6	6"	8260	10/06/1994	Soil	0.02	U		0.02
n-PROPYLBENZENE	VOC	Drum Accumulation Area	94575208SL	SS 7	6"	8260	10/06/1994	Soil	0.02	U		0.02
n-PROPYLBENZENE	VOC	Drum Accumulation Area	94575209SL	SS 8	6"	8260	10/06/1994	Soil	0.02	U		0.02
n-PROPYLBENZENE	VOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8260	11/03/1994	Soil	0.02	U		0.02
n-PROPYLBENZENE	VOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8260	11/03/1994	Soil	0.02	U		0.02
n-PROPYLBENZENE	VOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8260	11/07/1994	Soil	0.02	U		0.02
n-PROPYLBENZENE	VOC	Cooling Pond	94575231SL	AP-3503	0-6'	8260	11/08/1994	Soil	0.02	U		0.02
n-PROPYLBENZENE	VOC	Cooling Pond	94575235SL	AP-3504	0-2'	8260	11/09/1994	Soil	0.02	U		0.02
n-PROPYLBENZENE	VOC	965752BH03	96575230SL	AP-3787	0	8260	10/03/1996	Soil	0.0007	U	0.0007	0.02
n-PROPYLBENZENE	VOC	965752BH04	96575236SL-AVG	AP-3788	0	8260	10/03/1996	Soil	0.0007	U	0.0007	0.02
OCTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752132SL	P1	1.5 - 2	SW8290D	07/30/2002	Soil	0.00000089	=	0.00000428	0.00001
OCTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752202SL	P24	1 - 1.5	SW8290D	07/30/2002	Soil	0.000044	=	0.00000427	0.0000099
OCTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752215SL	P28	1.5 - 2	SW8290D	07/30/2002	Soil	0.0000043	U	0.0000043	0.00001
OCTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752220SL	P30	1 - 1.5	SW8290D	07/30/2002	Soil	0.0000008	=	0.00000429	0.00001
OCTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752157SL-AVG	P10	0 - 0.5	SW8290D	07/30/2002	Soil	0.0000131	=		
OCTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752208SL	P26	0 - 0.5	SW8290D	07/30/2002	Soil	0.000204	=		
OCTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752217SL	P29	0 - 0.5	SW8290D	07/30/2002	Soil	0.000165	=		
OCTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75264SL	S31	1 - 1.5	SW8290D	07/26/2002	Soil	0.0000012	=	0.00000419	0.0000097
OCTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75270SL	S34	1 - 1.5	SW8290D	07/26/2002	Soil	0.0000099	=	0.00000424	0.0000099
OCTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75277SL	S38	0 - 0.5	SW8290D	07/26/2002	Soil	0.0000361	=	0.00000427	0.0000099
OCTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75283SL-AVG	S41	0 - 0.5	SW8290D	07/26/2002	Soil	0.00001615	=		
OCTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Transformer Mounting Area	02B75238SL	T13	0 - 0.5	SW8290D	08/01/2002	Soil	0.000787	=	0.00000428	0.00001
OCTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Transformer Mounting Area	02B75244SL	T15	0 - 0.5	SW8290D	08/01/2002	Soil	0.000465	=	0.00000427	0.0000099
OCTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B75216SL	T6	0 - 0.5	SW8290D	08/01/2002	Soil	0.0000703	=	0.00000423	0.0000098
OCTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B75229SL	T10	0 - 0.5	SW8290D	08/01/2002	Soil	0.0000645	=		
OCTACHLORODIBENZOFURAN	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B752233	T11	0.5 - 1	SW8290D	10/15/2002	Soil	0.0000085	=	0.0000043	0.00001
OCTACHLORODIBENZOFURAN	DIOXIN/FURANS	fiber cable route	LCI 1-1	LCI1	1-2'	8280A	05/10/2001	Soil	0.00003	U		0.00003

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
OCTACHLORODIBENZOFURAN	DIOXIN/FURANS	fiber cable route	LCI 5-0	LCI5	0-1'	8280A	05/10/2001	Soil	0.00003	U		0.00003
OCTACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752132SL	P1	1.5 - 2	SW8290D	07/30/2002	Soil	0.0000058	=	0.00000259	0.00001
OCTACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752202SL	P24	1 - 1.5	SW8290D	07/30/2002	Soil	0.000154	=	0.00000258	0.0000099
OCTACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752215SL	P28	1.5 - 2	SW8290D	07/30/2002	Soil	0.000001	=	0.0000026	0.00001
OCTACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752220SL	P30	1 - 1.5	SW8290D	07/30/2002	Soil	0.0000028	=	0.00000259	0.00001
OCTACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752157SL-AVG	P10	0 - 0.5	SW8290D	07/30/2002	Soil	0.00005165	=		
OCTACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752208SL	P26	0 - 0.5	SW8290D	07/30/2002	Soil	0.000961	=		
OCTACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752217SL	P29	0 - 0.5	SW8290D	07/30/2002	Soil	0.000282	=		
OCTACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75264SL	S31	1 - 1.5	SW8290D	07/26/2002	Soil	0.0000525	=	0.00000253	0.0000097
OCTACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75270SL	S34	1 - 1.5	SW8290D	07/26/2002	Soil	0.0000421	=	0.00000256	0.0000099
OCTACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75277SL	S38	0 - 0.5	SW8290D	07/26/2002	Soil	0.0000703	=	0.00000258	0.0000099
OCTACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75283SL-AVG	S41	0 - 0.5	SW8290D	07/26/2002	Soil	0.0000858	=		
OCTACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Transformer Mounting Area	02B75238SL	T13	0 - 0.5	SW8290D	08/01/2002	Soil	0.00449	=	0.00000259	0.00001
OCTACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Transformer Mounting Area	02B75244SL	T15	0 - 0.5	SW8290D	08/01/2002	Soil	0.00273	=	0.00000258	0.0000099
OCTACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B75216SL	T6	0 - 0.5	SW8290D	08/01/2002	Soil	0.000467	=	0.00000256	0.0000098
OCTACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B75229SL	T10	0 - 0.5	SW8290D	08/01/2002	Soil	0.000423	=		
OCTACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B752233	T11	0.5 - 1	SW8290D	10/15/2002	Soil	0.0000171	=	0.0000026	0.00001
OCTACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	fiber cable route	LCI 1-1	LCI1	1-2'	8280A	05/10/2001	Soil	0.00065	=		0.00003
OCTACHLORODIBENZO-p-DIOXIN	DIOXIN/FURANS	fiber cable route	LCI 5-0	LCI5	0-1'	8280A	05/10/2001	Soil	0.00035	=		0.00003
p,p'-DDD	PEST/PCB	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8080	12/08/1994	Sediment	0.065	=		0.01
p,p'-DDD	PEST/PCB	Cooling Pond	94575242SD	SD-B	0-6"	8080	12/08/1994	Sediment	0.03	=		0.01
p,p'-DDD	PEST/PCB	Cooling Pond	94575243SD	SD-C	0-6"	8080	12/08/1994	Sediment	0.02	=		0.01
p,p'-DDD	PEST/PCB	Cooling Pond	94575244SD	SD-D	0-6"	8080	12/08/1994	Sediment	0.07	=		0.01
p,p'-DDD	PEST/PCB	Cooling Pond	94575245SD	SD-E	0-6"	8080	12/08/1994	Sediment	0.04	U		0.04
p,p'-DDD	PEST/PCB	Cooling Pond	94575246SD	SD-F	0-6"	8080	12/08/1994	Sediment	0.1	U		0.1
p,p'-DDD	PEST/PCB	Cooling Pond	94575247SD	SD-G	0-6"	8080	12/08/1994	Sediment	0.08	U		0.08
p,p'-DDD	PEST/PCB	Cooling Pond	94575248SD	SD-H	0-6"	8080	12/08/1994	Sediment	0.05	U		0.05
p,p'-DDD	PEST/PCB	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8080	09/25/1996	Sediment	0.74	=	0.0008	0.02
p,p'-DDD	PEST/PCB	119 ft from DP	96575205SD	96-SD5	----	8080	09/25/1996	Sediment	0.088	=	0.0008	0.02
p,p'-DDD	PEST/PCB	147 ft from DP	96575206SD	96-SD6	----	8080	09/25/1996	Sediment	0.02	=	0.0004	0.01
p,p'-DDD	PEST/PCB	165 ft from DP	96575208SD	96-SD8	----	8080	09/25/1996	Sediment	0.458	=	0.0004	0.01
p,p'-DDD	PEST/PCB	171 ft from DP (east side)	96575209SD	96-SD9	----	8080	09/25/1996	Sediment	0.131	=	0.0004	0.01
p,p'-DDD	PEST/PCB	171 ft from DP (west side)	96575207SD	96-SD7	----	8080	09/25/1996	Sediment	0.345	=	0.0008	0.02
p,p'-DDD	PEST/PCB	40 ft from DP	96575202SD	96-SD2	----	8080	09/25/1996	Sediment	0.049	=	0.0008	0.02
p,p'-DDD	PEST/PCB	79 ft from DP	96575203SD-AVG	96-SD3	----	8080	09/25/1996	Sediment	0.058	=	0.0008	0.02
p,p'-DDD	PEST/PCB	Discharge pipe (DP)	96575201SD	96-SD1	----	8080	09/25/1996	Sediment	0.001	J	0.0004	0.01
p,p'-DDD	PEST/PCB	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8080	09/26/1996	Sediment	0.268	=	0.0008	0.02
p,p'-DDD	PEST/PCB	Downstream end of 35-752 pond	975752007SD-AVG	96-SD007	0	SW8081	10/21/1997	Sediment	0.13	=	0.0004	0.02
p,p'-DDD	PEST/PCB	Drum Accumulation Area	94575210SL	SS 8	2'	8080	10/06/1994	Soil	0.01	=		0.01
p,p'-DDD	PEST/PCB	Drum Accumulation Area	94575211SL	SS 7	2'	8080	10/10/1994	Soil	0.01	U		0.01
p,p'-DDD	PEST/PCB	Drum Accumulation Area	94575212SL	SS 6	2'	8080	10/10/1994	Soil	0.01	U		0.01
p,p'-DDD	PEST/PCB	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8080	10/10/1994	Soil	0.01	U		0.01
p,p'-DDD	PEST/PCB	Drum Accumulation Area	94575215SL	SS 4	2'	8080	10/10/1994	Soil	0.01	U		0.01
p,p'-DDD	PEST/PCB	Drum Accumulation Area	94575216SL	SS 3	2'	8080	10/10/1994	Soil	0.01	U		0.01
p,p'-DDD	PEST/PCB	Drum Accumulation Area	94575217SL	SS 2	2'	8080	10/10/1994	Soil	0.01	U		0.01
p,p'-DDD	PEST/PCB	Drum Accumulation Area	94575218SL	SS 1	2'	8080	10/10/1994	Soil	0.01	U		0.01
p,p'-DDD	PEST/PCB	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8080	11/03/1994	Soil	0.06	U		0.06
p,p'-DDD	PEST/PCB	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8080	11/03/1994	Soil	0.01	U		0.01
p,p'-DDD	PEST/PCB	Cooling Pond	94575229SL	AP-3502	4'-6'	8080	11/07/1994	Soil	0.01	U		0.01
p,p'-DDD	PEST/PCB	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8080	11/09/1994	Soil	0.03	UD		0.01
p,p'-DDD	PEST/PCB	Cooling Pond	94575240SL	AP-3501	5'-7'	8080	11/11/1994	Soil	0.15	U		0.15
p,p'-DDD	PEST/PCB	965752BH01	96575225SL	AP-3785	5	8080	10/02/1996	Soil	0.0004	U	0.0004	0.0004
p,p'-DDD	PEST/PCB	965752BH03	96575231SL-AVG	AP-3787	2.5	8080	10/03/1996	Soil	0.21	=	0.0004	0.0004
p,p'-DDD	PEST/PCB	965752BH03	96575233SL	AP-3787	5	8080	10/03/1996	Soil	0.023	=	0.0004	0.0004
p,p'-DDD	PEST/PCB	965752BH04	96575238SL	AP-3788	2.5	8080	10/03/1996	Soil	0.0006	J	0.0004	0.0004
p,p'-DDD	PEST/PCB	965752BH04	96575239SL-AVG	AP-3788	5	8080	10/03/1996	Soil	0.00075	J	0.0004	0.0004
p,p'-DDD	PEST/PCB	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8080	10/06/1994	Soil	0.01	U		0.01
p,p'-DDD	PEST/PCB	Drum Accumulation Area	94575203SL	SS 2	6"	8080	10/06/1994	Soil	0.01	U		0.01
p,p'-DDD	PEST/PCB	Drum Accumulation Area	94575204SL	SS 3	6"	8080	10/06/1994	Soil	0.01	U		0.01
p,p'-DDD	PEST/PCB	Drum Accumulation Area	94575205SL	SS 4	6"	8080	10/06/1994	Soil	0.01	U		0.01
p,p'-DDD	PEST/PCB	Drum Accumulation Area	94575206SL	SS 5	6"	8080	10/06/1994	Soil	0.01	U		0.01
p,p'-DDD	PEST/PCB	Drum Accumulation Area	94575207SL	SS 6	6"	8080	10/06/1994	Soil	0.01	U		0.01

TABLE A-1
Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
p,p'-DDD	PEST/PCB	Drum Accumulation Area	94575208SL	SS 7	6"	8080	10/06/1994	Soil	0.01	U		0.01
p,p'-DDD	PEST/PCB	Drum Accumulation Area	94575209SL	SS 8	6"	8080	10/06/1994	Soil	0.06	U		0.06
p,p'-DDD	PEST/PCB	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8080	11/03/1994	Soil	0.1	U		0.1
p,p'-DDD	PEST/PCB	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8080	11/03/1994	Soil	0.01	U		0.01
p,p'-DDD	PEST/PCB	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8080	11/07/1994	Soil	0.1	U		0.1
p,p'-DDD	PEST/PCB	Cooling Pond	94575231SL	AP-3503	0-6'	8080	11/08/1994	Soil	0.01	U		0.01
p,p'-DDD	PEST/PCB	Cooling Pond	94575235SL	AP-3504	0-2'	8080	11/09/1994	Soil	0.08	U		0.08
p,p'-DDD	PEST/PCB	965752BH03	96575230SL	AP-3787	0	8080	10/03/1996	Soil	0.007	J	0.0004	0.01
p,p'-DDD	PEST/PCB	965752BH04	96575236SL-AVG	AP-3788	0	8080	10/03/1996	Soil	0.33	=	0.0004	0.01
p,p'-DDE	PEST/PCB	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
p,p'-DDE	PEST/PCB	Cooling Pond	94575242SD	SD-B	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
p,p'-DDE	PEST/PCB	Cooling Pond	94575243SD	SD-C	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
p,p'-DDE	PEST/PCB	Cooling Pond	94575244SD	SD-D	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
p,p'-DDE	PEST/PCB	Cooling Pond	94575245SD	SD-E	0-6"	8080	12/08/1994	Sediment	0.01	U		0.01
p,p'-DDE	PEST/PCB	Cooling Pond	94575246SD	SD-F	0-6"	8080	12/08/1994	Sediment	0.1	U		0.1
p,p'-DDE	PEST/PCB	Cooling Pond	94575247SD	SD-G	0-6"	8080	12/08/1994	Sediment	0.08	U		0.08
p,p'-DDE	PEST/PCB	Cooling Pond	94575248SD	SD-H	0-6"	8080	12/08/1994	Sediment	0.05	U		0.05
p,p'-DDE	PEST/PCB	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8080	09/25/1996	Sediment	0.03	=	0.0006	0.02
p,p'-DDE	PEST/PCB	119 ft from DP	96575205SD	96-SD5	----	8080	09/25/1996	Sediment	0.006	J	0.0006	0.02
p,p'-DDE	PEST/PCB	147 ft from DP	96575206SD	96-SD6	----	8080	09/25/1996	Sediment	0.003	J	0.0003	0.01
p,p'-DDE	PEST/PCB	165 ft from DP	96575208SD	96-SD8	----	8080	09/25/1996	Sediment	0.016	=	0.0003	0.01
p,p'-DDE	PEST/PCB	171 ft from DP (east side)	96575209SD	96-SD9	----	8080	09/25/1996	Sediment	0.003	J	0.0003	0.01
p,p'-DDE	PEST/PCB	171 ft from DP (west side)	96575207SD	96-SD7	----	8080	09/25/1996	Sediment	0.014	J	0.0006	0.02
p,p'-DDE	PEST/PCB	40 ft from DP	96575202SD	96-SD2	----	8080	09/25/1996	Sediment	0.006	J	0.0006	0.02
p,p'-DDE	PEST/PCB	79 ft from DP	96575203SD-AVG	96-SD3	----	8080	09/25/1996	Sediment	0.005	J	0.0006	0.02
p,p'-DDE	PEST/PCB	Discharge pipe (DP)	96575201SD	96-SD1	----	8080	09/25/1996	Sediment	0.0005	J	0.0003	0.01
p,p'-DDE	PEST/PCB	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8080	09/26/1996	Sediment	0.028	=	0.0006	0.02
p,p'-DDE	PEST/PCB	Downstream end of 35-752 pond	975752007SD-AVG	96-SD007	0	SW8081	10/21/1997	Sediment	0.0185	J	0.0003	0.02
p,p'-DDE	PEST/PCB	Drum Accumulation Area	94575210SL	SS 8	2'	8080	10/06/1994	Soil	0.01	U		0.01
p,p'-DDE	PEST/PCB	Drum Accumulation Area	94575211SL	SS 7	2'	8080	10/10/1994	Soil	0.01	U		0.01
p,p'-DDE	PEST/PCB	Drum Accumulation Area	94575212SL	SS 6	2'	8080	10/10/1994	Soil	0.01	U		0.01
p,p'-DDE	PEST/PCB	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8080	10/10/1994	Soil	0.01	U		0.01
p,p'-DDE	PEST/PCB	Drum Accumulation Area	94575215SL	SS 4	2'	8080	10/10/1994	Soil	0.01	U		0.01
p,p'-DDE	PEST/PCB	Drum Accumulation Area	94575216SL	SS 3	2'	8080	10/10/1994	Soil	0.01	U		0.01
p,p'-DDE	PEST/PCB	Drum Accumulation Area	94575217SL	SS 2	2'	8080	10/10/1994	Soil	0.01	U		0.01
p,p'-DDE	PEST/PCB	Drum Accumulation Area	94575218SL	SS 1	2'	8080	10/10/1994	Soil	0.01	U		0.01
p,p'-DDE	PEST/PCB	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8080	11/03/1994	Soil	0.06	U		0.06
p,p'-DDE	PEST/PCB	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8080	11/03/1994	Soil	0.01	U		0.01
p,p'-DDE	PEST/PCB	Cooling Pond	94575229SL	AP-3502	4'-6'	8080	11/07/1994	Soil	0.01	U		0.01
p,p'-DDE	PEST/PCB	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8080	11/09/1994	Soil	0.01	U		0.01
p,p'-DDE	PEST/PCB	Cooling Pond	94575240SL	AP-3501	5'-7'	8080	11/11/1994	Soil	0.1	U		0.1
p,p'-DDE	PEST/PCB	965752BH01	96575225SL	AP-3785	5	8080	10/02/1996	Soil	0.003	J	0.0003	0.0003
p,p'-DDE	PEST/PCB	965752BH03	96575231SL-AVG	AP-3787	2.5	8080	10/03/1996	Soil	0.007	J	0.0003	0.0003
p,p'-DDE	PEST/PCB	965752BH03	96575233SL	AP-3787	5	8080	10/03/1996	Soil	0.0009	J	0.0003	0.0003
p,p'-DDE	PEST/PCB	965752BH04	96575238SL	AP-3788	2.5	8080	10/03/1996	Soil	0.0003	U	0.0003	0.0003
p,p'-DDE	PEST/PCB	965752BH04	96575239SL-AVG	AP-3788	5	8080	10/03/1996	Soil	0.0003	U	0.0003	0.0003
p,p'-DDE	PEST/PCB	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8080	10/06/1994	Soil	0.01	U		0.01
p,p'-DDE	PEST/PCB	Drum Accumulation Area	94575203SL	SS 2	6"	8080	10/06/1994	Soil	0.01	U		0.01
p,p'-DDE	PEST/PCB	Drum Accumulation Area	94575204SL	SS 3	6"	8080	10/06/1994	Soil	0.01	U		0.01
p,p'-DDE	PEST/PCB	Drum Accumulation Area	94575205SL	SS 4	6"	8080	10/06/1994	Soil	0.01	U		0.01
p,p'-DDE	PEST/PCB	Drum Accumulation Area	94575206SL	SS 5	6"	8080	10/06/1994	Soil	0.01	U		0.01
p,p'-DDE	PEST/PCB	Drum Accumulation Area	94575207SL	SS 6	6"	8080	10/06/1994	Soil	0.01	U		0.01
p,p'-DDE	PEST/PCB	Drum Accumulation Area	94575208SL	SS 7	6"	8080	10/06/1994	Soil	0.01	U		0.01
p,p'-DDE	PEST/PCB	Drum Accumulation Area	94575209SL	SS 8	6"	8080	10/06/1994	Soil	0.07	U		0.07
p,p'-DDE	PEST/PCB	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8080	11/03/1994	Soil	0.1	U		0.1
p,p'-DDE	PEST/PCB	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8080	11/03/1994	Soil	0.01	U		0.01
p,p'-DDE	PEST/PCB	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8080	11/07/1994	Soil	0.1	U		0.1
p,p'-DDE	PEST/PCB	Cooling Pond	94575231SL	AP-3503	0-6'	8080	11/08/1994	Soil	0.01	U		0.01
p,p'-DDE	PEST/PCB	Cooling Pond	94575235SL	AP-3504	0-2'	8080	11/09/1994	Soil	0.01	U		0.01
p,p'-DDE	PEST/PCB	965752BH03	96575230SL	AP-3787	0	8080	10/03/1996	Soil	0.002	J	0.0003	0.01
p,p'-DDE	PEST/PCB	965752BH04	96575236SL-AVG	AP-3788	0	8080	10/03/1996	Soil	0.008	J	0.0003	0.01
p,p'-DDT (1,1-bis(CHLOROPHENYL)-2,2,2-TRICHLOROETHANE)	PEST/PCB	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8080	12/08/1994	Sediment	0.25	U		0.25

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
p,p'-DDT (1,1-bis(CHLOROPHENYL)-2,2,2-TRICHLOROETHANE)	PEST/PCB	Cooling Pond	94575242SD	SD-B	0-6"	8080	12/08/1994	Sediment	0.02	U		0.02
p,p'-DDT (1,1-bis(CHLOROPHENYL)-2,2,2-TRICHLOROETHANE)	PEST/PCB	Cooling Pond	94575243SD	SD-C	0-6"	8080	12/08/1994	Sediment	0.04	U		0.04
p,p'-DDT (1,1-bis(CHLOROPHENYL)-2,2,2-TRICHLOROETHANE)	PEST/PCB	Cooling Pond	94575244SD	SD-D	0-6"	8080	12/08/1994	Sediment	0.04	=		0.01
p,p'-DDT (1,1-bis(CHLOROPHENYL)-2,2,2-TRICHLOROETHANE)	PEST/PCB	Cooling Pond	94575245SD	SD-E	0-6"	8080	12/08/1994	Sediment	0.04	U		0.04
p,p'-DDT (1,1-bis(CHLOROPHENYL)-2,2,2-TRICHLOROETHANE)	PEST/PCB	Cooling Pond	94575246SD	SD-F	0-6"	8080	12/08/1994	Sediment	0.1	U		0.1
p,p'-DDT (1,1-bis(CHLOROPHENYL)-2,2,2-TRICHLOROETHANE)	PEST/PCB	Cooling Pond	94575247SD	SD-G	0-6"	8080	12/08/1994	Sediment	0.08	U		0.08
p,p'-DDT (1,1-bis(CHLOROPHENYL)-2,2,2-TRICHLOROETHANE)	PEST/PCB	Cooling Pond	94575248SD	SD-H	0-6"	8080	12/08/1994	Sediment	0.07	U		0.07
p,p'-DDT (1,1-bis(CHLOROPHENYL)-2,2,2-TRICHLOROETHANE)	PEST/PCB	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8080	09/25/1996	Sediment	0.117	=	0.0008	0.02
p,p'-DDT (1,1-bis(CHLOROPHENYL)-2,2,2-TRICHLOROETHANE)	PEST/PCB	119 ft from DP	96575205SD	96-SD5	----	8080	09/25/1996	Sediment	0.27	=	0.0008	0.02
p,p'-DDT (1,1-bis(CHLOROPHENYL)-2,2,2-TRICHLOROETHANE)	PEST/PCB	147 ft from DP	96575206SD	96-SD6	----	8080	09/25/1996	Sediment	0.0004	U	0.0004	0.02
p,p'-DDT (1,1-bis(CHLOROPHENYL)-2,2,2-TRICHLOROETHANE)	PEST/PCB	165 ft from DP	96575208SD	96-SD8	----	8080	09/25/1996	Sediment	0.309	=	0.0004	0.01
p,p'-DDT (1,1-bis(CHLOROPHENYL)-2,2,2-TRICHLOROETHANE)	PEST/PCB	171 ft from DP (east side)	96575209SD	96-SD9	----	8080	09/25/1996	Sediment	0.037	=	0.0004	0.01
p,p'-DDT (1,1-bis(CHLOROPHENYL)-2,2,2-TRICHLOROETHANE)	PEST/PCB	171 ft from DP (west side)	96575207SD	96-SD7	----	8080	09/25/1996	Sediment	0.122	=	0.0008	0.02
p,p'-DDT (1,1-bis(CHLOROPHENYL)-2,2,2-TRICHLOROETHANE)	PEST/PCB	40 ft from DP	96575202SD	96-SD2	----	8080	09/25/1996	Sediment	0.0008	U	0.0008	0.04
p,p'-DDT (1,1-bis(CHLOROPHENYL)-2,2,2-TRICHLOROETHANE)	PEST/PCB	79 ft from DP	96575203SD-AVG	96-SD3	----	8080	09/25/1996	Sediment	0.085	=	0.0008	0.02
p,p'-DDT (1,1-bis(CHLOROPHENYL)-2,2,2-TRICHLOROETHANE)	PEST/PCB	Discharge pipe (DP)	96575201SD	96-SD1	----	8080	09/25/1996	Sediment	0.009	J	0.0004	0.01
p,p'-DDT (1,1-bis(CHLOROPHENYL)-2,2,2-TRICHLOROETHANE)	PEST/PCB	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8080	09/26/1996	Sediment	0.031	=	0.0008	0.02
p,p'-DDT (1,1-bis(CHLOROPHENYL)-2,2,2-TRICHLOROETHANE)	PEST/PCB	Downstream end of 35-752 pond	975752007SD-AVG	96-SD007	0	SW8081	10/21/1997	Sediment	0.07	U	0.0004	0.06
p,p'-DDT (1,1-bis(CHLOROPHENYL)-2,2,2-TRICHLOROETHANE)	PEST/PCB	Drum Accumulation Area	94575210SL	SS 8	2'	8080	10/06/1994	Soil	0.04	U		0.04
p,p'-DDT (1,1-bis(CHLOROPHENYL)-2,2,2-TRICHLOROETHANE)	PEST/PCB	Drum Accumulation Area	94575211SL	SS 7	2'	8080	10/10/1994	Soil	0.02	U		0.02
p,p'-DDT (1,1-bis(CHLOROPHENYL)-2,2,2-TRICHLOROETHANE)	PEST/PCB	Drum Accumulation Area	94575212SL	SS 6	2'	8080	10/10/1994	Soil	0.04	U		0.04
p,p'-DDT (1,1-bis(CHLOROPHENYL)-2,2,2-TRICHLOROETHANE)	PEST/PCB	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8080	10/10/1994	Soil	0.01	U		0.01
p,p'-DDT (1,1-bis(CHLOROPHENYL)-2,2,2-TRICHLOROETHANE)	PEST/PCB	Drum Accumulation Area	94575215SL	SS 4	2'	8080	10/10/1994	Soil	0.01	U		0.01
p,p'-DDT (1,1-bis(CHLOROPHENYL)-2,2,2-TRICHLOROETHANE)	PEST/PCB	Drum Accumulation Area	94575216SL	SS 3	2'	8080	10/10/1994	Soil	0.01	U		0.01
p,p'-DDT (1,1-bis(CHLOROPHENYL)-2,2,2-TRICHLOROETHANE)	PEST/PCB	Drum Accumulation Area	94575217SL	SS 2	2'	8080	10/10/1994	Soil	0.01	U		0.01
p,p'-DDT (1,1-bis(CHLOROPHENYL)-2,2,2-TRICHLOROETHANE)	PEST/PCB	Drum Accumulation Area	94575218SL	SS 1	2'	8080	10/10/1994	Soil	0.01	U		0.01
p,p'-DDT (1,1-bis(CHLOROPHENYL)-2,2,2-TRICHLOROETHANE)	PEST/PCB	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8080	11/03/1994	Soil	0.1	U		0.1
p,p'-DDT (1,1-bis(CHLOROPHENYL)-2,2,2-TRICHLOROETHANE)	PEST/PCB	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8080	11/03/1994	Soil	0.01	U		0.01
p,p'-DDT (1,1-bis(CHLOROPHENYL)-2,2,2-TRICHLOROETHANE)	PEST/PCB	Cooling Pond	94575229SL	AP-3502	4'-6'	8080	11/07/1994	Soil	0.02	U		0.02
p,p'-DDT (1,1-bis(CHLOROPHENYL)-2,2,2-TRICHLOROETHANE)	PEST/PCB	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8080	11/09/1994	Soil	0.01	UD		0.01
p,p'-DDT (1,1-bis(CHLOROPHENYL)-2,2,2-TRICHLOROETHANE)	PEST/PCB	Cooling Pond	94575240SL	AP-3501	5'-7'	8080	11/11/1994	Soil	0.3	U		0.3
p,p'-DDT (1,1-bis(CHLOROPHENYL)-2,2,2-TRICHLOROETHANE)	PEST/PCB	965752BH01	96575225SL	AP-3785	5	8080	10/02/1996	Soil	0.0004	U	0.0004	0.0004
p,p'-DDT (1,1-bis(CHLOROPHENYL)-2,2,2-TRICHLOROETHANE)	PEST/PCB	965752BH04	96575238SL	AP-3788	2.5	8080	10/03/1996	Soil	0.002	J	0.0004	0.0004
p,p'-DDT (1,1-bis(CHLOROPHENYL)-2,2,2-TRICHLOROETHANE)	PEST/PCB	965752BH04	96575239SL-AVG	AP-3788	5	8080	10/03/1996	Soil	0.0004	UJ	0.0004	0.0004
p,p'-DDT (1,1-bis(CHLOROPHENYL)-2,2,2-TRICHLOROETHANE)	PEST/PCB	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8080	10/06/1994	Soil	0.025	UD		0.01
p,p'-DDT (1,1-bis(CHLOROPHENYL)-2,2,2-TRICHLOROETHANE)	PEST/PCB	Drum Accumulation Area	94575203SL	SS 2	6"	8080	10/06/1994	Soil	0.01	U		0.01
p,p'-DDT (1,1-bis(CHLOROPHENYL)-2,2,2-TRICHLOROETHANE)	PEST/PCB	Drum Accumulation Area	94575204SL	SS 3	6"	8080	10/06/1994	Soil	0.02	=		0.01
p,p'-DDT (1,1-bis(CHLOROPHENYL)-2,2,2-TRICHLOROETHANE)	PEST/PCB	Drum Accumulation Area	94575205SL	SS 4	6"	8080	10/06/1994	Soil	0.12	=		0.01
p,p'-DDT (1,1-bis(CHLOROPHENYL)-2,2,2-TRICHLOROETHANE)	PEST/PCB	Drum Accumulation Area	94575206SL	SS 5	6"	8080	10/06/1994	Soil	0.01	U		0.01
p,p'-DDT (1,1-bis(CHLOROPHENYL)-2,2,2-TRICHLOROETHANE)	PEST/PCB	Drum Accumulation Area	94575207SL	SS 6	6"	8080	10/06/1994	Soil	0.01	U		0.01
p,p'-DDT (1,1-bis(CHLOROPHENYL)-2,2,2-TRICHLOROETHANE)	PEST/PCB	Drum Accumulation Area	94575208SL	SS 7	6"	8080	10/06/1994	Soil	0.04	U		0.04
p,p'-DDT (1,1-bis(CHLOROPHENYL)-2,2,2-TRICHLOROETHANE)	PEST/PCB	Drum Accumulation Area	94575209SL	SS 8	6"	8080	10/06/1994	Soil	0.5	U		0.5
p,p'-DDT (1,1-bis(CHLOROPHENYL)-2,2,2-TRICHLOROETHANE)	PEST/PCB	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8080	11/03/1994	Soil	0.1	U		0.1
p,p'-DDT (1,1-bis(CHLOROPHENYL)-2,2,2-TRICHLOROETHANE)	PEST/PCB	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8080	11/03/1994	Soil	0.02	U		0.02
p,p'-DDT (1,1-bis(CHLOROPHENYL)-2,2,2-TRICHLOROETHANE)	PEST/PCB	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8080	11/07/1994	Soil	0.15	U		0.15
p,p'-DDT (1,1-bis(CHLOROPHENYL)-2,2,2-TRICHLOROETHANE)	PEST/PCB	Cooling Pond	94575231SL	AP-3503	0-6'	8080	11/08/1994	Soil	0.12	=		0.01
p,p'-DDT (1,1-bis(CHLOROPHENYL)-2,2,2-TRICHLOROETHANE)	PEST/PCB	Cooling Pond	94575235SL	AP-3504	0-2'	8080	11/09/1994	Soil	0.1	=		0.01
p,p'-DDT (1,1-bis(CHLOROPHENYL)-2,2,2-TRICHLOROETHANE)	PEST/PCB	965752BH04	96575236SL-AVG	AP-3788	0	8080	10/03/1996	Soil	0.124	J	0.0004	0.01
PCB-1016 (AROCLOR 1016)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752130SL	P1	0 - 0.5	SW8082	07/30/2002	Soil	0.00378	U	0.00378	0.0141
PCB-1016 (AROCLOR 1016)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752132SL	P1	1.5 - 2	SW8082	07/30/2002	Soil	0.00378	U	0.00378	0.0141
PCB-1016 (AROCLOR 1016)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752134SL	P2	1 - 1.5	SW8082	07/30/2002	Soil	0.00378	U	0.00378	0.0141
PCB-1016 (AROCLOR 1016)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752143SL	P5	1 - 1.5	SW8082	07/30/2002	Soil	0.00355	U	0.00355	0.0133
PCB-1016 (AROCLOR 1016)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752147SL	P6	1.5 - 2	SW8082	07/30/2002	Soil	0.00359	U	0.00359	0.0134
PCB-1016 (AROCLOR 1016)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752148SL	P7	0 - 0.5	SW8082	07/30/2002	Soil	0.0039	U	0.0039	0.0146
PCB-1016 (AROCLOR 1016)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752152SL	P8	1 - 1.5	SW8082	07/30/2002	Soil	0.00392	U	0.00392	0.0146
PCB-1016 (AROCLOR 1016)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752156SL	P9	1.5 - 2	SW8082	07/30/2002	Soil	0.00389	U	0.00389	0.0145
PCB-1016 (AROCLOR 1016)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752197SL	P22	1.5 - 2	SW8082	07/30/2002	Soil	0.0032	U	0.0032	0.0119
PCB-1016 (AROCLOR 1016)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752198SL	P23	0 - 0.5	SW8082	07/30/2002	Soil	0.00346	U	0.00346	0.0129
PCB-1016 (AROCLOR 1016)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752202SL	P24	1 - 1.5	SW8082	07/30/2002	Soil	0.00394	U	0.00394	0.0147
PCB-1016 (AROCLOR 1016)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752206SL	P25	1.5 - 2	SW8082	07/30/2002	Soil	0.0039	U	0.0039	0.0146
PCB-1016 (AROCLOR 1016)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752211SL	P27	1 - 1.5	SW8082	07/30/2002	Soil	0.0035	U	0.0035	0.0131
PCB-1016 (AROCLOR 1016)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752215SL	P28	1.5 - 2	SW8082	07/30/2002	Soil	0.0035	U	0.0035	0.013

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
PCB-1016 (AROCLOR 1016)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752220SL	P30	1 - 1.5	SW8082	07/30/2002	Soil	0.00354	U	0.00354	0.0132
PCB-1016 (AROCLOR 1016)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752221SL	P30	1 - 1.5	SW8082	07/30/2002	Soil	0.00362	U	0.00362	0.0135
PCB-1016 (AROCLOR 1016)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752157SL-AVG	P10	0 - 0.5	SW8082	07/30/2002	Soil	0.00364	U		
PCB-1016 (AROCLOR 1016)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752207SL	P26	0 - 0.5	SW8082	07/30/2002	Soil	0.00346	U		
PCB-1016 (AROCLOR 1016)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752216SL-AVG	P29	0 - 0.5	SW8082	07/30/2002	Soil	0.00363	U		
PCB-1016 (AROCLOR 1016)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75264SL	S31	1 - 1.5	SW8082	07/26/2002	Soil	0.0035	UR	0.0035	0.013
PCB-1016 (AROCLOR 1016)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75265SL	S32	0 - 0.5	SW8082	07/26/2002	Soil	0.0037	UR	0.0037	0.014
PCB-1016 (AROCLOR 1016)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75270SL	S34	1 - 1.5	SW8082	07/26/2002	Soil	0.0045	UR	0.0045	0.017
PCB-1016 (AROCLOR 1016)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75271SL	S35	0 - 0.5	SW8082	07/26/2002	Soil	0.004	UR	0.004	0.015
PCB-1016 (AROCLOR 1016)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75273SL	S36	0 - 0.5	SW8082	07/26/2002	Soil	0.0029	U	0.0029	0.011
PCB-1016 (AROCLOR 1016)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75275SL	S37	0 - 0.5	SW8082	07/26/2002	Soil	0.003	U	0.003	0.011
PCB-1016 (AROCLOR 1016)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75276SL	S37	1 - 1.5	SW8082	07/26/2002	Soil	0.0035	U	0.0035	0.013
PCB-1016 (AROCLOR 1016)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75277SL	S38	0 - 0.5	SW8082	07/26/2002	Soil	0.0036	UR	0.0036	0.013
PCB-1016 (AROCLOR 1016)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75279SL	S39	0 - 0.5	SW8082	07/26/2002	Soil	0.0035	UR	0.0035	0.013
PCB-1016 (AROCLOR 1016)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75281SL	S40	0 - 0.5	SW8082	07/26/2002	Soil	0.0037	UR	0.0037	0.014
PCB-1016 (AROCLOR 1016)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75283SL-AVG	S41	0 - 0.5	SW8082	07/26/2002	Soil	0.0037	UR		
PCB-1016 (AROCLOR 1016)	PEST/PCB	Bldg. 35-752, Transformer Mounting Area	02B75238SL	T13	0 - 0.5	SW8082	08/01/2002	Soil	0.00376	U	0.00376	0.014
PCB-1016 (AROCLOR 1016)	PEST/PCB	Bldg. 35-752, Transformer Mounting Area	02B75244SL	T15	0 - 0.5	SW8082	08/01/2002	Soil	0.00375	U	0.00375	0.014
PCB-1016 (AROCLOR 1016)	PEST/PCB	Bldg. 35-752, Transformer Mounting Area	02B75247SL	T16	0 - 0.5	SW8082	08/01/2002	Soil	0.00387	U	0.00387	0.0144
PCB-1016 (AROCLOR 1016)	PEST/PCB	Bldg. 35-752, Transformer Mounting Area	02B75250SL	T17	0 - 0.5	SW8082	08/01/2002	Soil	0.00365	U	0.00365	0.0136
PCB-1016 (AROCLOR 1016)	PEST/PCB	Bldg. 35-752, Transformer Mounting Area	02B75256SL	T19	0 - 0.5	SW8082	08/01/2002	Soil	0.00357	U	0.00357	0.0133
PCB-1016 (AROCLOR 1016)	PEST/PCB	Bldg. 35-752, Transformer Mounting Area	02B752246SL	T15	0.5 - 1	SW8082	10/15/2002	Soil	0.0037	U	0.0037	0.014
PCB-1016 (AROCLOR 1016)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B75201SL	T1	0 - 0.5	SW8082	08/01/2002	Soil	0.00432	U	0.00432	0.0161
PCB-1016 (AROCLOR 1016)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B75204SL	T2	0 - 0.5	SW8082	08/01/2002	Soil	0.00399	U	0.00399	0.0149
PCB-1016 (AROCLOR 1016)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B75207SL	T3	0 - 0.5	SW8082	08/01/2002	Soil	0.00365	U	0.00365	0.0136
PCB-1016 (AROCLOR 1016)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B75210SL	T4	0 - 0.5	SW8082	08/01/2002	Soil	0.0216	U	0.0216	0.0807
PCB-1016 (AROCLOR 1016)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B75213SL	T5	0 - 0.5	SW8082	08/01/2002	Soil	0.00371	U	0.00371	0.0138
PCB-1016 (AROCLOR 1016)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B75216SL	T6	0 - 0.5	SW8082	08/01/2002	Soil	0.0036	U	0.0036	0.0134
PCB-1016 (AROCLOR 1016)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B75219SL	T7	0 - 0.5	SW8082	08/01/2002	Soil	0.00355	U	0.00355	0.0132
PCB-1016 (AROCLOR 1016)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B75222SL	T8	0 - 0.5	SW8082	08/01/2002	Soil	0.00347	U	0.00347	0.013
PCB-1016 (AROCLOR 1016)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B75232SL	T11	0 - 0.5	SW8082	08/01/2002	Soil	0.00378	U	0.00378	0.0141
PCB-1016 (AROCLOR 1016)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B75228SL-AVG	T10	0 - 0.5	SW8082	08/01/2002	Soil	0.00409	U		
PCB-1016 (AROCLOR 1016)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B752205SL	T2	0.5 - 1	SW8082	10/15/2002	Soil	0.0037	U	0.0037	0.014
PCB-1016 (AROCLOR 1016)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B752214SL	T5	0.5 - 1	SW8082	10/15/2002	Soil	0.017	U	0.017	0.062
PCB-1016 (AROCLOR 1016)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B752218SL	T6	0.5 - 1	SW8082	10/15/2002	Soil	0.015	U	0.015	0.056
PCB-1016 (AROCLOR 1016)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B752233	T11	0.5 - 1	SW8082	10/15/2002	Soil	0.0045	U	0.0045	0.017
PCB-1016 (AROCLOR 1016)	PEST/PCB	fiber cable route	LCI 1-1	LCI1	1-2'	8082	05/10/2001	Soil	0.0313	U		0.0313
PCB-1016 (AROCLOR 1016)	PEST/PCB	fiber cable route	LCI 2-1	LCI2	1-2'	8082	05/10/2001	Soil	0.0323	U		0.0323
PCB-1016 (AROCLOR 1016)	PEST/PCB	fiber cable route	LCI 2-2	LCI2	2-3'	8082	05/10/2001	Soil	0.0313	U		0.0313
PCB-1016 (AROCLOR 1016)	PEST/PCB	fiber cable route	LCI 2-3-AVG	LCI2	3-4'	8082	05/10/2001	Soil	0.0325	U		0.0325
PCB-1016 (AROCLOR 1016)	PEST/PCB	fiber cable route	LCI 3-1	LCI3	1-2'	8082	05/10/2001	Soil	0.031	U		0.031
PCB-1016 (AROCLOR 1016)	PEST/PCB	fiber cable route	LCI 4-1	LCI4	1-2'	8082	05/10/2001	Soil	0.0326	U		0.0326
PCB-1016 (AROCLOR 1016)	PEST/PCB	fiber cable route	LCI 5-0	LCI5	0-1'	8082	05/10/2001	Soil	0.0346	U		0.0346
PCB-1016 (AROCLOR 1016)	PEST/PCB	fiber cable route	LCI 5-2	LCI5	2-3'	8082	05/10/2001	Soil	0.0321	U		0.0321
PCB-1016 (AROCLOR 1016)	PEST/PCB	fiber cable route	LCI 8-1	LCI8	0.5-1'	8082	05/10/2001	Soil	0.0329	U		0.0329
PCB-1016 (AROCLOR 1016)	PEST/PCB	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8080	12/08/1994	Sediment	0.1	U		0.1
PCB-1016 (AROCLOR 1016)	PEST/PCB	Cooling Pond	94575242SD	SD-B	0-6"	8080	12/08/1994	Sediment	0.1	U		0.1
PCB-1016 (AROCLOR 1016)	PEST/PCB	Cooling Pond	94575243SD	SD-C	0-6"	8080	12/08/1994	Sediment	0.1	U		0.1
PCB-1016 (AROCLOR 1016)	PEST/PCB	Cooling Pond	94575244SD	SD-D	0-6"	8080	12/08/1994	Sediment	0.1	U		0.1
PCB-1016 (AROCLOR 1016)	PEST/PCB	Cooling Pond	94575245SD	SD-E	0-6"	8080	12/08/1994	Sediment	0.1	U		0.1
PCB-1016 (AROCLOR 1016)	PEST/PCB	Cooling Pond	94575246SD	SD-F	0-6"	8080	12/08/1994	Sediment	0.1	U		0.1
PCB-1016 (AROCLOR 1016)	PEST/PCB	Cooling Pond	94575247SD	SD-G	0-6"	8080	12/08/1994	Sediment	0.1	U		0.1
PCB-1016 (AROCLOR 1016)	PEST/PCB	Cooling Pond	94575248SD	SD-H	0-6"	8080	12/08/1994	Sediment	0.1	U		0.1
PCB-1016 (AROCLOR 1016)	PEST/PCB	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8080	09/25/1996	Sediment	0.08	U	0.08	0.2
PCB-1016 (AROCLOR 1016)	PEST/PCB	119 ft from DP	96575205SD	96-SD5	----	8080	09/25/1996	Sediment	0.08	U	0.08	0.2
PCB-1016 (AROCLOR 1016)	PEST/PCB	147 ft from DP	96575206SD	96-SD6	----	8080	09/25/1996	Sediment	0.04	U	0.04	0.1
PCB-1016 (AROCLOR 1016)	PEST/PCB	165 ft from DP	96575208SD	96-SD8	----	8080	09/25/1996	Sediment	0.04	U	0.04	0.1
PCB-1016 (AROCLOR 1016)	PEST/PCB	171 ft from DP (east side)	96575209SD	96-SD9	----	8080	09/25/1996	Sediment	0.04	U	0.04	0.1
PCB-1016 (AROCLOR 1016)	PEST/PCB	171 ft from DP (west side)	96575207SD	96-SD7	----	8080	09/25/1996	Sediment	0.08	U	0.08	0.2
PCB-1016 (AROCLOR 1016)	PEST/PCB	40 ft from DP	96575202SD	96-SD2	----	8080	09/25/1996	Sediment	0.08	U	0.08	0.2
PCB-1016 (AROCLOR 1016)	PEST/PCB	79 ft from DP	96575203SD-AVG	96-SD3	----	8080	09/25/1996	Sediment	0.08	U	0.08	0.2
PCB-1016 (AROCLOR 1016)	PEST/PCB	Discharge pipe (DP)	96575201SD	96-SD1	----	8080	09/25/1996	Sediment	0.04	U	0.04	0.1

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
PCB-1016 (AROCLOR 1016)	PEST/PCB	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8080	09/26/1996	Sediment	0.08	U	0.08	0.2
PCB-1016 (AROCLOR 1016)	PEST/PCB	Downstream end of 35-752 pond	975752007SD-AVG	96-SD007	0	SW8081	10/21/1997	Sediment	0.04	U	0.04	0.2
PCB-1016 (AROCLOR 1016)	PEST/PCB	Drum Accumulation Area	94575210SL	SS 8	2'	8080	10/06/1994	Soil	0.1	U		0.1
PCB-1016 (AROCLOR 1016)	PEST/PCB	Drum Accumulation Area	94575211SL	SS 7	2'	8080	10/10/1994	Soil	0.1	U		0.1
PCB-1016 (AROCLOR 1016)	PEST/PCB	Drum Accumulation Area	94575212SL	SS 6	2'	8080	10/10/1994	Soil	0.1	U		0.1
PCB-1016 (AROCLOR 1016)	PEST/PCB	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8080	10/10/1994	Soil	0.1	U		0.1
PCB-1016 (AROCLOR 1016)	PEST/PCB	Drum Accumulation Area	94575215SL	SS 4	2'	8080	10/10/1994	Soil	0.1	U		0.1
PCB-1016 (AROCLOR 1016)	PEST/PCB	Drum Accumulation Area	94575216SL	SS 3	2'	8080	10/10/1994	Soil	0.1	U		0.1
PCB-1016 (AROCLOR 1016)	PEST/PCB	Drum Accumulation Area	94575217SL	SS 2	2'	8080	10/10/1994	Soil	0.1	U		0.1
PCB-1016 (AROCLOR 1016)	PEST/PCB	Drum Accumulation Area	94575218SL	SS 1	2'	8080	10/10/1994	Soil	0.1	U		0.1
PCB-1016 (AROCLOR 1016)	PEST/PCB	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8080	11/03/1994	Soil	0.1	U		0.1
PCB-1016 (AROCLOR 1016)	PEST/PCB	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8080	11/03/1994	Soil	0.1	U		0.1
PCB-1016 (AROCLOR 1016)	PEST/PCB	Cooling Pond	94575229SL	AP-3502	4'-6'	8080	11/07/1994	Soil	0.1	U		0.1
PCB-1016 (AROCLOR 1016)	PEST/PCB	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8080	11/09/1994	Soil	0.1	U		0.1
PCB-1016 (AROCLOR 1016)	PEST/PCB	Cooling Pond	94575240SL	AP-3501	5'-7'	8080	11/11/1994	Soil	0.1	U		0.1
PCB-1016 (AROCLOR 1016)	PEST/PCB	965752BH01	96575225SL	AP-3785	5	8080	10/02/1996	Soil	0.04	U	0.04	0.04
PCB-1016 (AROCLOR 1016)	PEST/PCB	965752BH03	96575231SL-AVG	AP-3787	2.5	8080	10/03/1996	Soil	0.04	U	0.04	0.04
PCB-1016 (AROCLOR 1016)	PEST/PCB	965752BH03	96575233SL	AP-3787	5	8080	10/03/1996	Soil	0.04	U	0.04	0.04
PCB-1016 (AROCLOR 1016)	PEST/PCB	965752BH04	96575238SL	AP-3788	2.5	8080	10/03/1996	Soil	0.04	U	0.04	0.04
PCB-1016 (AROCLOR 1016)	PEST/PCB	965752BH04	96575239SL-AVG	AP-3788	5	8080	10/03/1996	Soil	0.04	U	0.04	0.04
PCB-1016 (AROCLOR 1016)	PEST/PCB	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8080	10/06/1994	Soil	0.1	U		0.1
PCB-1016 (AROCLOR 1016)	PEST/PCB	Drum Accumulation Area	94575203SL	SS 2	6"	8080	10/06/1994	Soil	0.1	U		0.1
PCB-1016 (AROCLOR 1016)	PEST/PCB	Drum Accumulation Area	94575204SL	SS 3	6"	8080	10/06/1994	Soil	0.1	U		0.1
PCB-1016 (AROCLOR 1016)	PEST/PCB	Drum Accumulation Area	94575205SL	SS 4	6"	8080	10/06/1994	Soil	0.1	U		0.1
PCB-1016 (AROCLOR 1016)	PEST/PCB	Drum Accumulation Area	94575206SL	SS 5	6"	8080	10/06/1994	Soil	0.1	U		0.1
PCB-1016 (AROCLOR 1016)	PEST/PCB	Drum Accumulation Area	94575207SL	SS 6	6"	8080	10/06/1994	Soil	0.1	U		0.1
PCB-1016 (AROCLOR 1016)	PEST/PCB	Drum Accumulation Area	94575208SL	SS 7	6"	8080	10/06/1994	Soil	0.1	U		0.1
PCB-1016 (AROCLOR 1016)	PEST/PCB	Drum Accumulation Area	94575209SL	SS 8	6"	8080	10/06/1994	Soil	0.1	U		0.1
PCB-1016 (AROCLOR 1016)	PEST/PCB	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8080	11/03/1994	Soil	0.1	U		0.1
PCB-1016 (AROCLOR 1016)	PEST/PCB	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8080	11/03/1994	Soil	0.1	U		0.1
PCB-1016 (AROCLOR 1016)	PEST/PCB	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8080	11/07/1994	Soil	0.1	U		0.1
PCB-1016 (AROCLOR 1016)	PEST/PCB	Cooling Pond	94575231SL	AP-3503	0-6'	8080	11/08/1994	Soil	0.1	U		0.1
PCB-1016 (AROCLOR 1016)	PEST/PCB	Cooling Pond	94575235SL	AP-3504	0-2'	8080	11/09/1994	Soil	0.1	U		0.1
PCB-1016 (AROCLOR 1016)	PEST/PCB	965752BH03	96575230SL	AP-3787	0	8080	10/03/1996	Soil	0.04	U	0.04	0.1
PCB-1016 (AROCLOR 1016)	PEST/PCB	965752BH04	96575236SL-AVG	AP-3788	0	8080	10/03/1996	Soil	0.04	U	0.04	0.1
PCB-1221 (AROCLOR 1221)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752130SL	P1	0 - 0.5	SW8082	07/30/2002	Soil	0.00378	U	0.00378	0.0141
PCB-1221 (AROCLOR 1221)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752132SL	P1	1.5 - 2	SW8082	07/30/2002	Soil	0.00378	U	0.00378	0.0141
PCB-1221 (AROCLOR 1221)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752134SL	P2	1 - 1.5	SW8082	07/30/2002	Soil	0.00378	U	0.00378	0.0141
PCB-1221 (AROCLOR 1221)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752143SL	P5	1 - 1.5	SW8082	07/30/2002	Soil	0.00355	U	0.00355	0.0133
PCB-1221 (AROCLOR 1221)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752147SL	P6	1.5 - 2	SW8082	07/30/2002	Soil	0.00359	U	0.00359	0.0134
PCB-1221 (AROCLOR 1221)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752148SL	P7	0 - 0.5	SW8082	07/30/2002	Soil	0.0039	U	0.0039	0.0146
PCB-1221 (AROCLOR 1221)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752152SL	P8	1 - 1.5	SW8082	07/30/2002	Soil	0.00392	U	0.00392	0.0146
PCB-1221 (AROCLOR 1221)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752156SL	P9	1.5 - 2	SW8082	07/30/2002	Soil	0.00389	U	0.00389	0.0145
PCB-1221 (AROCLOR 1221)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752197SL	P22	1.5 - 2	SW8082	07/30/2002	Soil	0.0032	U	0.0032	0.0119
PCB-1221 (AROCLOR 1221)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752198SL	P23	0 - 0.5	SW8082	07/30/2002	Soil	0.00346	U	0.00346	0.0129
PCB-1221 (AROCLOR 1221)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752202SL	P24	1 - 1.5	SW8082	07/30/2002	Soil	0.00394	U	0.00394	0.0147
PCB-1221 (AROCLOR 1221)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752206SL	P25	1.5 - 2	SW8082	07/30/2002	Soil	0.0039	U	0.0039	0.0146
PCB-1221 (AROCLOR 1221)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752211SL	P27	1 - 1.5	SW8082	07/30/2002	Soil	0.0035	U	0.0035	0.0131
PCB-1221 (AROCLOR 1221)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752215SL	P28	1.5 - 2	SW8082	07/30/2002	Soil	0.0035	U	0.0035	0.013
PCB-1221 (AROCLOR 1221)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752220SL	P30	1 - 1.5	SW8082	07/30/2002	Soil	0.00354	U	0.00354	0.0132
PCB-1221 (AROCLOR 1221)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752221SL	P30	1 - 1.5	SW8082	07/30/2002	Soil	0.00362	U	0.00362	0.0135
PCB-1221 (AROCLOR 1221)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752157SL-AVG	P10	0 - 0.5	SW8082	07/30/2002	Soil	0.00364	U		
PCB-1221 (AROCLOR 1221)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752207SL	P26	0 - 0.5	SW8082	07/30/2002	Soil	0.00346	U		
PCB-1221 (AROCLOR 1221)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752216SL-AVG	P29	0 - 0.5	SW8082	07/30/2002	Soil	0.00363	U		
PCB-1221 (AROCLOR 1221)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75264SL	S31	1 - 1.5	SW8082	07/26/2002	Soil	0.0035	U	0.0035	0.013
PCB-1221 (AROCLOR 1221)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75265SL	S32	0 - 0.5	SW8082	07/26/2002	Soil	0.0037	U	0.0037	0.014
PCB-1221 (AROCLOR 1221)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75270SL	S34	1 - 1.5	SW8082	07/26/2002	Soil	0.0045	U	0.0045	0.017
PCB-1221 (AROCLOR 1221)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75271SL	S35	0 - 0.5	SW8082	07/26/2002	Soil	0.004	U	0.004	0.015
PCB-1221 (AROCLOR 1221)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75273SL	S36	0 - 0.5	SW8082	07/26/2002	Soil	0.0029	U	0.0029	0.011
PCB-1221 (AROCLOR 1221)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75275SL	S37	0 - 0.5	SW8082	07/26/2002	Soil	0.003	U	0.003	0.011
PCB-1221 (AROCLOR 1221)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75276SL	S37	1 - 1.5	SW8082	07/26/2002	Soil	0.0035	U	0.0035	0.013
PCB-1221 (AROCLOR 1221)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75277SL	S38	0 - 0.5	SW8082	07/26/2002	Soil	0.0036	U	0.0036	0.013

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
PCB-1221 (AROCLOR 1221)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75279SL	S39	0 - 0.5	SW8082	07/26/2002	Soil	0.0035	U	0.0035	0.013
PCB-1221 (AROCLOR 1221)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75281SL	S40	0 - 0.5	SW8082	07/26/2002	Soil	0.0037	U	0.0037	0.014
PCB-1221 (AROCLOR 1221)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75283SL-AVG	S41	0 - 0.5	SW8082	07/26/2002	Soil	0.0037	U		
PCB-1221 (AROCLOR 1221)	PEST/PCB	Bldg. 35-752, Transformer Mounting Area	02B75238SL	T13	0 - 0.5	SW8082	08/01/2002	Soil	0.00376	U	0.00376	0.014
PCB-1221 (AROCLOR 1221)	PEST/PCB	Bldg. 35-752, Transformer Mounting Area	02B75244SL	T15	0 - 0.5	SW8082	08/01/2002	Soil	0.00375	U	0.00375	0.014
PCB-1221 (AROCLOR 1221)	PEST/PCB	Bldg. 35-752, Transformer Mounting Area	02B75247SL	T16	0 - 0.5	SW8082	08/01/2002	Soil	0.00387	U	0.00387	0.0144
PCB-1221 (AROCLOR 1221)	PEST/PCB	Bldg. 35-752, Transformer Mounting Area	02B75250SL	T17	0 - 0.5	SW8082	08/01/2002	Soil	0.00365	U	0.00365	0.0136
PCB-1221 (AROCLOR 1221)	PEST/PCB	Bldg. 35-752, Transformer Mounting Area	02B75256SL	T19	0 - 0.5	SW8082	08/01/2002	Soil	0.00357	U	0.00357	0.0133
PCB-1221 (AROCLOR 1221)	PEST/PCB	Bldg. 35-752, Transformer Mounting Area	02B752246SL	T15	0.5 - 1	SW8082	10/15/2002	Soil	0.0037	U	0.0037	0.014
PCB-1221 (AROCLOR 1221)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B75201SL	T1	0 - 0.5	SW8082	08/01/2002	Soil	0.00432	U	0.00432	0.0161
PCB-1221 (AROCLOR 1221)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B75204SL	T2	0 - 0.5	SW8082	08/01/2002	Soil	0.00399	U	0.00399	0.0149
PCB-1221 (AROCLOR 1221)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B75207SL	T3	0 - 0.5	SW8082	08/01/2002	Soil	0.00365	U	0.00365	0.0136
PCB-1221 (AROCLOR 1221)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B75210SL	T4	0 - 0.5	SW8082	08/01/2002	Soil	0.0216	U	0.0216	0.0807
PCB-1221 (AROCLOR 1221)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B75213SL	T5	0 - 0.5	SW8082	08/01/2002	Soil	0.00371	U	0.00371	0.0138
PCB-1221 (AROCLOR 1221)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B75216SL	T6	0 - 0.5	SW8082	08/01/2002	Soil	0.0036	U	0.0036	0.0134
PCB-1221 (AROCLOR 1221)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B75219SL	T7	0 - 0.5	SW8082	08/01/2002	Soil	0.00355	U	0.00355	0.0132
PCB-1221 (AROCLOR 1221)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B75222SL	T8	0 - 0.5	SW8082	08/01/2002	Soil	0.00347	U	0.00347	0.013
PCB-1221 (AROCLOR 1221)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B75232SL	T11	0 - 0.5	SW8082	08/01/2002	Soil	0.00378	U	0.00378	0.0141
PCB-1221 (AROCLOR 1221)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B75228SL-AVG	T10	0 - 0.5	SW8082	08/01/2002	Soil	0.00409	U		
PCB-1221 (AROCLOR 1221)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B752205SL	T2	0.5 - 1	SW8082	10/15/2002	Soil	0.0037	U	0.0037	0.014
PCB-1221 (AROCLOR 1221)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B752214SL	T5	0.5 - 1	SW8082	10/15/2002	Soil	0.017	U	0.017	0.062
PCB-1221 (AROCLOR 1221)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B752218SL	T6	0.5 - 1	SW8082	10/15/2002	Soil	0.015	U	0.015	0.056
PCB-1221 (AROCLOR 1221)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B752233	T11	0.5 - 1	SW8082	10/15/2002	Soil	0.0045	U	0.0045	0.017
PCB-1221 (AROCLOR 1221)	PEST/PCB	fiber cable route	LCI 1-1	LCI1	1-2'	8082	05/10/2001	Soil	0.0313	U		0.0313
PCB-1221 (AROCLOR 1221)	PEST/PCB	fiber cable route	LCI 2-1	LCI2	1-2'	8082	05/10/2001	Soil	0.0323	U		0.0323
PCB-1221 (AROCLOR 1221)	PEST/PCB	fiber cable route	LCI 2-2	LCI2	2-3'	8082	05/10/2001	Soil	0.0313	U		0.0313
PCB-1221 (AROCLOR 1221)	PEST/PCB	fiber cable route	LCI 2-3-AVG	LCI2	3-4'	8082	05/10/2001	Soil	0.0325	U		0.0325
PCB-1221 (AROCLOR 1221)	PEST/PCB	fiber cable route	LCI 3-1	LCI3	1-2'	8082	05/10/2001	Soil	0.031	U		0.031
PCB-1221 (AROCLOR 1221)	PEST/PCB	fiber cable route	LCI 4-1	LCI4	1-2'	8082	05/10/2001	Soil	0.0326	U		0.0326
PCB-1221 (AROCLOR 1221)	PEST/PCB	fiber cable route	LCI 5-0	LCI5	0-1'	8082	05/10/2001	Soil	0.0346	U		0.0346
PCB-1221 (AROCLOR 1221)	PEST/PCB	fiber cable route	LCI 5-2	LCI5	2-3'	8082	05/10/2001	Soil	0.0321	U		0.0321
PCB-1221 (AROCLOR 1221)	PEST/PCB	fiber cable route	LCI 8-1	LCI8	0.5-1'	8082	05/10/2001	Soil	0.0329	U		0.0329
PCB-1221 (AROCLOR 1221)	PEST/PCB	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8080	12/08/1994	Sediment	0.1	U		0.1
PCB-1221 (AROCLOR 1221)	PEST/PCB	Cooling Pond	94575242SD	SD-B	0-6"	8080	12/08/1994	Sediment	0.1	U		0.1
PCB-1221 (AROCLOR 1221)	PEST/PCB	Cooling Pond	94575243SD	SD-C	0-6"	8080	12/08/1994	Sediment	0.1	U		0.1
PCB-1221 (AROCLOR 1221)	PEST/PCB	Cooling Pond	94575244SD	SD-D	0-6"	8080	12/08/1994	Sediment	0.1	U		0.1
PCB-1221 (AROCLOR 1221)	PEST/PCB	Cooling Pond	94575245SD	SD-E	0-6"	8080	12/08/1994	Sediment	0.1	U		0.1
PCB-1221 (AROCLOR 1221)	PEST/PCB	Cooling Pond	94575246SD	SD-F	0-6"	8080	12/08/1994	Sediment	0.1	U		0.1
PCB-1221 (AROCLOR 1221)	PEST/PCB	Cooling Pond	94575247SD	SD-G	0-6"	8080	12/08/1994	Sediment	0.1	U		0.1
PCB-1221 (AROCLOR 1221)	PEST/PCB	Cooling Pond	94575248SD	SD-H	0-6"	8080	12/08/1994	Sediment	0.1	U		0.1
PCB-1221 (AROCLOR 1221)	PEST/PCB	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8080	09/25/1996	Sediment	0.2	U	0.2	0.2
PCB-1221 (AROCLOR 1221)	PEST/PCB	119 ft from DP	96575205SD	96-SD5	----	8080	09/25/1996	Sediment	0.2	U	0.2	0.2
PCB-1221 (AROCLOR 1221)	PEST/PCB	147 ft from DP	96575206SD	96-SD6	----	8080	09/25/1996	Sediment	0.06	U	0.06	0.1
PCB-1221 (AROCLOR 1221)	PEST/PCB	165 ft from DP	96575208SD	96-SD8	----	8080	09/25/1996	Sediment	0.06	U	0.06	0.1
PCB-1221 (AROCLOR 1221)	PEST/PCB	171 ft from DP (east side)	96575209SD	96-SD9	----	8080	09/25/1996	Sediment	0.06	U	0.06	0.1
PCB-1221 (AROCLOR 1221)	PEST/PCB	171 ft from DP (west side)	96575207SD	96-SD7	----	8080	09/25/1996	Sediment	0.2	U	0.2	0.2
PCB-1221 (AROCLOR 1221)	PEST/PCB	40 ft from DP	96575202SD	96-SD2	----	8080	09/25/1996	Sediment	0.2	U	0.2	0.2
PCB-1221 (AROCLOR 1221)	PEST/PCB	79 ft from DP	96575203SD-AVG	96-SD3	----	8080	09/25/1996	Sediment	0.2	U	0.2	0.2
PCB-1221 (AROCLOR 1221)	PEST/PCB	Discharge pipe (DP)	96575201SD	96-SD1	----	8080	09/25/1996	Sediment	0.06	U	0.06	0.1
PCB-1221 (AROCLOR 1221)	PEST/PCB	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8080	09/26/1996	Sediment	0.2	U	0.2	0.2
PCB-1221 (AROCLOR 1221)	PEST/PCB	Downstream end of 35-752 pond	975752007SD-AVG	96-SD007	0	SW8081	10/21/1997	Sediment	0.02	U	0.02	0.2
PCB-1221 (AROCLOR 1221)	PEST/PCB	Drum Accumulation Area	94575210SL	SS 8	2'	8080	10/06/1994	Soil	0.1	U		0.1
PCB-1221 (AROCLOR 1221)	PEST/PCB	Drum Accumulation Area	94575211SL	SS 7	2'	8080	10/10/1994	Soil	0.1	U		0.1
PCB-1221 (AROCLOR 1221)	PEST/PCB	Drum Accumulation Area	94575212SL	SS 6	2'	8080	10/10/1994	Soil	0.1	U		0.1
PCB-1221 (AROCLOR 1221)	PEST/PCB	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8080	10/10/1994	Soil	0.1	U		0.1
PCB-1221 (AROCLOR 1221)	PEST/PCB	Drum Accumulation Area	94575215SL	SS 4	2'	8080	10/10/1994	Soil	0.1	U		0.1
PCB-1221 (AROCLOR 1221)	PEST/PCB	Drum Accumulation Area	94575216SL	SS 3	2'	8080	10/10/1994	Soil	0.1	U		0.1
PCB-1221 (AROCLOR 1221)	PEST/PCB	Drum Accumulation Area	94575217SL	SS 2	2'	8080	10/10/1994	Soil	0.1	U		0.1
PCB-1221 (AROCLOR 1221)	PEST/PCB	Drum Accumulation Area	94575218SL	SS 1	2'	8080	10/10/1994	Soil	0.1	U		0.1
PCB-1221 (AROCLOR 1221)	PEST/PCB	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8080	11/03/1994	Soil	0.1	U		0.1
PCB-1221 (AROCLOR 1221)	PEST/PCB	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8080	11/03/1994	Soil	0.1	U		0.1
PCB-1221 (AROCLOR 1221)	PEST/PCB	Cooling Pond	94575229SL	AP-3502	4'-6'	8080	11/07/1994	Soil	0.1	U		0.1

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
PCB-1221 (AROCLOR 1221)	PEST/PCB	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8080	11/09/1994	Soil	0.1	U		0.1
PCB-1221 (AROCLOR 1221)	PEST/PCB	Cooling Pond	94575240SL	AP-3501	5'-7'	8080	11/11/1994	Soil	0.1	U		0.1
PCB-1221 (AROCLOR 1221)	PEST/PCB	965752BH01	96575225SL	AP-3785	5	8080	10/02/1996	Soil	0.06	U	0.06	0.06
PCB-1221 (AROCLOR 1221)	PEST/PCB	965752BH03	96575231SL-AVG	AP-3787	2.5	8080	10/03/1996	Soil	0.06	U	0.06	0.06
PCB-1221 (AROCLOR 1221)	PEST/PCB	965752BH03	96575233SL	AP-3787	5	8080	10/03/1996	Soil	0.06	U	0.06	0.06
PCB-1221 (AROCLOR 1221)	PEST/PCB	965752BH04	96575238SL	AP-3788	2.5	8080	10/03/1996	Soil	0.06	U	0.06	0.06
PCB-1221 (AROCLOR 1221)	PEST/PCB	965752BH04	96575239SL-AVG	AP-3788	5	8080	10/03/1996	Soil	0.06	U	0.06	0.06
PCB-1221 (AROCLOR 1221)	PEST/PCB	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8080	10/06/1994	Soil	0.1	U		0.1
PCB-1221 (AROCLOR 1221)	PEST/PCB	Drum Accumulation Area	94575203SL	SS 2	6"	8080	10/06/1994	Soil	0.1	U		0.1
PCB-1221 (AROCLOR 1221)	PEST/PCB	Drum Accumulation Area	94575204SL	SS 3	6"	8080	10/06/1994	Soil	0.1	U		0.1
PCB-1221 (AROCLOR 1221)	PEST/PCB	Drum Accumulation Area	94575205SL	SS 4	6"	8080	10/06/1994	Soil	0.1	U		0.1
PCB-1221 (AROCLOR 1221)	PEST/PCB	Drum Accumulation Area	94575206SL	SS 5	6"	8080	10/06/1994	Soil	0.1	U		0.1
PCB-1221 (AROCLOR 1221)	PEST/PCB	Drum Accumulation Area	94575207SL	SS 6	6"	8080	10/06/1994	Soil	0.1	U		0.1
PCB-1221 (AROCLOR 1221)	PEST/PCB	Drum Accumulation Area	94575208SL	SS 7	6"	8080	10/06/1994	Soil	0.1	U		0.1
PCB-1221 (AROCLOR 1221)	PEST/PCB	Drum Accumulation Area	94575209SL	SS 8	6"	8080	10/06/1994	Soil	0.1	U		0.1
PCB-1221 (AROCLOR 1221)	PEST/PCB	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8080	11/03/1994	Soil	0.1	U		0.1
PCB-1221 (AROCLOR 1221)	PEST/PCB	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8080	11/03/1994	Soil	0.1	U		0.1
PCB-1221 (AROCLOR 1221)	PEST/PCB	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8080	11/07/1994	Soil	0.1	U		0.1
PCB-1221 (AROCLOR 1221)	PEST/PCB	Cooling Pond	94575231SL	AP-3503	0-6'	8080	11/08/1994	Soil	0.1	U		0.1
PCB-1221 (AROCLOR 1221)	PEST/PCB	Cooling Pond	94575235SL	AP-3504	0-2'	8080	11/09/1994	Soil	0.1	U		0.1
PCB-1221 (AROCLOR 1221)	PEST/PCB	965752BH03	96575230SL	AP-3787	0	8080	10/03/1996	Soil	0.06	U	0.06	0.1
PCB-1221 (AROCLOR 1221)	PEST/PCB	965752BH04	96575236SL-AVG	AP-3788	0	8080	10/03/1996	Soil	0.06	U	0.06	0.1
PCB-1232 (AROCLOR 1232)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752130SL	P1	0 - 0.5	SW8082	07/30/2002	Soil	0.00378	U	0.00378	0.0141
PCB-1232 (AROCLOR 1232)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752132SL	P1	1.5 - 2	SW8082	07/30/2002	Soil	0.00378	U	0.00378	0.0141
PCB-1232 (AROCLOR 1232)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752134SL	P2	1 - 1.5	SW8082	07/30/2002	Soil	0.00378	U	0.00378	0.0141
PCB-1232 (AROCLOR 1232)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752143SL	P5	1 - 1.5	SW8082	07/30/2002	Soil	0.00355	U	0.00355	0.0133
PCB-1232 (AROCLOR 1232)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752147SL	P6	1.5 - 2	SW8082	07/30/2002	Soil	0.00359	U	0.00359	0.0134
PCB-1232 (AROCLOR 1232)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752148SL	P7	0 - 0.5	SW8082	07/30/2002	Soil	0.0039	U	0.0039	0.0146
PCB-1232 (AROCLOR 1232)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752152SL	P8	1 - 1.5	SW8082	07/30/2002	Soil	0.00392	U	0.00392	0.0146
PCB-1232 (AROCLOR 1232)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752156SL	P9	1.5 - 2	SW8082	07/30/2002	Soil	0.00389	U	0.00389	0.0145
PCB-1232 (AROCLOR 1232)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752197SL	P22	1.5 - 2	SW8082	07/30/2002	Soil	0.0032	U	0.0032	0.0119
PCB-1232 (AROCLOR 1232)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752198SL	P23	0 - 0.5	SW8082	07/30/2002	Soil	0.00346	U	0.00346	0.0129
PCB-1232 (AROCLOR 1232)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752202SL	P24	1 - 1.5	SW8082	07/30/2002	Soil	0.00394	U	0.00394	0.0147
PCB-1232 (AROCLOR 1232)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752206SL	P25	1.5 - 2	SW8082	07/30/2002	Soil	0.0039	U	0.0039	0.0146
PCB-1232 (AROCLOR 1232)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752211SL	P27	1 - 1.5	SW8082	07/30/2002	Soil	0.0035	U	0.0035	0.0131
PCB-1232 (AROCLOR 1232)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752215SL	P28	1.5 - 2	SW8082	07/30/2002	Soil	0.0035	U	0.0035	0.013
PCB-1232 (AROCLOR 1232)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752220SL	P30	1 - 1.5	SW8082	07/30/2002	Soil	0.00354	U	0.00354	0.0132
PCB-1232 (AROCLOR 1232)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752221SL	P30	1 - 1.5	SW8082	07/30/2002	Soil	0.00362	U	0.00362	0.0135
PCB-1232 (AROCLOR 1232)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752157SL-AVG	P10	0 - 0.5	SW8082	07/30/2002	Soil	0.00364	U		
PCB-1232 (AROCLOR 1232)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752207SL	P26	0 - 0.5	SW8082	07/30/2002	Soil	0.00346	U		
PCB-1232 (AROCLOR 1232)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752216SL-AVG	P29	0 - 0.5	SW8082	07/30/2002	Soil	0.00363	U		
PCB-1232 (AROCLOR 1232)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75264SL	S31	1 - 1.5	SW8082	07/26/2002	Soil	0.0035	U	0.0035	0.013
PCB-1232 (AROCLOR 1232)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75265SL	S32	0 - 0.5	SW8082	07/26/2002	Soil	0.0037	U	0.0037	0.014
PCB-1232 (AROCLOR 1232)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75270SL	S34	1 - 1.5	SW8082	07/26/2002	Soil	0.0045	U	0.0045	0.017
PCB-1232 (AROCLOR 1232)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75271SL	S35	0 - 0.5	SW8082	07/26/2002	Soil	0.004	U	0.004	0.015
PCB-1232 (AROCLOR 1232)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75273SL	S36	0 - 0.5	SW8082	07/26/2002	Soil	0.0029	U	0.0029	0.011
PCB-1232 (AROCLOR 1232)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75275SL	S37	0 - 0.5	SW8082	07/26/2002	Soil	0.003	U	0.003	0.011
PCB-1232 (AROCLOR 1232)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75276SL	S37	1 - 1.5	SW8082	07/26/2002	Soil	0.0035	U	0.0035	0.013
PCB-1232 (AROCLOR 1232)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75277SL	S38	0 - 0.5	SW8082	07/26/2002	Soil	0.0036	U	0.0036	0.013
PCB-1232 (AROCLOR 1232)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75279SL	S39	0 - 0.5	SW8082	07/26/2002	Soil	0.0035	U	0.0035	0.013
PCB-1232 (AROCLOR 1232)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75281SL	S40	0 - 0.5	SW8082	07/26/2002	Soil	0.0037	U	0.0037	0.014
PCB-1232 (AROCLOR 1232)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75283SL-AVG	S41	0 - 0.5	SW8082	07/26/2002	Soil	0.0037	U		
PCB-1232 (AROCLOR 1232)	PEST/PCB	Bldg. 35-752, Transformer Mounting Area	02B75238SL	T13	0 - 0.5	SW8082	08/01/2002	Soil	0.00376	U	0.00376	0.014
PCB-1232 (AROCLOR 1232)	PEST/PCB	Bldg. 35-752, Transformer Mounting Area	02B75244SL	T15	0 - 0.5	SW8082	08/01/2002	Soil	0.00375	U	0.00375	0.014
PCB-1232 (AROCLOR 1232)	PEST/PCB	Bldg. 35-752, Transformer Mounting Area	02B75247SL	T16	0 - 0.5	SW8082	08/01/2002	Soil	0.00387	U	0.00387	0.0144
PCB-1232 (AROCLOR 1232)	PEST/PCB	Bldg. 35-752, Transformer Mounting Area	02B75250SL	T17	0 - 0.5	SW8082	08/01/2002	Soil	0.00365	U	0.00365	0.0136
PCB-1232 (AROCLOR 1232)	PEST/PCB	Bldg. 35-752, Transformer Mounting Area	02B75256SL	T19	0 - 0.5	SW8082	08/01/2002	Soil	0.00357	U	0.00357	0.0133
PCB-1232 (AROCLOR 1232)	PEST/PCB	Bldg. 35-752, Transformer Mounting Area	02B752246SL	T15	0.5 - 1	SW8082	10/15/2002	Soil	0.0037	U	0.0037	0.014
PCB-1232 (AROCLOR 1232)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B75201SL	T1	0 - 0.5	SW8082	08/01/2002	Soil	0.00432	U	0.00432	0.0161
PCB-1232 (AROCLOR 1232)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B75204SL	T2	0 - 0.5	SW8082	08/01/2002	Soil	0.00399	U	0.00399	0.0149
PCB-1232 (AROCLOR 1232)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B75207SL	T3	0 - 0.5	SW8082	08/01/2002	Soil	0.00365	U	0.00365	0.0136
PCB-1232 (AROCLOR 1232)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B75210SL	T4	0 - 0.5	SW8082	08/01/2002	Soil	0.0216	U	0.0216	0.0807

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
PCB-1232 (AROCLOR 1232)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B75213SL	T5	0 - 0.5	SW8082	08/01/2002	Soil	0.00371	U	0.00371	0.0138
PCB-1232 (AROCLOR 1232)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B75216SL	T6	0 - 0.5	SW8082	08/01/2002	Soil	0.0036	U	0.0036	0.0134
PCB-1232 (AROCLOR 1232)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B75219SL	T7	0 - 0.5	SW8082	08/01/2002	Soil	0.00355	U	0.00355	0.0132
PCB-1232 (AROCLOR 1232)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B75222SL	T8	0 - 0.5	SW8082	08/01/2002	Soil	0.00347	U	0.00347	0.013
PCB-1232 (AROCLOR 1232)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B75232SL	T11	0 - 0.5	SW8082	08/01/2002	Soil	0.00378	U	0.00378	0.0141
PCB-1232 (AROCLOR 1232)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B75228SL-AVG	T10	0 - 0.5	SW8082	08/01/2002	Soil	0.00409	U		
PCB-1232 (AROCLOR 1232)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B752205SL	T2	0.5 - 1	SW8082	10/15/2002	Soil	0.0037	U	0.0037	0.014
PCB-1232 (AROCLOR 1232)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B752214SL	T5	0.5 - 1	SW8082	10/15/2002	Soil	0.017	U	0.017	0.062
PCB-1232 (AROCLOR 1232)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B752218SL	T6	0.5 - 1	SW8082	10/15/2002	Soil	0.015	U	0.015	0.056
PCB-1232 (AROCLOR 1232)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B752233	T11	0.5 - 1	SW8082	10/15/2002	Soil	0.0045	U	0.0045	0.017
PCB-1232 (AROCLOR 1232)	PEST/PCB	fiber cable route	LCI 1-1	LCI1	1-2'	8082	05/10/2001	Soil	0.0313	U		0.0313
PCB-1232 (AROCLOR 1232)	PEST/PCB	fiber cable route	LCI 2-1	LCI2	1-2'	8082	05/10/2001	Soil	0.0323	U		0.0323
PCB-1232 (AROCLOR 1232)	PEST/PCB	fiber cable route	LCI 2-2	LCI2	2-3'	8082	05/10/2001	Soil	0.0313	U		0.0313
PCB-1232 (AROCLOR 1232)	PEST/PCB	fiber cable route	LCI 2-3-AVG	LCI2	3-4'	8082	05/10/2001	Soil	0.0325	U		0.0325
PCB-1232 (AROCLOR 1232)	PEST/PCB	fiber cable route	LCI 3-1	LCI3	1-2'	8082	05/10/2001	Soil	0.031	U		0.031
PCB-1232 (AROCLOR 1232)	PEST/PCB	fiber cable route	LCI 4-1	LCI4	1-2'	8082	05/10/2001	Soil	0.0326	U		0.0326
PCB-1232 (AROCLOR 1232)	PEST/PCB	fiber cable route	LCI 5-0	LCI5	0-1'	8082	05/10/2001	Soil	0.0346	U		0.0346
PCB-1232 (AROCLOR 1232)	PEST/PCB	fiber cable route	LCI 5-2	LCI5	2-3'	8082	05/10/2001	Soil	0.0321	U		0.0321
PCB-1232 (AROCLOR 1232)	PEST/PCB	fiber cable route	LCI 8-1	LCI8	0.5-1'	8082	05/10/2001	Soil	0.0329	U		0.0329
PCB-1232 (AROCLOR 1232)	PEST/PCB	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8080	12/08/1994	Sediment	0.1	U		0.1
PCB-1232 (AROCLOR 1232)	PEST/PCB	Cooling Pond	94575242SD	SD-B	0-6"	8080	12/08/1994	Sediment	0.1	U		0.1
PCB-1232 (AROCLOR 1232)	PEST/PCB	Cooling Pond	94575243SD	SD-C	0-6"	8080	12/08/1994	Sediment	0.1	U		0.1
PCB-1232 (AROCLOR 1232)	PEST/PCB	Cooling Pond	94575244SD	SD-D	0-6"	8080	12/08/1994	Sediment	0.1	U		0.1
PCB-1232 (AROCLOR 1232)	PEST/PCB	Cooling Pond	94575245SD	SD-E	0-6"	8080	12/08/1994	Sediment	0.1	U		0.1
PCB-1232 (AROCLOR 1232)	PEST/PCB	Cooling Pond	94575246SD	SD-F	0-6"	8080	12/08/1994	Sediment	0.1	U		0.1
PCB-1232 (AROCLOR 1232)	PEST/PCB	Cooling Pond	94575247SD	SD-G	0-6"	8080	12/08/1994	Sediment	0.1	U		0.1
PCB-1232 (AROCLOR 1232)	PEST/PCB	Cooling Pond	94575248SD	SD-H	0-6"	8080	12/08/1994	Sediment	0.1	U		0.1
PCB-1232 (AROCLOR 1232)	PEST/PCB	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8080	09/25/1996	Sediment	0.2	U	0.2	0.2
PCB-1232 (AROCLOR 1232)	PEST/PCB	119 ft from DP	96575205SD	96-SD5	----	8080	09/25/1996	Sediment	0.2	U	0.2	0.2
PCB-1232 (AROCLOR 1232)	PEST/PCB	147 ft from DP	96575206SD	96-SD6	----	8080	09/25/1996	Sediment	0.08	U	0.08	0.1
PCB-1232 (AROCLOR 1232)	PEST/PCB	165 ft from DP	96575208SD	96-SD8	----	8080	09/25/1996	Sediment	0.08	U	0.08	0.1
PCB-1232 (AROCLOR 1232)	PEST/PCB	171 ft from DP (east side)	96575209SD	96-SD9	----	8080	09/25/1996	Sediment	0.08	U	0.08	0.1
PCB-1232 (AROCLOR 1232)	PEST/PCB	171 ft from DP (west side)	96575207SD	96-SD7	----	8080	09/25/1996	Sediment	0.2	U	0.2	0.2
PCB-1232 (AROCLOR 1232)	PEST/PCB	40 ft from DP	96575202SD	96-SD2	----	8080	09/25/1996	Sediment	0.2	U	0.2	0.2
PCB-1232 (AROCLOR 1232)	PEST/PCB	79 ft from DP	96575203SD-AVG	96-SD3	----	8080	09/25/1996	Sediment	0.2	U	0.2	0.2
PCB-1232 (AROCLOR 1232)	PEST/PCB	Discharge pipe (DP)	96575201SD	96-SD1	----	8080	09/25/1996	Sediment	0.08	U	0.08	0.1
PCB-1232 (AROCLOR 1232)	PEST/PCB	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8080	09/26/1996	Sediment	0.2	U	0.2	0.2
PCB-1232 (AROCLOR 1232)	PEST/PCB	Downstream end of 35-752 pond	975752007SD-AVG	96-SD007	0	SW8081	10/21/1997	Sediment	0.08	U	0.08	0.2
PCB-1232 (AROCLOR 1232)	PEST/PCB	Drum Accumulation Area	94575210SL	SS 8	2'	8080	10/06/1994	Soil	0.1	U		0.1
PCB-1232 (AROCLOR 1232)	PEST/PCB	Drum Accumulation Area	94575211SL	SS 7	2'	8080	10/10/1994	Soil	0.1	U		0.1
PCB-1232 (AROCLOR 1232)	PEST/PCB	Drum Accumulation Area	94575212SL	SS 6	2'	8080	10/10/1994	Soil	0.1	U		0.1
PCB-1232 (AROCLOR 1232)	PEST/PCB	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8080	10/10/1994	Soil	0.1	U		0.1
PCB-1232 (AROCLOR 1232)	PEST/PCB	Drum Accumulation Area	94575215SL	SS 4	2'	8080	10/10/1994	Soil	0.1	U		0.1
PCB-1232 (AROCLOR 1232)	PEST/PCB	Drum Accumulation Area	94575216SL	SS 3	2'	8080	10/10/1994	Soil	0.1	U		0.1
PCB-1232 (AROCLOR 1232)	PEST/PCB	Drum Accumulation Area	94575217SL	SS 2	2'	8080	10/10/1994	Soil	0.1	U		0.1
PCB-1232 (AROCLOR 1232)	PEST/PCB	Drum Accumulation Area	94575218SL	SS 1	2'	8080	10/10/1994	Soil	0.1	U		0.1
PCB-1232 (AROCLOR 1232)	PEST/PCB	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8080	11/03/1994	Soil	0.1	U		0.1
PCB-1232 (AROCLOR 1232)	PEST/PCB	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8080	11/03/1994	Soil	0.1	U		0.1
PCB-1232 (AROCLOR 1232)	PEST/PCB	Cooling Pond	94575229SL	AP-3502	4'-6'	8080	11/07/1994	Soil	0.1	U		0.1
PCB-1232 (AROCLOR 1232)	PEST/PCB	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8080	11/09/1994	Soil	0.1	U		0.1
PCB-1232 (AROCLOR 1232)	PEST/PCB	Cooling Pond	94575240SL	AP-3501	5'-7'	8080	11/11/1994	Soil	0.1	U		0.1
PCB-1232 (AROCLOR 1232)	PEST/PCB	965752BH01	96575225SL	AP-3785	5	8080	10/02/1996	Soil	0.08	U	0.08	0.08
PCB-1232 (AROCLOR 1232)	PEST/PCB	965752BH03	96575231SL-AVG	AP-3787	2.5	8080	10/03/1996	Soil	0.08	U	0.08	0.08
PCB-1232 (AROCLOR 1232)	PEST/PCB	965752BH03	96575233SL	AP-3787	5	8080	10/03/1996	Soil	0.08	U	0.08	0.08
PCB-1232 (AROCLOR 1232)	PEST/PCB	965752BH04	96575238SL	AP-3788	2.5	8080	10/03/1996	Soil	0.08	U	0.08	0.08
PCB-1232 (AROCLOR 1232)	PEST/PCB	965752BH04	96575239SL-AVG	AP-3788	5	8080	10/03/1996	Soil	0.08	U	0.08	0.08
PCB-1232 (AROCLOR 1232)	PEST/PCB	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8080	10/06/1994	Soil	0.1	U		0.1
PCB-1232 (AROCLOR 1232)	PEST/PCB	Drum Accumulation Area	94575203SL	SS 2	6"	8080	10/06/1994	Soil	0.1	U		0.1
PCB-1232 (AROCLOR 1232)	PEST/PCB	Drum Accumulation Area	94575204SL	SS 3	6"	8080	10/06/1994	Soil	0.1	U		0.1
PCB-1232 (AROCLOR 1232)	PEST/PCB	Drum Accumulation Area	94575205SL	SS 4	6"	8080	10/06/1994	Soil	0.1	U		0.1
PCB-1232 (AROCLOR 1232)	PEST/PCB	Drum Accumulation Area	94575206SL	SS 5	6"	8080	10/06/1994	Soil	0.1	U		0.1
PCB-1232 (AROCLOR 1232)	PEST/PCB	Drum Accumulation Area	94575207SL	SS 6	6"	8080	10/06/1994	Soil	0.1	U		0.1

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
PCB-1232 (AROCLOR 1232)	PEST/PCB	Drum Accumulation Area	94575208SL	SS 7	6"	8080	10/06/1994	Soil	0.1	U		0.1
PCB-1232 (AROCLOR 1232)	PEST/PCB	Drum Accumulation Area	94575209SL	SS 8	6"	8080	10/06/1994	Soil	0.1	U		0.1
PCB-1232 (AROCLOR 1232)	PEST/PCB	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8080	11/03/1994	Soil	0.1	U		0.1
PCB-1232 (AROCLOR 1232)	PEST/PCB	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8080	11/03/1994	Soil	0.1	U		0.1
PCB-1232 (AROCLOR 1232)	PEST/PCB	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8080	11/07/1994	Soil	0.1	U		0.1
PCB-1232 (AROCLOR 1232)	PEST/PCB	Cooling Pond	94575231SL	AP-3503	0-6'	8080	11/08/1994	Soil	0.1	U		0.1
PCB-1232 (AROCLOR 1232)	PEST/PCB	Cooling Pond	94575235SL	AP-3504	0-2'	8080	11/09/1994	Soil	0.1	U		0.1
PCB-1232 (AROCLOR 1232)	PEST/PCB	965752BH03	96575230SL	AP-3787	0	8080	10/03/1996	Soil	0.08	U	0.08	0.1
PCB-1232 (AROCLOR 1232)	PEST/PCB	965752BH04	96575236SL-AVG	AP-3788	0	8080	10/03/1996	Soil	0.08	U	0.08	0.1
PCB-1242 (AROCLOR 1242)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752130SL	P1	0 - 0.5	SW8082	07/30/2002	Soil	0.00378	U	0.00378	0.0141
PCB-1242 (AROCLOR 1242)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752132SL	P1	1.5 - 2	SW8082	07/30/2002	Soil	0.00378	U	0.00378	0.0141
PCB-1242 (AROCLOR 1242)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752134SL	P2	1 - 1.5	SW8082	07/30/2002	Soil	0.00378	U	0.00378	0.0141
PCB-1242 (AROCLOR 1242)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752143SL	P5	1 - 1.5	SW8082	07/30/2002	Soil	0.00355	U	0.00355	0.0133
PCB-1242 (AROCLOR 1242)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752147SL	P6	1.5 - 2	SW8082	07/30/2002	Soil	0.00359	U	0.00359	0.0134
PCB-1242 (AROCLOR 1242)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752148SL	P7	0 - 0.5	SW8082	07/30/2002	Soil	0.0039	U	0.0039	0.0146
PCB-1242 (AROCLOR 1242)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752152SL	P8	1 - 1.5	SW8082	07/30/2002	Soil	0.00392	U	0.00392	0.0146
PCB-1242 (AROCLOR 1242)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752156SL	P9	1.5 - 2	SW8082	07/30/2002	Soil	0.00389	U	0.00389	0.0145
PCB-1242 (AROCLOR 1242)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752197SL	P22	1.5 - 2	SW8082	07/30/2002	Soil	0.0032	U	0.0032	0.0119
PCB-1242 (AROCLOR 1242)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752198SL	P23	0 - 0.5	SW8082	07/30/2002	Soil	0.00346	U	0.00346	0.0129
PCB-1242 (AROCLOR 1242)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752202SL	P24	1 - 1.5	SW8082	07/30/2002	Soil	0.00394	U	0.00394	0.0147
PCB-1242 (AROCLOR 1242)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752206SL	P25	1.5 - 2	SW8082	07/30/2002	Soil	0.0039	U	0.0039	0.0146
PCB-1242 (AROCLOR 1242)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752211SL	P27	1 - 1.5	SW8082	07/30/2002	Soil	0.0035	U	0.0035	0.0131
PCB-1242 (AROCLOR 1242)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752215SL	P28	1.5 - 2	SW8082	07/30/2002	Soil	0.0035	U	0.0035	0.013
PCB-1242 (AROCLOR 1242)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752220SL	P30	1 - 1.5	SW8082	07/30/2002	Soil	0.00354	U	0.00354	0.0132
PCB-1242 (AROCLOR 1242)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752221SL	P30	1 - 1.5	SW8082	07/30/2002	Soil	0.00362	U	0.00362	0.0135
PCB-1242 (AROCLOR 1242)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752157SL-AVG	P10	0 - 0.5	SW8082	07/30/2002	Soil	0.00364	U		
PCB-1242 (AROCLOR 1242)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752207SL	P26	0 - 0.5	SW8082	07/30/2002	Soil	0.00346	U		
PCB-1242 (AROCLOR 1242)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752216SL-AVG	P29	0 - 0.5	SW8082	07/30/2002	Soil	0.00363	U		
PCB-1242 (AROCLOR 1242)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75264SL	S31	1 - 1.5	SW8082	07/26/2002	Soil	0.0035	U	0.0035	0.013
PCB-1242 (AROCLOR 1242)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75265SL	S32	0 - 0.5	SW8082	07/26/2002	Soil	0.0037	U	0.0037	0.014
PCB-1242 (AROCLOR 1242)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75270SL	S34	1 - 1.5	SW8082	07/26/2002	Soil	0.0045	U	0.0045	0.017
PCB-1242 (AROCLOR 1242)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75271SL	S35	0 - 0.5	SW8082	07/26/2002	Soil	0.004	U	0.004	0.015
PCB-1242 (AROCLOR 1242)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75273SL	S36	0 - 0.5	SW8082	07/26/2002	Soil	0.0029	U	0.0029	0.011
PCB-1242 (AROCLOR 1242)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75275SL	S37	0 - 0.5	SW8082	07/26/2002	Soil	0.003	U	0.003	0.011
PCB-1242 (AROCLOR 1242)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75276SL	S37	1 - 1.5	SW8082	07/26/2002	Soil	0.0035	U	0.0035	0.013
PCB-1242 (AROCLOR 1242)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75277SL	S38	0 - 0.5	SW8082	07/26/2002	Soil	0.0036	U	0.0036	0.013
PCB-1242 (AROCLOR 1242)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75279SL	S39	0 - 0.5	SW8082	07/26/2002	Soil	0.0035	U	0.0035	0.013
PCB-1242 (AROCLOR 1242)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75281SL	S40	0 - 0.5	SW8082	07/26/2002	Soil	0.0037	U	0.0037	0.014
PCB-1242 (AROCLOR 1242)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75283SL-AVG	S41	0 - 0.5	SW8082	07/26/2002	Soil	0.0037	U		
PCB-1242 (AROCLOR 1242)	PEST/PCB	Bldg. 35-752, Transformer Mounting Area	02B75238SL	T13	0 - 0.5	SW8082	08/01/2002	Soil	0.00376	U	0.00376	0.014
PCB-1242 (AROCLOR 1242)	PEST/PCB	Bldg. 35-752, Transformer Mounting Area	02B75244SL	T15	0 - 0.5	SW8082	08/01/2002	Soil	0.00375	U	0.00375	0.014
PCB-1242 (AROCLOR 1242)	PEST/PCB	Bldg. 35-752, Transformer Mounting Area	02B75247SL	T16	0 - 0.5	SW8082	08/01/2002	Soil	0.00387	U	0.00387	0.0144
PCB-1242 (AROCLOR 1242)	PEST/PCB	Bldg. 35-752, Transformer Mounting Area	02B75250SL	T17	0 - 0.5	SW8082	08/01/2002	Soil	0.00365	U	0.00365	0.0136
PCB-1242 (AROCLOR 1242)	PEST/PCB	Bldg. 35-752, Transformer Mounting Area	02B75256SL	T19	0 - 0.5	SW8082	08/01/2002	Soil	0.00357	U	0.00357	0.0133
PCB-1242 (AROCLOR 1242)	PEST/PCB	Bldg. 35-752, Transformer Mounting Area	02B752246SL	T15	0.5 - 1	SW8082	10/15/2002	Soil	0.0037	U	0.0037	0.014
PCB-1242 (AROCLOR 1242)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B75201SL	T1	0 - 0.5	SW8082	08/01/2002	Soil	0.00432	U	0.00432	0.0161
PCB-1242 (AROCLOR 1242)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B75204SL	T2	0 - 0.5	SW8082	08/01/2002	Soil	0.00399	U	0.00399	0.0149
PCB-1242 (AROCLOR 1242)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B75207SL	T3	0 - 0.5	SW8082	08/01/2002	Soil	0.00365	U	0.00365	0.0136
PCB-1242 (AROCLOR 1242)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B75210SL	T4	0 - 0.5	SW8082	08/01/2002	Soil	0.0216	U	0.0216	0.0807
PCB-1242 (AROCLOR 1242)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B75213SL	T5	0 - 0.5	SW8082	08/01/2002	Soil	0.00371	U	0.00371	0.0138
PCB-1242 (AROCLOR 1242)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B75216SL	T6	0 - 0.5	SW8082	08/01/2002	Soil	0.0036	U	0.0036	0.0134
PCB-1242 (AROCLOR 1242)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B75219SL	T7	0 - 0.5	SW8082	08/01/2002	Soil	0.00355	U	0.00355	0.0132
PCB-1242 (AROCLOR 1242)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B75222SL	T8	0 - 0.5	SW8082	08/01/2002	Soil	0.00347	U	0.00347	0.013
PCB-1242 (AROCLOR 1242)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B75232SL	T11	0 - 0.5	SW8082	08/01/2002	Soil	0.00378	U	0.00378	0.0141
PCB-1242 (AROCLOR 1242)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B75228SL-AVG	T10	0 - 0.5	SW8082	08/01/2002	Soil	0.00409	U		
PCB-1242 (AROCLOR 1242)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B752205SL	T2	0.5 - 1	SW8082	10/15/2002	Soil	0.0037	U	0.0037	0.014
PCB-1242 (AROCLOR 1242)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B752214SL	T5	0.5 - 1	SW8082	10/15/2002	Soil	0.017	U	0.017	0.062
PCB-1242 (AROCLOR 1242)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B752218SL	T6	0.5 - 1	SW8082	10/15/2002	Soil	0.015	U	0.015	0.056
PCB-1242 (AROCLOR 1242)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B752233	T11	0.5 - 1	SW8082	10/15/2002	Soil	0.0045	U	0.0045	0.017
PCB-1242 (AROCLOR 1242)	PEST/PCB	fiber cable route	LCI 1-1	LCI1	1-2'	8082	05/10/2001	Soil	0.0313	U		0.0313
PCB-1242 (AROCLOR 1242)	PEST/PCB	fiber cable route	LCI 2-1	LCI2	1-2'	8082	05/10/2001	Soil	0.0323	U		0.0323
PCB-1242 (AROCLOR 1242)	PEST/PCB	fiber cable route	LCI 2-2	LCI2	2-3'	8082	05/10/2001	Soil	0.0313	U		0.0313

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
PCB-1242 (AROCLOR 1242)	PEST/PCB	fiber cable route	LCI 2-3-AVG	LCI2	3-4'	8082	05/10/2001	Soil	0.0325	U		0.0325
PCB-1242 (AROCLOR 1242)	PEST/PCB	fiber cable route	LCI 3-1	LCI3	1-2'	8082	05/10/2001	Soil	0.031	U		0.031
PCB-1242 (AROCLOR 1242)	PEST/PCB	fiber cable route	LCI 4-1	LCI4	1-2'	8082	05/10/2001	Soil	0.0326	U		0.0326
PCB-1242 (AROCLOR 1242)	PEST/PCB	fiber cable route	LCI 5-0	LCI5	0-1'	8082	05/10/2001	Soil	0.0346	U		0.0346
PCB-1242 (AROCLOR 1242)	PEST/PCB	fiber cable route	LCI 5-2	LCI5	2-3'	8082	05/10/2001	Soil	0.0321	U		0.0321
PCB-1242 (AROCLOR 1242)	PEST/PCB	fiber cable route	LCI 8-1	LCI8	0.5-1'	8082	05/10/2001	Soil	0.0329	U		0.0329
PCB-1242 (AROCLOR 1242)	PEST/PCB	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8080	12/08/1994	Sediment	0.1	U		0.1
PCB-1242 (AROCLOR 1242)	PEST/PCB	Cooling Pond	94575242SD	SD-B	0-6"	8080	12/08/1994	Sediment	0.1	U		0.1
PCB-1242 (AROCLOR 1242)	PEST/PCB	Cooling Pond	94575243SD	SD-C	0-6"	8080	12/08/1994	Sediment	0.1	U		0.1
PCB-1242 (AROCLOR 1242)	PEST/PCB	Cooling Pond	94575244SD	SD-D	0-6"	8080	12/08/1994	Sediment	0.1	U		0.1
PCB-1242 (AROCLOR 1242)	PEST/PCB	Cooling Pond	94575245SD	SD-E	0-6"	8080	12/08/1994	Sediment	0.1	U		0.1
PCB-1242 (AROCLOR 1242)	PEST/PCB	Cooling Pond	94575246SD	SD-F	0-6"	8080	12/08/1994	Sediment	0.1	U		0.1
PCB-1242 (AROCLOR 1242)	PEST/PCB	Cooling Pond	94575247SD	SD-G	0-6"	8080	12/08/1994	Sediment	0.1	U		0.1
PCB-1242 (AROCLOR 1242)	PEST/PCB	Cooling Pond	94575248SD	SD-H	0-6"	8080	12/08/1994	Sediment	0.1	U		0.1
PCB-1242 (AROCLOR 1242)	PEST/PCB	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8080	09/25/1996	Sediment	0.06	U	0.06	0.2
PCB-1242 (AROCLOR 1242)	PEST/PCB	119 ft from DP	96575205SD	96-SD5	----	8080	09/25/1996	Sediment	0.06	U	0.06	0.2
PCB-1242 (AROCLOR 1242)	PEST/PCB	147 ft from DP	96575206SD	96-SD6	----	8080	09/25/1996	Sediment	0.03	U	0.03	0.1
PCB-1242 (AROCLOR 1242)	PEST/PCB	165 ft from DP	96575208SD	96-SD8	----	8080	09/25/1996	Sediment	0.03	U	0.03	0.1
PCB-1242 (AROCLOR 1242)	PEST/PCB	171 ft from DP (east side)	96575209SD	96-SD9	----	8080	09/25/1996	Sediment	0.03	U	0.03	0.1
PCB-1242 (AROCLOR 1242)	PEST/PCB	171 ft from DP (west side)	96575207SD	96-SD7	----	8080	09/25/1996	Sediment	0.06	U	0.06	0.2
PCB-1242 (AROCLOR 1242)	PEST/PCB	40 ft from DP	96575202SD	96-SD2	----	8080	09/25/1996	Sediment	0.06	U	0.06	0.2
PCB-1242 (AROCLOR 1242)	PEST/PCB	79 ft from DP	96575203SD-AVG	96-SD3	----	8080	09/25/1996	Sediment	0.06	U	0.06	0.2
PCB-1242 (AROCLOR 1242)	PEST/PCB	Discharge pipe (DP)	96575201SD	96-SD1	----	8080	09/25/1996	Sediment	0.03	U	0.03	0.1
PCB-1242 (AROCLOR 1242)	PEST/PCB	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8080	09/26/1996	Sediment	0.06	U	0.06	0.2
PCB-1242 (AROCLOR 1242)	PEST/PCB	Downstream end of 35-752 pond	975752007SD-AVG	96-SD007	0	SW8081	10/21/1997	Sediment	0.03	U	0.03	0.2
PCB-1242 (AROCLOR 1242)	PEST/PCB	Drum Accumulation Area	94575210SL	SS 8	2'	8080	10/06/1994	Soil	0.1	U		0.1
PCB-1242 (AROCLOR 1242)	PEST/PCB	Drum Accumulation Area	94575211SL	SS 7	2'	8080	10/10/1994	Soil	0.1	U		0.1
PCB-1242 (AROCLOR 1242)	PEST/PCB	Drum Accumulation Area	94575212SL	SS 6	2'	8080	10/10/1994	Soil	0.1	U		0.1
PCB-1242 (AROCLOR 1242)	PEST/PCB	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8080	10/10/1994	Soil	0.1	U		0.1
PCB-1242 (AROCLOR 1242)	PEST/PCB	Drum Accumulation Area	94575215SL	SS 4	2'	8080	10/10/1994	Soil	0.1	U		0.1
PCB-1242 (AROCLOR 1242)	PEST/PCB	Drum Accumulation Area	94575216SL	SS 3	2'	8080	10/10/1994	Soil	0.1	U		0.1
PCB-1242 (AROCLOR 1242)	PEST/PCB	Drum Accumulation Area	94575217SL	SS 2	2'	8080	10/10/1994	Soil	0.1	U		0.1
PCB-1242 (AROCLOR 1242)	PEST/PCB	Drum Accumulation Area	94575218SL	SS 1	2'	8080	10/10/1994	Soil	0.1	U		0.1
PCB-1242 (AROCLOR 1242)	PEST/PCB	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8080	11/03/1994	Soil	0.1	U		0.1
PCB-1242 (AROCLOR 1242)	PEST/PCB	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8080	11/03/1994	Soil	0.1	U		0.1
PCB-1242 (AROCLOR 1242)	PEST/PCB	Cooling Pond	94575229SL	AP-3502	4'-6'	8080	11/07/1994	Soil	0.1	U		0.1
PCB-1242 (AROCLOR 1242)	PEST/PCB	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8080	11/09/1994	Soil	0.1	U		0.1
PCB-1242 (AROCLOR 1242)	PEST/PCB	Cooling Pond	94575240SL	AP-3501	5'-7'	8080	11/11/1994	Soil	0.1	U		0.1
PCB-1242 (AROCLOR 1242)	PEST/PCB	965752BH01	96575225SL	AP-3785	5	8080	10/02/1996	Soil	0.03	U	0.03	0.03
PCB-1242 (AROCLOR 1242)	PEST/PCB	965752BH03	96575231SL-AVG	AP-3787	2.5	8080	10/03/1996	Soil	0.03	U	0.03	0.03
PCB-1242 (AROCLOR 1242)	PEST/PCB	965752BH03	96575233SL	AP-3787	5	8080	10/03/1996	Soil	0.03	U	0.03	0.03
PCB-1242 (AROCLOR 1242)	PEST/PCB	965752BH04	96575238SL	AP-3788	2.5	8080	10/03/1996	Soil	0.03	U	0.03	0.03
PCB-1242 (AROCLOR 1242)	PEST/PCB	965752BH04	96575239SL-AVG	AP-3788	5	8080	10/03/1996	Soil	0.03	U	0.03	0.03
PCB-1242 (AROCLOR 1242)	PEST/PCB	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8080	10/06/1994	Soil	0.1	U		0.1
PCB-1242 (AROCLOR 1242)	PEST/PCB	Drum Accumulation Area	94575203SL	SS 2	6"	8080	10/06/1994	Soil	0.1	U		0.1
PCB-1242 (AROCLOR 1242)	PEST/PCB	Drum Accumulation Area	94575204SL	SS 3	6"	8080	10/06/1994	Soil	0.1	U		0.1
PCB-1242 (AROCLOR 1242)	PEST/PCB	Drum Accumulation Area	94575205SL	SS 4	6"	8080	10/06/1994	Soil	0.1	U		0.1
PCB-1242 (AROCLOR 1242)	PEST/PCB	Drum Accumulation Area	94575206SL	SS 5	6"	8080	10/06/1994	Soil	0.1	U		0.1
PCB-1242 (AROCLOR 1242)	PEST/PCB	Drum Accumulation Area	94575207SL	SS 6	6"	8080	10/06/1994	Soil	0.1	U		0.1
PCB-1242 (AROCLOR 1242)	PEST/PCB	Drum Accumulation Area	94575208SL	SS 7	6"	8080	10/06/1994	Soil	0.1	U		0.1
PCB-1242 (AROCLOR 1242)	PEST/PCB	Drum Accumulation Area	94575209SL	SS 8	6"	8080	10/06/1994	Soil	0.1	U		0.1
PCB-1242 (AROCLOR 1242)	PEST/PCB	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8080	11/03/1994	Soil	0.1	U		0.1
PCB-1242 (AROCLOR 1242)	PEST/PCB	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8080	11/03/1994	Soil	0.1	U		0.1
PCB-1242 (AROCLOR 1242)	PEST/PCB	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8080	11/07/1994	Soil	0.1	U		0.1
PCB-1242 (AROCLOR 1242)	PEST/PCB	Cooling Pond	94575231SL	AP-3503	0-6'	8080	11/08/1994	Soil	0.1	U		0.1
PCB-1242 (AROCLOR 1242)	PEST/PCB	Cooling Pond	94575235SL	AP-3504	0-2'	8080	11/09/1994	Soil	0.1	U		0.1
PCB-1242 (AROCLOR 1242)	PEST/PCB	965752BH03	96575230SL	AP-3787	0	8080	10/03/1996	Soil	0.03	U	0.03	0.1
PCB-1242 (AROCLOR 1242)	PEST/PCB	965752BH04	96575236SL-AVG	AP-3788	0	8080	10/03/1996	Soil	0.03	U	0.03	0.1
PCB-1248 (AROCLOR 1248)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752130SL	P1	0 - 0.5	SW8082	07/30/2002	Soil	0.00378	U	0.00378	0.0141
PCB-1248 (AROCLOR 1248)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752132SL	P1	1.5 - 2	SW8082	07/30/2002	Soil	0.00378	U	0.00378	0.0141
PCB-1248 (AROCLOR 1248)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752134SL	P2	1 - 1.5	SW8082	07/30/2002	Soil	0.00378	U	0.00378	0.0141
PCB-1248 (AROCLOR 1248)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752143SL	P5	1 - 1.5	SW8082	07/30/2002	Soil	0.00355	U	0.00355	0.0133

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
PCB-1248 (AROCLOR 1248)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752147SL	P6	1.5 - 2	SW8082	07/30/2002	Soil	0.00359	U	0.00359	0.0134
PCB-1248 (AROCLOR 1248)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752148SL	P7	0 - 0.5	SW8082	07/30/2002	Soil	0.0039	U	0.0039	0.0146
PCB-1248 (AROCLOR 1248)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752152SL	P8	1 - 1.5	SW8082	07/30/2002	Soil	0.00392	U	0.00392	0.0146
PCB-1248 (AROCLOR 1248)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752156SL	P9	1.5 - 2	SW8082	07/30/2002	Soil	0.00389	U	0.00389	0.0145
PCB-1248 (AROCLOR 1248)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752197SL	P22	1.5 - 2	SW8082	07/30/2002	Soil	0.0032	U	0.0032	0.0119
PCB-1248 (AROCLOR 1248)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752198SL	P23	0 - 0.5	SW8082	07/30/2002	Soil	0.00346	U	0.00346	0.0129
PCB-1248 (AROCLOR 1248)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752202SL	P24	1 - 1.5	SW8082	07/30/2002	Soil	0.00394	U	0.00394	0.0147
PCB-1248 (AROCLOR 1248)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752206SL	P25	1.5 - 2	SW8082	07/30/2002	Soil	0.0039	U	0.0039	0.0146
PCB-1248 (AROCLOR 1248)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752211SL	P27	1 - 1.5	SW8082	07/30/2002	Soil	0.0035	U	0.0035	0.0131
PCB-1248 (AROCLOR 1248)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752215SL	P28	1.5 - 2	SW8082	07/30/2002	Soil	0.0035	U	0.0035	0.013
PCB-1248 (AROCLOR 1248)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752220SL	P30	1 - 1.5	SW8082	07/30/2002	Soil	0.00354	U	0.00354	0.0132
PCB-1248 (AROCLOR 1248)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752221SL	P30	1 - 1.5	SW8082	07/30/2002	Soil	0.00362	U	0.00362	0.0135
PCB-1248 (AROCLOR 1248)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752157SL-AVG	P10	0 - 0.5	SW8082	07/30/2002	Soil	0.00364	U		
PCB-1248 (AROCLOR 1248)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752207SL	P26	0 - 0.5	SW8082	07/30/2002	Soil	0.00346	U		
PCB-1248 (AROCLOR 1248)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752216SL-AVG	P29	0 - 0.5	SW8082	07/30/2002	Soil	0.00363	U		
PCB-1248 (AROCLOR 1248)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75264SL	S31	1 - 1.5	SW8082	07/26/2002	Soil	0.0035	U	0.0035	0.013
PCB-1248 (AROCLOR 1248)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75265SL	S32	0 - 0.5	SW8082	07/26/2002	Soil	0.0037	U	0.0037	0.014
PCB-1248 (AROCLOR 1248)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75270SL	S34	1 - 1.5	SW8082	07/26/2002	Soil	0.0045	U	0.0045	0.017
PCB-1248 (AROCLOR 1248)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75271SL	S35	0 - 0.5	SW8082	07/26/2002	Soil	0.004	U	0.004	0.015
PCB-1248 (AROCLOR 1248)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75273SL	S36	0 - 0.5	SW8082	07/26/2002	Soil	0.0029	U	0.0029	0.011
PCB-1248 (AROCLOR 1248)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75275SL	S37	0 - 0.5	SW8082	07/26/2002	Soil	0.003	U	0.003	0.011
PCB-1248 (AROCLOR 1248)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75276SL	S37	1 - 1.5	SW8082	07/26/2002	Soil	0.0035	U	0.0035	0.013
PCB-1248 (AROCLOR 1248)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75277SL	S38	0 - 0.5	SW8082	07/26/2002	Soil	0.0036	U	0.0036	0.013
PCB-1248 (AROCLOR 1248)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75279SL	S39	0 - 0.5	SW8082	07/26/2002	Soil	0.0035	U	0.0035	0.013
PCB-1248 (AROCLOR 1248)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75281SL	S40	0 - 0.5	SW8082	07/26/2002	Soil	0.0037	U	0.0037	0.014
PCB-1248 (AROCLOR 1248)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75283SL-AVG	S41	0 - 0.5	SW8082	07/26/2002	Soil	0.0037	U		
PCB-1248 (AROCLOR 1248)	PEST/PCB	Bldg. 35-752, Transformer Mounting Area	02B75238SL	T13	0 - 0.5	SW8082	08/01/2002	Soil	0.00376	U	0.00376	0.014
PCB-1248 (AROCLOR 1248)	PEST/PCB	Bldg. 35-752, Transformer Mounting Area	02B75244SL	T15	0 - 0.5	SW8082	08/01/2002	Soil	0.00375	U	0.00375	0.014
PCB-1248 (AROCLOR 1248)	PEST/PCB	Bldg. 35-752, Transformer Mounting Area	02B75247SL	T16	0 - 0.5	SW8082	08/01/2002	Soil	0.00387	U	0.00387	0.0144
PCB-1248 (AROCLOR 1248)	PEST/PCB	Bldg. 35-752, Transformer Mounting Area	02B75250SL	T17	0 - 0.5	SW8082	08/01/2002	Soil	0.00365	U	0.00365	0.0136
PCB-1248 (AROCLOR 1248)	PEST/PCB	Bldg. 35-752, Transformer Mounting Area	02B75256SL	T19	0 - 0.5	SW8082	08/01/2002	Soil	0.00357	U	0.00357	0.0133
PCB-1248 (AROCLOR 1248)	PEST/PCB	Bldg. 35-752, Transformer Mounting Area	02B752246SL	T15	0.5 - 1	SW8082	10/15/2002	Soil	0.0037	U	0.0037	0.014
PCB-1248 (AROCLOR 1248)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B75201SL	T1	0 - 0.5	SW8082	08/01/2002	Soil	0.00432	U	0.00432	0.0161
PCB-1248 (AROCLOR 1248)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B75204SL	T2	0 - 0.5	SW8082	08/01/2002	Soil	0.00399	U	0.00399	0.0149
PCB-1248 (AROCLOR 1248)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B75207SL	T3	0 - 0.5	SW8082	08/01/2002	Soil	0.00365	U	0.00365	0.0136
PCB-1248 (AROCLOR 1248)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B75210SL	T4	0 - 0.5	SW8082	08/01/2002	Soil	0.0216	U	0.0216	0.0807
PCB-1248 (AROCLOR 1248)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B75213SL	T5	0 - 0.5	SW8082	08/01/2002	Soil	0.00371	U	0.00371	0.0138
PCB-1248 (AROCLOR 1248)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B75216SL	T6	0 - 0.5	SW8082	08/01/2002	Soil	0.0036	U	0.0036	0.0134
PCB-1248 (AROCLOR 1248)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B75219SL	T7	0 - 0.5	SW8082	08/01/2002	Soil	0.00355	U	0.00355	0.0132
PCB-1248 (AROCLOR 1248)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B75222SL	T8	0 - 0.5	SW8082	08/01/2002	Soil	0.00347	U	0.00347	0.013
PCB-1248 (AROCLOR 1248)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B75232SL	T11	0 - 0.5	SW8082	08/01/2002	Soil	0.00378	U	0.00378	0.0141
PCB-1248 (AROCLOR 1248)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B75228SL-AVG	T10	0 - 0.5	SW8082	08/01/2002	Soil	0.00409	U		
PCB-1248 (AROCLOR 1248)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B752205SL	T2	0.5 - 1	SW8082	10/15/2002	Soil	0.0037	U	0.0037	0.014
PCB-1248 (AROCLOR 1248)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B752214SL	T5	0.5 - 1	SW8082	10/15/2002	Soil	0.017	U	0.017	0.062
PCB-1248 (AROCLOR 1248)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B752218SL	T6	0.5 - 1	SW8082	10/15/2002	Soil	0.015	U	0.015	0.056
PCB-1248 (AROCLOR 1248)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B752233	T11	0.5 - 1	SW8082	10/15/2002	Soil	0.0045	U	0.0045	0.017
PCB-1248 (AROCLOR 1248)	PEST/PCB	fiber cable route	LCI 1-1	LCI1	1-2'	8082	05/10/2001	Soil	0.0313	U		0.0313
PCB-1248 (AROCLOR 1248)	PEST/PCB	fiber cable route	LCI 2-1	LCI2	1-2'	8082	05/10/2001	Soil	0.0323	U		0.0323
PCB-1248 (AROCLOR 1248)	PEST/PCB	fiber cable route	LCI 2-2	LCI2	2-3'	8082	05/10/2001	Soil	0.0313	U		0.0313
PCB-1248 (AROCLOR 1248)	PEST/PCB	fiber cable route	LCI 2-3-AVG	LCI2	3-4'	8082	05/10/2001	Soil	0.0325	U		0.0325
PCB-1248 (AROCLOR 1248)	PEST/PCB	fiber cable route	LCI 3-1	LCI3	1-2'	8082	05/10/2001	Soil	0.031	U		0.031
PCB-1248 (AROCLOR 1248)	PEST/PCB	fiber cable route	LCI 4-1	LCI4	1-2'	8082	05/10/2001	Soil	0.0326	U		0.0326
PCB-1248 (AROCLOR 1248)	PEST/PCB	fiber cable route	LCI 5-0	LCI5	0-1'	8082	05/10/2001	Soil	0.0346	U		0.0346
PCB-1248 (AROCLOR 1248)	PEST/PCB	fiber cable route	LCI 5-2	LCI5	2-3'	8082	05/10/2001	Soil	0.0321	U		0.0321
PCB-1248 (AROCLOR 1248)	PEST/PCB	fiber cable route	LCI 8-1	LCI8	0.5-1'	8082	05/10/2001	Soil	0.0329	U		0.0329
PCB-1248 (AROCLOR 1248)	PEST/PCB	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8080	12/08/1994	Sediment	0.1	U		0.1
PCB-1248 (AROCLOR 1248)	PEST/PCB	Cooling Pond	94575242SD	SD-B	0-6"	8080	12/08/1994	Sediment	0.1	U		0.1
PCB-1248 (AROCLOR 1248)	PEST/PCB	Cooling Pond	94575243SD	SD-C	0-6"	8080	12/08/1994	Sediment	0.1	U		0.1
PCB-1248 (AROCLOR 1248)	PEST/PCB	Cooling Pond	94575244SD	SD-D	0-6"	8080	12/08/1994	Sediment	0.1	U		0.1
PCB-1248 (AROCLOR 1248)	PEST/PCB	Cooling Pond	94575245SD	SD-E	0-6"	8080	12/08/1994	Sediment	0.1	U		0.1
PCB-1248 (AROCLOR 1248)	PEST/PCB	Cooling Pond	94575246SD	SD-F	0-6"	8080	12/08/1994	Sediment	0.1	U		0.1
PCB-1248 (AROCLOR 1248)	PEST/PCB	Cooling Pond	94575247SD	SD-G	0-6"	8080	12/08/1994	Sediment	0.1	U		0.1

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
PCB-1248 (AROCLOR 1248)	PEST/PCB	Cooling Pond	94575248SD	SD-H	0-6"	8080	12/08/1994	Sediment	0.1	U		0.1
PCB-1248 (AROCLOR 1248)	PEST/PCB	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8080	09/25/1996	Sediment	0.06	U	0.06	0.2
PCB-1248 (AROCLOR 1248)	PEST/PCB	119 ft from DP	96575205SD	96-SD5	----	8080	09/25/1996	Sediment	0.06	U	0.06	0.2
PCB-1248 (AROCLOR 1248)	PEST/PCB	147 ft from DP	96575206SD	96-SD6	----	8080	09/25/1996	Sediment	0.03	U	0.03	0.1
PCB-1248 (AROCLOR 1248)	PEST/PCB	165 ft from DP	96575208SD	96-SD8	----	8080	09/25/1996	Sediment	0.03	U	0.03	0.1
PCB-1248 (AROCLOR 1248)	PEST/PCB	171 ft from DP (east side)	96575209SD	96-SD9	----	8080	09/25/1996	Sediment	0.03	U	0.03	0.1
PCB-1248 (AROCLOR 1248)	PEST/PCB	171 ft from DP (west side)	96575207SD	96-SD7	----	8080	09/25/1996	Sediment	0.06	U	0.06	0.2
PCB-1248 (AROCLOR 1248)	PEST/PCB	40 ft from DP	96575202SD	96-SD2	----	8080	09/25/1996	Sediment	0.06	U	0.06	0.2
PCB-1248 (AROCLOR 1248)	PEST/PCB	79 ft from DP	96575203SD-AVG	96-SD3	----	8080	09/25/1996	Sediment	0.06	U	0.06	0.2
PCB-1248 (AROCLOR 1248)	PEST/PCB	Discharge pipe (DP)	96575201SD	96-SD1	----	8080	09/25/1996	Sediment	0.03	U	0.03	0.1
PCB-1248 (AROCLOR 1248)	PEST/PCB	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8080	09/26/1996	Sediment	0.06	U	0.06	0.2
PCB-1248 (AROCLOR 1248)	PEST/PCB	Downstream end of 35-752 pond	975752007SD-AVG	96-SD007	0	SW8081	10/21/1997	Sediment	0.03	U	0.03	0.2
PCB-1248 (AROCLOR 1248)	PEST/PCB	Drum Accumulation Area	94575210SL	SS 8	2'	8080	10/06/1994	Soil	0.1	U		0.1
PCB-1248 (AROCLOR 1248)	PEST/PCB	Drum Accumulation Area	94575211SL	SS 7	2'	8080	10/10/1994	Soil	0.1	U		0.1
PCB-1248 (AROCLOR 1248)	PEST/PCB	Drum Accumulation Area	94575212SL	SS 6	2'	8080	10/10/1994	Soil	0.1	U		0.1
PCB-1248 (AROCLOR 1248)	PEST/PCB	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8080	10/10/1994	Soil	0.1	U		0.1
PCB-1248 (AROCLOR 1248)	PEST/PCB	Drum Accumulation Area	94575215SL	SS 4	2'	8080	10/10/1994	Soil	0.1	U		0.1
PCB-1248 (AROCLOR 1248)	PEST/PCB	Drum Accumulation Area	94575216SL	SS 3	2'	8080	10/10/1994	Soil	0.1	U		0.1
PCB-1248 (AROCLOR 1248)	PEST/PCB	Drum Accumulation Area	94575217SL	SS 2	2'	8080	10/10/1994	Soil	0.1	U		0.1
PCB-1248 (AROCLOR 1248)	PEST/PCB	Drum Accumulation Area	94575218SL	SS 1	2'	8080	10/10/1994	Soil	0.1	U		0.1
PCB-1248 (AROCLOR 1248)	PEST/PCB	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8080	11/03/1994	Soil	0.1	U		0.1
PCB-1248 (AROCLOR 1248)	PEST/PCB	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8080	11/03/1994	Soil	0.1	U		0.1
PCB-1248 (AROCLOR 1248)	PEST/PCB	Cooling Pond	94575229SL	AP-3502	4'-6'	8080	11/07/1994	Soil	0.1	U		0.1
PCB-1248 (AROCLOR 1248)	PEST/PCB	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8080	11/09/1994	Soil	0.1	U		0.1
PCB-1248 (AROCLOR 1248)	PEST/PCB	Cooling Pond	94575240SL	AP-3501	5'-7'	8080	11/11/1994	Soil	0.1	U		0.1
PCB-1248 (AROCLOR 1248)	PEST/PCB	965752BH01	96575225SL	AP-3785	5	8080	10/02/1996	Soil	0.03	U	0.03	0.03
PCB-1248 (AROCLOR 1248)	PEST/PCB	965752BH03	96575231SL-AVG	AP-3787	2.5	8080	10/03/1996	Soil	0.03	U	0.03	0.03
PCB-1248 (AROCLOR 1248)	PEST/PCB	965752BH03	96575233SL	AP-3787	5	8080	10/03/1996	Soil	0.03	U	0.03	0.03
PCB-1248 (AROCLOR 1248)	PEST/PCB	965752BH04	96575238SL	AP-3788	2.5	8080	10/03/1996	Soil	0.03	U	0.03	0.03
PCB-1248 (AROCLOR 1248)	PEST/PCB	965752BH04	96575239SL-AVG	AP-3788	5	8080	10/03/1996	Soil	0.03	U	0.03	0.03
PCB-1248 (AROCLOR 1248)	PEST/PCB	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8080	10/06/1994	Soil	0.1	U		0.1
PCB-1248 (AROCLOR 1248)	PEST/PCB	Drum Accumulation Area	94575203SL	SS 2	6"	8080	10/06/1994	Soil	0.1	U		0.1
PCB-1248 (AROCLOR 1248)	PEST/PCB	Drum Accumulation Area	94575204SL	SS 3	6"	8080	10/06/1994	Soil	0.1	U		0.1
PCB-1248 (AROCLOR 1248)	PEST/PCB	Drum Accumulation Area	94575205SL	SS 4	6"	8080	10/06/1994	Soil	0.1	U		0.1
PCB-1248 (AROCLOR 1248)	PEST/PCB	Drum Accumulation Area	94575206SL	SS 5	6"	8080	10/06/1994	Soil	0.1	U		0.1
PCB-1248 (AROCLOR 1248)	PEST/PCB	Drum Accumulation Area	94575207SL	SS 6	6"	8080	10/06/1994	Soil	0.1	U		0.1
PCB-1248 (AROCLOR 1248)	PEST/PCB	Drum Accumulation Area	94575208SL	SS 7	6"	8080	10/06/1994	Soil	0.1	U		0.1
PCB-1248 (AROCLOR 1248)	PEST/PCB	Drum Accumulation Area	94575209SL	SS 8	6"	8080	10/06/1994	Soil	0.1	U		0.1
PCB-1248 (AROCLOR 1248)	PEST/PCB	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8080	11/03/1994	Soil	0.1	U		0.1
PCB-1248 (AROCLOR 1248)	PEST/PCB	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8080	11/03/1994	Soil	0.1	U		0.1
PCB-1248 (AROCLOR 1248)	PEST/PCB	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8080	11/07/1994	Soil	1.55	U		1.55
PCB-1248 (AROCLOR 1248)	PEST/PCB	Cooling Pond	94575231SL	AP-3503	0-6'	8080	11/08/1994	Soil	0.1	U		0.1
PCB-1248 (AROCLOR 1248)	PEST/PCB	Cooling Pond	94575235SL	AP-3504	0-2'	8080	11/09/1994	Soil	0.1	U		0.1
PCB-1248 (AROCLOR 1248)	PEST/PCB	965752BH03	96575230SL	AP-3787	0	8080	10/03/1996	Soil	0.03	U	0.03	0.1
PCB-1248 (AROCLOR 1248)	PEST/PCB	965752BH04	96575236SL-AVG	AP-3788	0	8080	10/03/1996	Soil	0.03	U	0.03	0.1
PCB-1254 (AROCLOR 1254)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752130SL	P1	0 - 0.5	SW8082	07/30/2002	Soil	0.00378	U	0.00378	0.0141
PCB-1254 (AROCLOR 1254)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752132SL	P1	1.5 - 2	SW8082	07/30/2002	Soil	0.00378	U	0.00378	0.0141
PCB-1254 (AROCLOR 1254)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752134SL	P2	1 - 1.5	SW8082	07/30/2002	Soil	0.00378	U	0.00378	0.0141
PCB-1254 (AROCLOR 1254)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752143SL	P5	1 - 1.5	SW8082	07/30/2002	Soil	0.00355	U	0.00355	0.0133
PCB-1254 (AROCLOR 1254)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752147SL	P6	1.5 - 2	SW8082	07/30/2002	Soil	0.00359	U	0.00359	0.0134
PCB-1254 (AROCLOR 1254)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752148SL	P7	0 - 0.5	SW8082	07/30/2002	Soil	0.0039	U	0.0039	0.0146
PCB-1254 (AROCLOR 1254)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752152SL	P8	1 - 1.5	SW8082	07/30/2002	Soil	0.00392	U	0.00392	0.0146
PCB-1254 (AROCLOR 1254)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752156SL	P9	1.5 - 2	SW8082	07/30/2002	Soil	0.00389	U	0.00389	0.0145
PCB-1254 (AROCLOR 1254)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752197SL	P22	1.5 - 2	SW8082	07/30/2002	Soil	0.0032	U	0.0032	0.0119
PCB-1254 (AROCLOR 1254)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752198SL	P23	0 - 0.5	SW8082	07/30/2002	Soil	0.00346	U	0.00346	0.0129
PCB-1254 (AROCLOR 1254)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752202SL	P24	1 - 1.5	SW8082	07/30/2002	Soil	0.00394	U	0.00394	0.0147
PCB-1254 (AROCLOR 1254)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752206SL	P25	1.5 - 2	SW8082	07/30/2002	Soil	0.0039	U	0.0039	0.0146
PCB-1254 (AROCLOR 1254)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752211SL	P27	1 - 1.5	SW8082	07/30/2002	Soil	0.0035	U	0.0035	0.0131
PCB-1254 (AROCLOR 1254)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752215SL	P28	1.5 - 2	SW8082	07/30/2002	Soil	0.0035	U	0.0035	0.013
PCB-1254 (AROCLOR 1254)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752220SL	P30	1 - 1.5	SW8082	07/30/2002	Soil	0.00354	U	0.00354	0.0132
PCB-1254 (AROCLOR 1254)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752221SL	P30	1 - 1.5	SW8082	07/30/2002	Soil	0.00362	U	0.00362	0.0135
PCB-1254 (AROCLOR 1254)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752157SL-AVG	P10	0 - 0.5	SW8082	07/30/2002	Soil	0.00364	U		

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
PCB-1254 (AROCLOR 1254)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752207SL	P26	0 - 0.5	SW8082	07/30/2002	Soil	0.00346	U		
PCB-1254 (AROCLOR 1254)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752216SL-AVG	P29	0 - 0.5	SW8082	07/30/2002	Soil	0.00363	U		
PCB-1254 (AROCLOR 1254)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75264SL	S31	1 - 1.5	SW8082	07/26/2002	Soil	0.0035	U	0.0035	0.013
PCB-1254 (AROCLOR 1254)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75265SL	S32	0 - 0.5	SW8082	07/26/2002	Soil	0.0037	U	0.0037	0.014
PCB-1254 (AROCLOR 1254)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75270SL	S34	1 - 1.5	SW8082	07/26/2002	Soil	0.0045	U	0.0045	0.017
PCB-1254 (AROCLOR 1254)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75271SL	S35	0 - 0.5	SW8082	07/26/2002	Soil	0.004	U	0.004	0.015
PCB-1254 (AROCLOR 1254)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75273SL	S36	0 - 0.5	SW8082	07/26/2002	Soil	0.0029	U	0.0029	0.011
PCB-1254 (AROCLOR 1254)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75275SL	S37	0 - 0.5	SW8082	07/26/2002	Soil	0.003	U	0.003	0.011
PCB-1254 (AROCLOR 1254)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75276SL	S37	1 - 1.5	SW8082	07/26/2002	Soil	0.0035	U	0.0035	0.013
PCB-1254 (AROCLOR 1254)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75277SL	S38	0 - 0.5	SW8082	07/26/2002	Soil	0.0036	U	0.0036	0.013
PCB-1254 (AROCLOR 1254)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75279SL	S39	0 - 0.5	SW8082	07/26/2002	Soil	0.0035	U	0.0035	0.013
PCB-1254 (AROCLOR 1254)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75281SL	S40	0 - 0.5	SW8082	07/26/2002	Soil	0.0037	U	0.0037	0.014
PCB-1254 (AROCLOR 1254)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75283SL-AVG	S41	0 - 0.5	SW8082	07/26/2002	Soil	0.0037	U		
PCB-1254 (AROCLOR 1254)	PEST/PCB	Bldg. 35-752, Transformer Mounting Area	02B75238SL	T13	0 - 0.5	SW8082	08/01/2002	Soil	0.00376	U	0.00376	0.014
PCB-1254 (AROCLOR 1254)	PEST/PCB	Bldg. 35-752, Transformer Mounting Area	02B75244SL	T15	0 - 0.5	SW8082	08/01/2002	Soil	0.00375	U	0.00375	0.014
PCB-1254 (AROCLOR 1254)	PEST/PCB	Bldg. 35-752, Transformer Mounting Area	02B75247SL	T16	0 - 0.5	SW8082	08/01/2002	Soil	0.00387	U	0.00387	0.0144
PCB-1254 (AROCLOR 1254)	PEST/PCB	Bldg. 35-752, Transformer Mounting Area	02B75250SL	T17	0 - 0.5	SW8082	08/01/2002	Soil	0.00365	U	0.00365	0.0136
PCB-1254 (AROCLOR 1254)	PEST/PCB	Bldg. 35-752, Transformer Mounting Area	02B75256SL	T19	0 - 0.5	SW8082	08/01/2002	Soil	0.00357	U	0.00357	0.0133
PCB-1254 (AROCLOR 1254)	PEST/PCB	Bldg. 35-752, Transformer Mounting Area	02B752246SL	T15	0.5 - 1	SW8082	10/15/2002	Soil	0.0037	U	0.0037	0.014
PCB-1254 (AROCLOR 1254)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B75201SL	T1	0 - 0.5	SW8082	08/01/2002	Soil	0.00432	U	0.00432	0.0161
PCB-1254 (AROCLOR 1254)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B75204SL	T2	0 - 0.5	SW8082	08/01/2002	Soil	0.00399	U	0.00399	0.0149
PCB-1254 (AROCLOR 1254)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B75207SL	T3	0 - 0.5	SW8082	08/01/2002	Soil	0.00365	U	0.00365	0.0136
PCB-1254 (AROCLOR 1254)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B75210SL	T4	0 - 0.5	SW8082	08/01/2002	Soil	0.0216	U	0.0216	0.0807
PCB-1254 (AROCLOR 1254)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B75213SL	T5	0 - 0.5	SW8082	08/01/2002	Soil	0.00371	U	0.00371	0.0138
PCB-1254 (AROCLOR 1254)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B75216SL	T6	0 - 0.5	SW8082	08/01/2002	Soil	0.0036	U	0.0036	0.0134
PCB-1254 (AROCLOR 1254)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B75219SL	T7	0 - 0.5	SW8082	08/01/2002	Soil	0.00355	U	0.00355	0.0132
PCB-1254 (AROCLOR 1254)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B75222SL	T8	0 - 0.5	SW8082	08/01/2002	Soil	0.00347	U	0.00347	0.013
PCB-1254 (AROCLOR 1254)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B75232SL	T11	0 - 0.5	SW8082	08/01/2002	Soil	0.00378	U	0.00378	0.0141
PCB-1254 (AROCLOR 1254)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B75228SL-AVG	T10	0 - 0.5	SW8082	08/01/2002	Soil	0.00409	U		
PCB-1254 (AROCLOR 1254)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B752205SL	T2	0.5 - 1	SW8082	10/15/2002	Soil	0.0037	U	0.0037	0.014
PCB-1254 (AROCLOR 1254)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B752214SL	T5	0.5 - 1	SW8082	10/15/2002	Soil	0.017	U	0.017	0.062
PCB-1254 (AROCLOR 1254)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B752218SL	T6	0.5 - 1	SW8082	10/15/2002	Soil	0.015	U	0.015	0.056
PCB-1254 (AROCLOR 1254)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B752233	T11	0.5 - 1	SW8082	10/15/2002	Soil	0.0045	U	0.0045	0.017
PCB-1254 (AROCLOR 1254)	PEST/PCB	fiber cable route	LCI 1-1	LCI1	1-2'	8082	05/10/2001	Soil	0.0313	U		0.0313
PCB-1254 (AROCLOR 1254)	PEST/PCB	fiber cable route	LCI 2-1	LCI2	1-2'	8082	05/10/2001	Soil	0.0323	U		0.0323
PCB-1254 (AROCLOR 1254)	PEST/PCB	fiber cable route	LCI 2-2	LCI2	2-3'	8082	05/10/2001	Soil	0.0313	U		0.0313
PCB-1254 (AROCLOR 1254)	PEST/PCB	fiber cable route	LCI 2-3-AVG	LCI2	3-4'	8082	05/10/2001	Soil	0.0325	U		0.0325
PCB-1254 (AROCLOR 1254)	PEST/PCB	fiber cable route	LCI 3-1	LCI3	1-2'	8082	05/10/2001	Soil	0.031	U		0.031
PCB-1254 (AROCLOR 1254)	PEST/PCB	fiber cable route	LCI 4-1	LCI4	1-2'	8082	05/10/2001	Soil	0.0326	U		0.0326
PCB-1254 (AROCLOR 1254)	PEST/PCB	fiber cable route	LCI 5-0	LCI5	0-1'	8082	05/10/2001	Soil	0.0346	U		0.0346
PCB-1254 (AROCLOR 1254)	PEST/PCB	fiber cable route	LCI 5-2	LCI5	2-3'	8082	05/10/2001	Soil	0.0321	U		0.0321
PCB-1254 (AROCLOR 1254)	PEST/PCB	fiber cable route	LCI 8-1	LCI8	0.5-1'	8082	05/10/2001	Soil	0.0329	U		0.0329
PCB-1254 (AROCLOR 1254)	PEST/PCB	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8080	12/08/1994	Sediment	0.1	U		0.1
PCB-1254 (AROCLOR 1254)	PEST/PCB	Cooling Pond	94575242SD	SD-B	0-6"	8080	12/08/1994	Sediment	0.1	U		0.1
PCB-1254 (AROCLOR 1254)	PEST/PCB	Cooling Pond	94575243SD	SD-C	0-6"	8080	12/08/1994	Sediment	0.1	U		0.1
PCB-1254 (AROCLOR 1254)	PEST/PCB	Cooling Pond	94575244SD	SD-D	0-6"	8080	12/08/1994	Sediment	0.1	U		0.1
PCB-1254 (AROCLOR 1254)	PEST/PCB	Cooling Pond	94575245SD	SD-E	0-6"	8080	12/08/1994	Sediment	0.1	U		0.1
PCB-1254 (AROCLOR 1254)	PEST/PCB	Cooling Pond	94575246SD	SD-F	0-6"	8080	12/08/1994	Sediment	0.1	U		0.1
PCB-1254 (AROCLOR 1254)	PEST/PCB	Cooling Pond	94575247SD	SD-G	0-6"	8080	12/08/1994	Sediment	0.1	U		0.1
PCB-1254 (AROCLOR 1254)	PEST/PCB	Cooling Pond	94575248SD	SD-H	0-6"	8080	12/08/1994	Sediment	0.1	U		0.1
PCB-1254 (AROCLOR 1254)	PEST/PCB	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8080	09/25/1996	Sediment	0.06	U	0.06	0.2
PCB-1254 (AROCLOR 1254)	PEST/PCB	119 ft from DP	96575205SD	96-SD5	----	8080	09/25/1996	Sediment	0.06	U	0.06	0.2
PCB-1254 (AROCLOR 1254)	PEST/PCB	147 ft from DP	96575206SD	96-SD6	----	8080	09/25/1996	Sediment	0.03	U	0.03	0.1
PCB-1254 (AROCLOR 1254)	PEST/PCB	165 ft from DP	96575208SD	96-SD8	----	8080	09/25/1996	Sediment	0.03	U	0.03	0.1
PCB-1254 (AROCLOR 1254)	PEST/PCB	171 ft from DP (east side)	96575209SD	96-SD9	----	8080	09/25/1996	Sediment	0.03	U	0.03	0.1
PCB-1254 (AROCLOR 1254)	PEST/PCB	171 ft from DP (west side)	96575207SD	96-SD7	----	8080	09/25/1996	Sediment	0.06	U	0.06	0.2
PCB-1254 (AROCLOR 1254)	PEST/PCB	40 ft from DP	96575202SD	96-SD2	----	8080	09/25/1996	Sediment	0.06	U	0.06	0.2
PCB-1254 (AROCLOR 1254)	PEST/PCB	79 ft from DP	96575203SD-AVG	96-SD3	----	8080	09/25/1996	Sediment	0.06	U	0.06	0.2
PCB-1254 (AROCLOR 1254)	PEST/PCB	Discharge pipe (DP)	96575201SD	96-SD1	----	8080	09/25/1996	Sediment	0.03	U	0.03	0.1
PCB-1254 (AROCLOR 1254)	PEST/PCB	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8080	09/26/1996	Sediment	0.06	U	0.06	0.2
PCB-1254 (AROCLOR 1254)	PEST/PCB	Downstream end of 35-752 pond	975752007SD-AVG	96-SD007	0	SW8081	10/21/1997	Sediment	0.02	U	0.02	0.2
PCB-1254 (AROCLOR 1254)	PEST/PCB	Drum Accumulation Area	94575210SL	SS 8	2'	8080	10/06/1994	Soil	0.1	U		0.1

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
PCB-1254 (AROCLOR 1254)	PEST/PCB	Drum Accumulation Area	94575211SL	SS 7	2'	8080	10/10/1994	Soil	0.1	U		0.1
PCB-1254 (AROCLOR 1254)	PEST/PCB	Drum Accumulation Area	94575212SL	SS 6	2'	8080	10/10/1994	Soil	0.1	U		0.1
PCB-1254 (AROCLOR 1254)	PEST/PCB	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8080	10/10/1994	Soil	0.1	U		0.1
PCB-1254 (AROCLOR 1254)	PEST/PCB	Drum Accumulation Area	94575215SL	SS 4	2'	8080	10/10/1994	Soil	0.1	U		0.1
PCB-1254 (AROCLOR 1254)	PEST/PCB	Drum Accumulation Area	94575216SL	SS 3	2'	8080	10/10/1994	Soil	0.1	U		0.1
PCB-1254 (AROCLOR 1254)	PEST/PCB	Drum Accumulation Area	94575217SL	SS 2	2'	8080	10/10/1994	Soil	0.1	U		0.1
PCB-1254 (AROCLOR 1254)	PEST/PCB	Drum Accumulation Area	94575218SL	SS 1	2'	8080	10/10/1994	Soil	0.1	U		0.1
PCB-1254 (AROCLOR 1254)	PEST/PCB	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8080	11/03/1994	Soil	0.1	U		0.1
PCB-1254 (AROCLOR 1254)	PEST/PCB	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8080	11/03/1994	Soil	0.1	U		0.1
PCB-1254 (AROCLOR 1254)	PEST/PCB	Cooling Pond	94575229SL	AP-3502	4'-6'	8080	11/07/1994	Soil	0.1	U		0.1
PCB-1254 (AROCLOR 1254)	PEST/PCB	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8080	11/09/1994	Soil	0.1	U		0.1
PCB-1254 (AROCLOR 1254)	PEST/PCB	Cooling Pond	94575240SL	AP-3501	5'-7'	8080	11/11/1994	Soil	0.1	U		0.1
PCB-1254 (AROCLOR 1254)	PEST/PCB	965752BH01	96575225SL	AP-3785	5	8080	10/02/1996	Soil	0.03	U	0.03	0.03
PCB-1254 (AROCLOR 1254)	PEST/PCB	965752BH03	96575231SL-AVG	AP-3787	2.5	8080	10/03/1996	Soil	0.03	U	0.03	0.03
PCB-1254 (AROCLOR 1254)	PEST/PCB	965752BH03	96575233SL	AP-3787	5	8080	10/03/1996	Soil	0.03	U	0.03	0.03
PCB-1254 (AROCLOR 1254)	PEST/PCB	965752BH04	96575238SL	AP-3788	2.5	8080	10/03/1996	Soil	0.03	U	0.03	0.03
PCB-1254 (AROCLOR 1254)	PEST/PCB	965752BH04	96575239SL-AVG	AP-3788	5	8080	10/03/1996	Soil	0.03	U	0.03	0.03
PCB-1254 (AROCLOR 1254)	PEST/PCB	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8080	10/06/1994	Soil	0.1	U		0.1
PCB-1254 (AROCLOR 1254)	PEST/PCB	Drum Accumulation Area	94575203SL	SS 2	6"	8080	10/06/1994	Soil	0.1	U		0.1
PCB-1254 (AROCLOR 1254)	PEST/PCB	Drum Accumulation Area	94575204SL	SS 3	6"	8080	10/06/1994	Soil	0.1	U		0.1
PCB-1254 (AROCLOR 1254)	PEST/PCB	Drum Accumulation Area	94575205SL	SS 4	6"	8080	10/06/1994	Soil	0.1	U		0.1
PCB-1254 (AROCLOR 1254)	PEST/PCB	Drum Accumulation Area	94575206SL	SS 5	6"	8080	10/06/1994	Soil	0.1	U		0.1
PCB-1254 (AROCLOR 1254)	PEST/PCB	Drum Accumulation Area	94575207SL	SS 6	6"	8080	10/06/1994	Soil	0.1	U		0.1
PCB-1254 (AROCLOR 1254)	PEST/PCB	Drum Accumulation Area	94575208SL	SS 7	6"	8080	10/06/1994	Soil	0.1	U		0.1
PCB-1254 (AROCLOR 1254)	PEST/PCB	Drum Accumulation Area	94575209SL	SS 8	6"	8080	10/06/1994	Soil	1	U		1
PCB-1254 (AROCLOR 1254)	PEST/PCB	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8080	11/03/1994	Soil	0.1	U		0.1
PCB-1254 (AROCLOR 1254)	PEST/PCB	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8080	11/03/1994	Soil	0.1	U		0.1
PCB-1254 (AROCLOR 1254)	PEST/PCB	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8080	11/07/1994	Soil	3.05	U		3.05
PCB-1254 (AROCLOR 1254)	PEST/PCB	Cooling Pond	94575231SL	AP-3503	0-6'	8080	11/08/1994	Soil	0.1	U		0.1
PCB-1254 (AROCLOR 1254)	PEST/PCB	Cooling Pond	94575235SL	AP-3504	0-2'	8080	11/09/1994	Soil	0.1	U		0.1
PCB-1254 (AROCLOR 1254)	PEST/PCB	965752BH03	96575230SL	AP-3787	0	8080	10/03/1996	Soil	0.03	U	0.03	0.1
PCB-1254 (AROCLOR 1254)	PEST/PCB	965752BH04	96575236SL-AVG	AP-3788	0	8080	10/03/1996	Soil	0.03	U	0.03	0.1
PCB-1260 (AROCLOR 1260)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752130SL	P1	0 - 0.5	SW8082	07/30/2002	Soil	0.362	J	0.0169	0.0705
PCB-1260 (AROCLOR 1260)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752132SL	P1	1.5 - 2	SW8082	07/30/2002	Soil	0.00338	U	0.00338	0.0141
PCB-1260 (AROCLOR 1260)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752134SL	P2	1 - 1.5	SW8082	07/30/2002	Soil	0.00473	J	0.00339	0.0141
PCB-1260 (AROCLOR 1260)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752143SL	P5	1 - 1.5	SW8082	07/30/2002	Soil	0.138	J	0.00318	0.0133
PCB-1260 (AROCLOR 1260)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752147SL	P6	1.5 - 2	SW8082	07/30/2002	Soil	0.011	J	0.00322	0.0134
PCB-1260 (AROCLOR 1260)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752148SL	P7	0 - 0.5	SW8082	07/30/2002	Soil	0.794	J	0.035	0.146
PCB-1260 (AROCLOR 1260)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752152SL	P8	1 - 1.5	SW8082	07/30/2002	Soil	0.584	J	0.0351	0.146
PCB-1260 (AROCLOR 1260)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752156SL	P9	1.5 - 2	SW8082	07/30/2002	Soil	0.172	J	0.00348	0.0145
PCB-1260 (AROCLOR 1260)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752197SL	P22	1.5 - 2	SW8082	07/30/2002	Soil	0.19	J	0.0143	0.0597
PCB-1260 (AROCLOR 1260)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752198SL	P23	0 - 0.5	SW8082	07/30/2002	Soil	0.0406	J	0.00309	0.0129
PCB-1260 (AROCLOR 1260)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752202SL	P24	1 - 1.5	SW8082	07/30/2002	Soil	0.0283	J	0.00353	0.0147
PCB-1260 (AROCLOR 1260)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752206SL	P25	1.5 - 2	SW8082	07/30/2002	Soil	0.0155	J	0.0035	0.0146
PCB-1260 (AROCLOR 1260)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752211SL	P27	1 - 1.5	SW8082	07/30/2002	Soil	0.058	J	0.00313	0.0131
PCB-1260 (AROCLOR 1260)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752215SL	P28	1.5 - 2	SW8082	07/30/2002	Soil	0.00744	J	0.00313	0.013
PCB-1260 (AROCLOR 1260)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752220SL	P30	1 - 1.5	SW8082	07/30/2002	Soil	0.052	J	0.00317	0.0132
PCB-1260 (AROCLOR 1260)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752221SL	P30	1 - 1.5	SW8082	07/30/2002	Soil	0.0535	J	0.00324	0.0135
PCB-1260 (AROCLOR 1260)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752157SL-AVG	P10	0 - 0.5	SW8082	07/30/2002	Soil	0.447	J		
PCB-1260 (AROCLOR 1260)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752207SL	P26	0 - 0.5	SW8082	07/30/2002	Soil	0.216	J		
PCB-1260 (AROCLOR 1260)	PEST/PCB	Bldg. 35-752, Periphery Road	02B752216SL-AVG	P29	0 - 0.5	SW8082	07/30/2002	Soil	2.785	J		
PCB-1260 (AROCLOR 1260)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75264SL	S31	1 - 1.5	SW8082	07/26/2002	Soil	0.02	J	0.0031	0.013
PCB-1260 (AROCLOR 1260)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75265SL	S32	0 - 0.5	SW8082	07/26/2002	Soil	0.48	J	0.067	0.28
PCB-1260 (AROCLOR 1260)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75270SL	S34	1 - 1.5	SW8082	07/26/2002	Soil	0.004	UJ	0.004	0.017
PCB-1260 (AROCLOR 1260)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75271SL	S35	0 - 0.5	SW8082	07/26/2002	Soil	0.42	J	0.072	0.3
PCB-1260 (AROCLOR 1260)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75273SL	S36	0 - 0.5	SW8082	07/26/2002	Soil	0.29	=	0.026	0.11
PCB-1260 (AROCLOR 1260)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75275SL	S37	0 - 0.5	SW8082	07/26/2002	Soil	0.13	J	0.026	0.11
PCB-1260 (AROCLOR 1260)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75276SL	S37	1 - 1.5	SW8082	07/26/2002	Soil	0.79	=	0.16	0.66
PCB-1260 (AROCLOR 1260)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75277SL	S38	0 - 0.5	SW8082	07/26/2002	Soil	0.025	J	0.0032	0.013
PCB-1260 (AROCLOR 1260)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75279SL	S39	0 - 0.5	SW8082	07/26/2002	Soil	0.047	J	0.0032	0.013
PCB-1260 (AROCLOR 1260)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75281SL	S40	0 - 0.5	SW8082	07/26/2002	Soil	0.33	UJ	0.33	1.4
PCB-1260 (AROCLOR 1260)	PEST/PCB	Bldg. 35-752, Stockpile Area	02B75283SL-AVG	S41	0 - 0.5	SW8082	07/26/2002	Soil	0.435	J		

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
PCB-1260 (AROCLOR 1260)	PEST/PCB	Bldg. 35-752, Transformer Mounting Area	02B75238SL	T13	0 - 0.5	SW8082	08/01/2002	Soil	0.144	J	0.00337	0.014
PCB-1260 (AROCLOR 1260)	PEST/PCB	Bldg. 35-752, Transformer Mounting Area	02B75244SL	T15	0 - 0.5	SW8082	08/01/2002	Soil	3.48	=	0.168	0.7
PCB-1260 (AROCLOR 1260)	PEST/PCB	Bldg. 35-752, Transformer Mounting Area	02B75247SL	T16	0 - 0.5	SW8082	08/01/2002	Soil	99.9	J	3.47	14.4
PCB-1260 (AROCLOR 1260)	PEST/PCB	Bldg. 35-752, Transformer Mounting Area	02B75250SL	T17	0 - 0.5	SW8082	08/01/2002	Soil	0.157	=	0.00327	0.0136
PCB-1260 (AROCLOR 1260)	PEST/PCB	Bldg. 35-752, Transformer Mounting Area	02B75256SL	T19	0 - 0.5	SW8082	08/01/2002	Soil	0.0485	J	0.0032	0.0133
PCB-1260 (AROCLOR 1260)	PEST/PCB	Bldg. 35-752, Transformer Mounting Area	02B752246SL	T15	0.5 - 1	SW8082	10/15/2002	Soil	1.2	=	0.066	0.28
PCB-1260 (AROCLOR 1260)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B75201SL	T1	0 - 0.5	SW8082	08/01/2002	Soil	0.353	J	0.0193	0.0806
PCB-1260 (AROCLOR 1260)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B75204SL	T2	0 - 0.5	SW8082	08/01/2002	Soil	6.67	=	0.357	1.49
PCB-1260 (AROCLOR 1260)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B75207SL	T3	0 - 0.5	SW8082	08/01/2002	Soil	0.756	=	0.0327	0.136
PCB-1260 (AROCLOR 1260)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B75210SL	T4	0 - 0.5	SW8082	08/01/2002	Soil	0.986	J	0.0387	0.161
PCB-1260 (AROCLOR 1260)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B75213SL	T5	0 - 0.5	SW8082	08/01/2002	Soil	0.889	=	0.0332	0.138
PCB-1260 (AROCLOR 1260)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B75216SL	T6	0 - 0.5	SW8082	08/01/2002	Soil	0.907	=	0.0323	0.134
PCB-1260 (AROCLOR 1260)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B75219SL	T7	0 - 0.5	SW8082	08/01/2002	Soil	0.36	J	0.0159	0.0662
PCB-1260 (AROCLOR 1260)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B75222SL	T8	0 - 0.5	SW8082	08/01/2002	Soil	0.29	=	0.0156	0.0648
PCB-1260 (AROCLOR 1260)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B75232SL	T11	0 - 0.5	SW8082	08/01/2002	Soil	14	=	0.677	2.82
PCB-1260 (AROCLOR 1260)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B75228SL-AVG	T10	0 - 0.5	SW8082	08/01/2002	Soil	0.131	J		
PCB-1260 (AROCLOR 1260)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B752205SL	T2	0.5 - 1	SW8082	10/15/2002	Soil	3.1	=	0.17	0.69
PCB-1260 (AROCLOR 1260)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B752214SL	T5	0.5 - 1	SW8082	10/15/2002	Soil	0.68	J	0.03	0.12
PCB-1260 (AROCLOR 1260)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B752218SL	T6	0.5 - 1	SW8082	10/15/2002	Soil	38	J	1.3	5.6
PCB-1260 (AROCLOR 1260)	PEST/PCB	Bldg. 35-752, Transformer Oil Discharge Area	02B752233	T11	0.5 - 1	SW8082	10/15/2002	Soil	1	=	0.08	0.33
PCB-1260 (AROCLOR 1260)	PEST/PCB	fiber cable route	LCI 1-1	LCI1	1-2'	8082	05/10/2001	Soil	1.14	=		0.0313
PCB-1260 (AROCLOR 1260)	PEST/PCB	fiber cable route	LCI 2-1	LCI2	1-2'	8082	05/10/2001	Soil	0.465	=		0.0323
PCB-1260 (AROCLOR 1260)	PEST/PCB	fiber cable route	LCI 2-2	LCI2	2-3'	8082	05/10/2001	Soil	0.233	=		0.0313
PCB-1260 (AROCLOR 1260)	PEST/PCB	fiber cable route	LCI 2-3-AVG	LCI2	3-4'	8082	05/10/2001	Soil	0.255	=		0.0325
PCB-1260 (AROCLOR 1260)	PEST/PCB	fiber cable route	LCI 3-1	LCI3	1-2'	8082	05/10/2001	Soil	0.459	=		0.031
PCB-1260 (AROCLOR 1260)	PEST/PCB	fiber cable route	LCI 4-1	LCI4	1-2'	8082	05/10/2001	Soil	0.681	=		0.0326
PCB-1260 (AROCLOR 1260)	PEST/PCB	fiber cable route	LCI 5-0	LCI5	0-1'	8082	05/10/2001	Soil	0.521	=		0.0346
PCB-1260 (AROCLOR 1260)	PEST/PCB	fiber cable route	LCI 5-2	LCI5	2-3'	8082	05/10/2001	Soil	0.221	=		0.0321
PCB-1260 (AROCLOR 1260)	PEST/PCB	fiber cable route	LCI 8-1	LCI8	0.5-1'	8082	05/10/2001	Soil	0.265	=		0.0329
PCB-1260 (AROCLOR 1260)	PEST/PCB	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8080	12/08/1994	Sediment	0.4	=		0.1
PCB-1260 (AROCLOR 1260)	PEST/PCB	Cooling Pond	94575242SD	SD-B	0-6"	8080	12/08/1994	Sediment	0.4	=		0.1
PCB-1260 (AROCLOR 1260)	PEST/PCB	Cooling Pond	94575243SD	SD-C	0-6"	8080	12/08/1994	Sediment	0.8	=		0.1
PCB-1260 (AROCLOR 1260)	PEST/PCB	Cooling Pond	94575244SD	SD-D	0-6"	8080	12/08/1994	Sediment	0.1	=		0.1
PCB-1260 (AROCLOR 1260)	PEST/PCB	Cooling Pond	94575245SD	SD-E	0-6"	8080	12/08/1994	Sediment	0.5	=		0.1
PCB-1260 (AROCLOR 1260)	PEST/PCB	Cooling Pond	94575246SD	SD-F	0-6"	8080	12/08/1994	Sediment	2.2	=		0.1
PCB-1260 (AROCLOR 1260)	PEST/PCB	Cooling Pond	94575247SD	SD-G	0-6"	8080	12/08/1994	Sediment	4.5	=		0.1
PCB-1260 (AROCLOR 1260)	PEST/PCB	Cooling Pond	94575248SD	SD-H	0-6"	8080	12/08/1994	Sediment	3.4	=		0.1
PCB-1260 (AROCLOR 1260)	PEST/PCB	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8080	09/25/1996	Sediment	0.77	=	0.06	0.2
PCB-1260 (AROCLOR 1260)	PEST/PCB	119 ft from DP	96575205SD	96-SD5	----	8080	09/25/1996	Sediment	1.6	=	0.06	0.2
PCB-1260 (AROCLOR 1260)	PEST/PCB	147 ft from DP	96575206SD	96-SD6	----	8080	09/25/1996	Sediment	0.9	=	0.03	0.1
PCB-1260 (AROCLOR 1260)	PEST/PCB	165 ft from DP	96575208SD	96-SD8	----	8080	09/25/1996	Sediment	0.55	=	0.03	0.1
PCB-1260 (AROCLOR 1260)	PEST/PCB	171 ft from DP (east side)	96575209SD	96-SD9	----	8080	09/25/1996	Sediment	0.34	=	0.03	0.1
PCB-1260 (AROCLOR 1260)	PEST/PCB	171 ft from DP (west side)	96575207SD	96-SD7	----	8080	09/25/1996	Sediment	0.94	=	0.06	0.2
PCB-1260 (AROCLOR 1260)	PEST/PCB	40 ft from DP	96575202SD	96-SD2	----	8080	09/25/1996	Sediment	3.1	=	0.06	0.2
PCB-1260 (AROCLOR 1260)	PEST/PCB	79 ft from DP	96575203SD-AVG	96-SD3	----	8080	09/25/1996	Sediment	1.35	=	0.06	0.2
PCB-1260 (AROCLOR 1260)	PEST/PCB	Discharge pipe (DP)	96575201SD	96-SD1	----	8080	09/25/1996	Sediment	0.11	=	0.03	0.1
PCB-1260 (AROCLOR 1260)	PEST/PCB	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8080	09/26/1996	Sediment	0.69	=	0.06	0.2
PCB-1260 (AROCLOR 1260)	PEST/PCB	Downstream end of 35-752 pond	975752007SD-AVG	96-SD007	0	SW8081	10/21/1997	Sediment	3.3	=	0.03	0.2
PCB-1260 (AROCLOR 1260)	PEST/PCB	Drum Accumulation Area	94575210SL	SS 8	2'	8080	10/06/1994	Soil	1.9	=		0.1
PCB-1260 (AROCLOR 1260)	PEST/PCB	Drum Accumulation Area	94575211SL	SS 7	2'	8080	10/10/1994	Soil	0.5	=		0.1
PCB-1260 (AROCLOR 1260)	PEST/PCB	Drum Accumulation Area	94575212SL	SS 6	2'	8080	10/10/1994	Soil	0.6	=		0.1
PCB-1260 (AROCLOR 1260)	PEST/PCB	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8080	10/10/1994	Soil	0.1	U		0.1
PCB-1260 (AROCLOR 1260)	PEST/PCB	Drum Accumulation Area	94575215SL	SS 4	2'	8080	10/10/1994	Soil	0.1	U		0.1
PCB-1260 (AROCLOR 1260)	PEST/PCB	Drum Accumulation Area	94575216SL	SS 3	2'	8080	10/10/1994	Soil	0.1	U		0.1
PCB-1260 (AROCLOR 1260)	PEST/PCB	Drum Accumulation Area	94575217SL	SS 2	2'	8080	10/10/1994	Soil	0.1	U		0.1
PCB-1260 (AROCLOR 1260)	PEST/PCB	Drum Accumulation Area	94575218SL	SS 1	2'	8080	10/10/1994	Soil	0.1	U		0.1
PCB-1260 (AROCLOR 1260)	PEST/PCB	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8080	11/03/1994	Soil	1.1	=		0.1
PCB-1260 (AROCLOR 1260)	PEST/PCB	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8080	11/03/1994	Soil	0.1	U		0.1
PCB-1260 (AROCLOR 1260)	PEST/PCB	Cooling Pond	94575229SL	AP-3502	4'-6'	8080	11/07/1994	Soil	0.7	=		0.1
PCB-1260 (AROCLOR 1260)	PEST/PCB	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8080	11/09/1994	Soil	0.1	U		0.1
PCB-1260 (AROCLOR 1260)	PEST/PCB	Cooling Pond	94575240SL	AP-3501	5'-7'	8080	11/11/1994	Soil	18.6	=		0.1
PCB-1260 (AROCLOR 1260)	PEST/PCB	965752BH01	96575225SL	AP-3785	5	8080	10/02/1996	Soil	1.4	=	0.03	0.03

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
PCB-1260 (AROCLOR 1260)	PEST/PCB	965752BH03	96575231SL-AVG	AP-3787	2.5	8080	10/03/1996	Soil	0.415	=	0.03	0.03
PCB-1260 (AROCLOR 1260)	PEST/PCB	965752BH03	96575233SL	AP-3787	5	8080	10/03/1996	Soil	0.07	J	0.03	0.03
PCB-1260 (AROCLOR 1260)	PEST/PCB	965752BH04	96575238SL	AP-3788	2.5	8080	10/03/1996	Soil	0.03	U	0.03	0.03
PCB-1260 (AROCLOR 1260)	PEST/PCB	965752BH04	96575239SL-AVG	AP-3788	5	8080	10/03/1996	Soil	0.03	U	0.03	0.03
PCB-1260 (AROCLOR 1260)	PEST/PCB	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8080	10/06/1994	Soil	0.1	U		0.1
PCB-1260 (AROCLOR 1260)	PEST/PCB	Drum Accumulation Area	94575203SL	SS 2	6"	8080	10/06/1994	Soil	0.1	U		0.1
PCB-1260 (AROCLOR 1260)	PEST/PCB	Drum Accumulation Area	94575204SL	SS 3	6"	8080	10/06/1994	Soil	0.1	U		0.1
PCB-1260 (AROCLOR 1260)	PEST/PCB	Drum Accumulation Area	94575205SL	SS 4	6"	8080	10/06/1994	Soil	0.5	=		0.1
PCB-1260 (AROCLOR 1260)	PEST/PCB	Drum Accumulation Area	94575206SL	SS 5	6"	8080	10/06/1994	Soil	1.1	=		0.1
PCB-1260 (AROCLOR 1260)	PEST/PCB	Drum Accumulation Area	94575207SL	SS 6	6"	8080	10/06/1994	Soil	1.1	=		0.1
PCB-1260 (AROCLOR 1260)	PEST/PCB	Drum Accumulation Area	94575208SL	SS 7	6"	8080	10/06/1994	Soil	1.9	=		0.1
PCB-1260 (AROCLOR 1260)	PEST/PCB	Drum Accumulation Area	94575209SL	SS 8	6"	8080	10/06/1994	Soil	15.6	=		0.1
PCB-1260 (AROCLOR 1260)	PEST/PCB	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8080	11/03/1994	Soil	3.4	=		0.1
PCB-1260 (AROCLOR 1260)	PEST/PCB	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8080	11/03/1994	Soil	0.3	=		0.1
PCB-1260 (AROCLOR 1260)	PEST/PCB	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8080	11/07/1994	Soil	5.5	=		0.1
PCB-1260 (AROCLOR 1260)	PEST/PCB	Cooling Pond	94575231SL	AP-3503	0-6'	8080	11/08/1994	Soil	0.5	=		0.1
PCB-1260 (AROCLOR 1260)	PEST/PCB	Cooling Pond	94575235SL	AP-3504	0-2'	8080	11/09/1994	Soil	0.6	=		0.1
PCB-1260 (AROCLOR 1260)	PEST/PCB	965752BH03	96575230SL	AP-3787	0	8080	10/03/1996	Soil	0.89	=	0.03	0.1
P-CYMENE (p-ISOPROPYLTOLUENE)	VOC	965752BH04	96575236SL-AVG	AP-3788	0	8080	10/03/1996	Soil	0.31	=	0.03	0.1
P-CYMENE (p-ISOPROPYLTOLUENE)	VOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
P-CYMENE (p-ISOPROPYLTOLUENE)	VOC	Cooling Pond	94575242SD	SD-B	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
P-CYMENE (p-ISOPROPYLTOLUENE)	VOC	Cooling Pond	94575243SD	SD-C	0-6"	8260	12/08/1994	Sediment	0.04	U		0.04
P-CYMENE (p-ISOPROPYLTOLUENE)	VOC	Cooling Pond	94575244SD	SD-D	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
P-CYMENE (p-ISOPROPYLTOLUENE)	VOC	Cooling Pond	94575245SD	SD-E	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
P-CYMENE (p-ISOPROPYLTOLUENE)	VOC	Cooling Pond	94575246SD	SD-F	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
P-CYMENE (p-ISOPROPYLTOLUENE)	VOC	Cooling Pond	94575247SD	SD-G	0-6"	8260	12/08/1994	Sediment	0.04	U		0.04
P-CYMENE (p-ISOPROPYLTOLUENE)	VOC	Cooling Pond	94575248SD	SD-H	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
P-CYMENE (p-ISOPROPYLTOLUENE)	VOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.04
P-CYMENE (p-ISOPROPYLTOLUENE)	VOC	119 ft from DP	96575205SD	96-SD5	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.04
P-CYMENE (p-ISOPROPYLTOLUENE)	VOC	147 ft from DP	96575206SD	96-SD6	----	8260	09/25/1996	Sediment	0.13	=	0.0006	0.02
P-CYMENE (p-ISOPROPYLTOLUENE)	VOC	165 ft from DP	96575208SD	96-SD8	----	8260	09/25/1996	Sediment	0.0006	U	0.0006	0.02
P-CYMENE (p-ISOPROPYLTOLUENE)	VOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8260	09/25/1996	Sediment	0.0006	U	0.0006	0.02
P-CYMENE (p-ISOPROPYLTOLUENE)	VOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.06
P-CYMENE (p-ISOPROPYLTOLUENE)	VOC	40 ft from DP	96575202SD	96-SD2	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.04
P-CYMENE (p-ISOPROPYLTOLUENE)	VOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.04
P-CYMENE (p-ISOPROPYLTOLUENE)	VOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8260	09/25/1996	Sediment	0.0006	U	0.0006	0.02
P-CYMENE (p-ISOPROPYLTOLUENE)	VOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8260	09/26/1996	Sediment	0.002	U	0.002	0.04
P-CYMENE (p-ISOPROPYLTOLUENE)	VOC	Drum Accumulation Area	94575210SL	SS 8	2'	8260	10/06/1994	Soil	0.02	U		0.02
P-CYMENE (p-ISOPROPYLTOLUENE)	VOC	Drum Accumulation Area	94575211SL	SS 7	2'	8260	10/10/1994	Soil	0.02	U		0.02
P-CYMENE (p-ISOPROPYLTOLUENE)	VOC	Drum Accumulation Area	94575212SL	SS 6	2'	8260	10/10/1994	Soil	0.02	U		0.02
P-CYMENE (p-ISOPROPYLTOLUENE)	VOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8260	10/10/1994	Soil	0.02	U		0.02
P-CYMENE (p-ISOPROPYLTOLUENE)	VOC	Drum Accumulation Area	94575215SL	SS 4	2'	8260	10/10/1994	Soil	0.02	U		0.02
P-CYMENE (p-ISOPROPYLTOLUENE)	VOC	Drum Accumulation Area	94575216SL	SS 3	2'	8260	10/10/1994	Soil	0.02	U		0.02
P-CYMENE (p-ISOPROPYLTOLUENE)	VOC	Drum Accumulation Area	94575217SL	SS 2	2'	8260	10/10/1994	Soil	0.02	U		0.02
P-CYMENE (p-ISOPROPYLTOLUENE)	VOC	Drum Accumulation Area	94575218SL	SS 1	2'	8260	10/10/1994	Soil	0.02	U		0.02
P-CYMENE (p-ISOPROPYLTOLUENE)	VOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8260	11/03/1994	Soil	0.02	U		0.02
P-CYMENE (p-ISOPROPYLTOLUENE)	VOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8260	11/03/1994	Soil	0.02	U		0.02
P-CYMENE (p-ISOPROPYLTOLUENE)	VOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8260	11/07/1994	Soil	0.02	U		0.02
P-CYMENE (p-ISOPROPYLTOLUENE)	VOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8260	11/09/1994	Soil	0.02	U		0.02
P-CYMENE (p-ISOPROPYLTOLUENE)	VOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8260	11/11/1994	Soil	0.02	U		0.02
P-CYMENE (p-ISOPROPYLTOLUENE)	VOC	965752BH01	96575225SL	AP-3785	5	8260	10/02/1996	Soil	0.0006	U	0.0006	0.0006
P-CYMENE (p-ISOPROPYLTOLUENE)	VOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8260	10/03/1996	Soil	0.0006	U	0.0006	0.0006
P-CYMENE (p-ISOPROPYLTOLUENE)	VOC	965752BH04	96575238SL	AP-3788	2.5	8260	10/03/1996	Soil	0.0006	U	0.0006	0.0006
P-CYMENE (p-ISOPROPYLTOLUENE)	VOC	965752BH04	96575239SL-AVG	AP-3788	5	8260	10/03/1996	Soil	0.0006	U	0.0006	0.0006
P-CYMENE (p-ISOPROPYLTOLUENE)	VOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8260	10/06/1994	Soil	0.02	U		0.02
P-CYMENE (p-ISOPROPYLTOLUENE)	VOC	Drum Accumulation Area	94575203SL	SS 2	6"	8260	10/06/1994	Soil	0.02	U		0.02
P-CYMENE (p-ISOPROPYLTOLUENE)	VOC	Drum Accumulation Area	94575204SL	SS 3	6"	8260	10/06/1994	Soil	0.02	U		0.02
P-CYMENE (p-ISOPROPYLTOLUENE)	VOC	Drum Accumulation Area	94575205SL	SS 4	6"	8260	10/06/1994	Soil	0.02	U		0.02
P-CYMENE (p-ISOPROPYLTOLUENE)	VOC	Drum Accumulation Area	94575206SL	SS 5	6"	8260	10/06/1994	Soil	0.02	U		0.02
P-CYMENE (p-ISOPROPYLTOLUENE)	VOC	Drum Accumulation Area	94575207SL	SS 6	6"	8260	10/06/1994	Soil	0.02	U		0.02
P-CYMENE (p-ISOPROPYLTOLUENE)	VOC	Drum Accumulation Area	94575208SL	SS 7	6"	8260	10/06/1994	Soil	0.02	U		0.02
P-CYMENE (p-ISOPROPYLTOLUENE)	VOC	Drum Accumulation Area	94575209SL	SS 8	6"	8260	10/06/1994	Soil	0.02	U		0.02

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
P-CYMENE (p-ISOPROPYLTOLUENE)	VOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8260	11/03/1994	Soil	0.02	U		0.02
P-CYMENE (p-ISOPROPYLTOLUENE)	VOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8260	11/03/1994	Soil	0.02	U		0.02
P-CYMENE (p-ISOPROPYLTOLUENE)	VOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8260	11/07/1994	Soil	0.0205	UD		0.02
P-CYMENE (p-ISOPROPYLTOLUENE)	VOC	Cooling Pond	94575231SL	AP-3503	0-6'	8260	11/08/1994	Soil	0.02	U		0.02
P-CYMENE (p-ISOPROPYLTOLUENE)	VOC	Cooling Pond	94575235SL	AP-3504	0-2'	8260	11/09/1994	Soil	0.02	U		0.02
P-CYMENE (p-ISOPROPYLTOLUENE)	VOC	965752BH03	96575230SL	AP-3787	0	8260	10/03/1996	Soil	0.0006	U	0.0006	0.02
P-CYMENE (p-ISOPROPYLTOLUENE)	VOC	965752BH04	96575236SL-AVG	AP-3788	0	8260	10/03/1996	Soil	0.0006	U	0.0006	0.02
PENTACHLORINATED DIBENZOFURANS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752132SL	P1	1.5 - 2	SW8290D	07/30/2002	Soil	0.0000014	=	0.00000095	0.000005
PENTACHLORINATED DIBENZOFURANS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752202SL	P24	1 - 1.5	SW8290D	07/30/2002	Soil	0.0000093	=	0.00000094	0.000005
PENTACHLORINATED DIBENZOFURANS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752215SL	P28	1.5 - 2	SW8290D	07/30/2002	Soil	0.00000095	U	0.00000095	0.000005
PENTACHLORINATED DIBENZOFURANS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752220SL	P30	1 - 1.5	SW8290D	07/30/2002	Soil	0.0000302	=	0.00000095	0.000005
PENTACHLORINATED DIBENZOFURANS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752157SL-AVG	P10	0 - 0.5	SW8290D	07/30/2002	Soil	0.0000504	=		
PENTACHLORINATED DIBENZOFURANS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752208SL	P26	0 - 0.5	SW8290D	07/30/2002	Soil	0.0000947	=		
PENTACHLORINATED DIBENZOFURANS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752217SL	P29	0 - 0.5	SW8290D	07/30/2002	Soil	0.0000935	=		
PENTACHLORINATED DIBENZOFURANS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75264SL	S31	1 - 1.5	SW8290D	07/26/2002	Soil	0.00000021	=	0.00000092	0.0000049
PENTACHLORINATED DIBENZOFURANS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75270SL	S34	1 - 1.5	SW8290D	07/26/2002	Soil	0.0000094	=	0.00000094	0.0000049
PENTACHLORINATED DIBENZOFURANS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75277SL	S38	0 - 0.5	SW8290D	07/26/2002	Soil	0.0000259	=	0.00000094	0.000005
PENTACHLORINATED DIBENZOFURANS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75283SL-AVG	S41	0 - 0.5	SW8290D	07/26/2002	Soil	0.0000177	=		
PENTACHLORINATED DIBENZOFURANS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Transformer Mounting Area	02B75238SL	T13	0 - 0.5	SW8290D	08/01/2002	Soil	0.00019	=	0.00000095	0.000005
PENTACHLORINATED DIBENZOFURANS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Transformer Mounting Area	02B75244SL	T15	0 - 0.5	SW8290D	08/01/2002	Soil	0.00021	=	0.00000094	0.000005
PENTACHLORINATED DIBENZOFURANS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B75216SL	T6	0 - 0.5	SW8290D	08/01/2002	Soil	0.0000865	=	0.00000093	0.0000049
PENTACHLORINATED DIBENZOFURANS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B75229SL	T10	0 - 0.5	SW8290D	08/01/2002	Soil	0.000146	=		
PENTACHLORINATED DIBENZOFURANS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B752233	T11	0.5 - 1	SW8290D	10/15/2002	Soil	0.0000452	=	0.00000095	0.000005
PENTACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752132SL	P1	1.5 - 2	SW8290D	07/30/2002	Soil	0.00000049	U	0.00000049	0.000005
PENTACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752202SL	P24	1 - 1.5	SW8290D	07/30/2002	Soil	0.00000049	U	0.00000049	0.000005
PENTACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752215SL	P28	1.5 - 2	SW8290D	07/30/2002	Soil	0.00000049	U	0.00000049	0.000005
PENTACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752220SL	P30	1 - 1.5	SW8290D	07/30/2002	Soil	0.00000049	U	0.00000049	0.000005
PENTACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752157SL-AVG	P10	0 - 0.5	SW8290D	07/30/2002	Soil	0.0000011	=		
PENTACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752208SL	P26	0 - 0.5	SW8290D	07/30/2002	Soil	0.0000018	=		
PENTACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752217SL	P29	0 - 0.5	SW8290D	07/30/2002	Soil	0.00000088	=		
PENTACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75264SL	S31	1 - 1.5	SW8290D	07/26/2002	Soil	0.00000048	U	0.00000048	0.0000049
PENTACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75270SL	S34	1 - 1.5	SW8290D	07/26/2002	Soil	0.00000048	U	0.00000048	0.0000049
PENTACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75277SL	S38	0 - 0.5	SW8290D	07/26/2002	Soil	0.00000049	U	0.00000049	0.000005
PENTACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75283SL-AVG	S41	0 - 0.5	SW8290D	07/26/2002	Soil	0.0000086	=		
PENTACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Transformer Mounting Area	02B75238SL	T13	0 - 0.5	SW8290D	08/01/2002	Soil	0.00000064	=	0.00000049	0.000005
PENTACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Transformer Mounting Area	02B75244SL	T15	0 - 0.5	SW8290D	08/01/2002	Soil	0.0000037	=	0.00000049	0.000005
PENTACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B75216SL	T6	0 - 0.5	SW8290D	08/01/2002	Soil	0.00000074	=	0.00000048	0.0000049
PENTACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B75229SL	T10	0 - 0.5	SW8290D	08/01/2002	Soil	0.00000049	U		
PENTACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B752233	T11	0.5 - 1	SW8290D	10/15/2002	Soil	0.00000049	U	0.00000049	0.000005
PENTACHLOROPHENOL	SVOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8270	12/08/1994	Sediment	2	U		2
PENTACHLOROPHENOL	SVOC	Cooling Pond	94575242SD	SD-B	0-6"	8270	12/08/1994	Sediment	2	U		2
PENTACHLOROPHENOL	SVOC	Cooling Pond	94575243SD	SD-C	0-6"	8270	12/08/1994	Sediment	24	U		24
PENTACHLOROPHENOL	SVOC	Cooling Pond	94575244SD	SD-D	0-6"	8270	12/08/1994	Sediment	2	U		2
PENTACHLOROPHENOL	SVOC	Cooling Pond	94575245SD	SD-E	0-6"	8270	12/08/1994	Sediment	2	U		2
PENTACHLOROPHENOL	SVOC	Cooling Pond	94575246SD	SD-F	0-6"	8270	12/08/1994	Sediment	2	U		2
PENTACHLOROPHENOL	SVOC	Cooling Pond	94575247SD	SD-G	0-6"	8270	12/08/1994	Sediment	4.5	U		4.5
PENTACHLOROPHENOL	SVOC	Cooling Pond	94575248SD	SD-H	0-6"	8270	12/08/1994	Sediment	2	U		2
PENTACHLOROPHENOL	SVOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8270	09/25/1996	Sediment	0.2	U	0.2	20
PENTACHLOROPHENOL	SVOC	119 ft from DP	96575205SD	96-SD5	----	8270	09/25/1996	Sediment	0.05	U	0.05	4.6
PENTACHLOROPHENOL	SVOC	147 ft from DP	96575206SD	96-SD6	----	8270	09/25/1996	Sediment	0.02	U	0.02	2
PENTACHLOROPHENOL	SVOC	165 ft from DP	96575208SD	96-SD8	----	8270	09/25/1996	Sediment	0.02	U	0.02	2
PENTACHLOROPHENOL	SVOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8270	09/25/1996	Sediment	0.02	U	0.02	2
PENTACHLOROPHENOL	SVOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8270	09/25/1996	Sediment	0.04	U	0.04	4.2
PENTACHLOROPHENOL	SVOC	40 ft from DP	96575202SD	96-SD2	----	8270	09/25/1996	Sediment	0.05	U	0.05	4.6
PENTACHLOROPHENOL	SVOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8270	09/25/1996	Sediment	0.05	U	0.05	4.6
PENTACHLOROPHENOL	SVOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8270	09/25/1996	Sediment	0.02	U	0.02	2
PENTACHLOROPHENOL	SVOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8270	09/26/1996	Sediment	0.08	U	0.08	8
PENTACHLOROPHENOL	SVOC	Drum Accumulation Area	94575210SL	SS 8	2'	8270	10/06/1994	Soil	2	U		2
PENTACHLOROPHENOL	SVOC	Drum Accumulation Area	94575211SL	SS 7	2'	8270	10/10/1994	Soil	2	U		2
PENTACHLOROPHENOL	SVOC	Drum Accumulation Area	94575212SL	SS 6	2'	8270	10/10/1994	Soil	2	U		2
PENTACHLOROPHENOL	SVOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8270	10/10/1994	Soil	3	U		3
PENTACHLOROPHENOL	SVOC	Drum Accumulation Area	94575215SL	SS 4	2'	8270	10/10/1994	Soil	2	U		2

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
PENTACHLOROPHENOL	SVOC	Drum Accumulation Area	94575216SL	SS 3	2'	8270	10/10/1994	Soil	2	U		2
PENTACHLOROPHENOL	SVOC	Drum Accumulation Area	94575217SL	SS 2	2'	8270	10/10/1994	Soil	2	U		2
PENTACHLOROPHENOL	SVOC	Drum Accumulation Area	94575218SL	SS 1	2'	8270	10/10/1994	Soil	2	U		2
PENTACHLOROPHENOL	SVOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8270	11/03/1994	Soil	2	U		2
PENTACHLOROPHENOL	SVOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8270	11/03/1994	Soil	2	U		2
PENTACHLOROPHENOL	SVOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8270	11/07/1994	Soil	2	U		2
PENTACHLOROPHENOL	SVOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8270	11/09/1994	Soil	2	U		2
PENTACHLOROPHENOL	SVOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8270	11/11/1994	Soil	2	U		2
PENTACHLOROPHENOL	SVOC	965752BH01	96575225SL	AP-3785	5	8270	10/02/1996	Soil	0.02	U	0.02	0.02
PENTACHLOROPHENOL	SVOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
PENTACHLOROPHENOL	SVOC	965752BH03	96575233SL	AP-3787	5	8270	10/03/1996	Soil	0.02	U	0.02	0.02
PENTACHLOROPHENOL	SVOC	965752BH04	96575238SL	AP-3788	2.5	8270	10/03/1996	Soil	0.02	U	0.02	0.02
PENTACHLOROPHENOL	SVOC	965752BH04	96575239SL-AVG	AP-3788	5	8270	10/03/1996	Soil	0.02	U	0.02	0.02
PENTACHLOROPHENOL	SVOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8270	10/06/1994	Soil	2	U		2
PENTACHLOROPHENOL	SVOC	Drum Accumulation Area	94575203SL	SS 2	6"	8270	10/06/1994	Soil	2	U		2
PENTACHLOROPHENOL	SVOC	Drum Accumulation Area	94575204SL	SS 3	6"	8270	10/06/1994	Soil	2	U		2
PENTACHLOROPHENOL	SVOC	Drum Accumulation Area	94575205SL	SS 4	6"	8270	10/06/1994	Soil	2	U		2
PENTACHLOROPHENOL	SVOC	Drum Accumulation Area	94575206SL	SS 5	6"	8270	10/06/1994	Soil	2	U		2
PENTACHLOROPHENOL	SVOC	Drum Accumulation Area	94575207SL	SS 6	6"	8270	10/06/1994	Soil	2	U		2
PENTACHLOROPHENOL	SVOC	Drum Accumulation Area	94575208SL	SS 7	6"	8270	10/06/1994	Soil	2	U		2
PENTACHLOROPHENOL	SVOC	Drum Accumulation Area	94575209SL	SS 8	6"	8270	10/06/1994	Soil	2	U		2
PENTACHLOROPHENOL	SVOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8270	11/03/1994	Soil	4	U		4
PENTACHLOROPHENOL	SVOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8270	11/03/1994	Soil	4	U		4
PENTACHLOROPHENOL	SVOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8270	11/07/1994	Soil	2	U		2
PENTACHLOROPHENOL	SVOC	Cooling Pond	94575231SL	AP-3503	0-6'	8270	11/08/1994	Soil	2	U		2
PENTACHLOROPHENOL	SVOC	Cooling Pond	94575235SL	AP-3504	0-2'	8270	11/09/1994	Soil	2	U		2
PENTACHLOROPHENOL	SVOC	965752BH03	96575230SL	AP-3787	0	8270	10/03/1996	Soil	0.02	U	0.02	2
PENTACHLOROPHENOL	SVOC	965752BH04	96575236SL-AVG	AP-3788	0	8270	10/03/1996	Soil	0.02	U	0.02	2
PHENANTHRENE	SVOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
PHENANTHRENE	SVOC	Cooling Pond	94575242SD	SD-B	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
PHENANTHRENE	SVOC	Cooling Pond	94575243SD	SD-C	0-6"	8270	12/08/1994	Sediment	4	U		4
PHENANTHRENE	SVOC	Cooling Pond	94575244SD	SD-D	0-6"	8270	12/08/1994	Sediment	0.4	=		0.3
PHENANTHRENE	SVOC	Cooling Pond	94575245SD	SD-E	0-6"	8270	12/08/1994	Sediment	2.2	=		0.3
PHENANTHRENE	SVOC	Cooling Pond	94575246SD	SD-F	0-6"	8270	12/08/1994	Sediment	1.5	=		0.3
PHENANTHRENE	SVOC	Cooling Pond	94575247SD	SD-G	0-6"	8270	12/08/1994	Sediment	1.5	=		0.3
PHENANTHRENE	SVOC	Cooling Pond	94575248SD	SD-H	0-6"	8270	12/08/1994	Sediment	0.7	=		0.3
PHENANTHRENE	SVOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8270	09/25/1996	Sediment	0.4	U	0.4	3
PHENANTHRENE	SVOC	119 ft from DP	96575205SD	96-SD5	----	8270	09/25/1996	Sediment	0.3	J	0.09	0.7
PHENANTHRENE	SVOC	147 ft from DP	96575206SD	96-SD6	----	8270	09/25/1996	Sediment	0.3	=	0.04	0.3
PHENANTHRENE	SVOC	165 ft from DP	96575208SD	96-SD8	----	8270	09/25/1996	Sediment	0.9	=	0.04	0.3
PHENANTHRENE	SVOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8270	09/25/1996	Sediment	0.2	J	0.04	0.3
PHENANTHRENE	SVOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8270	09/25/1996	Sediment	0.1	J	0.08	0.7
PHENANTHRENE	SVOC	40 ft from DP	96575202SD	96-SD2	----	8270	09/25/1996	Sediment	3.5	=	0.09	0.7
PHENANTHRENE	SVOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8270	09/25/1996	Sediment	0.35	J	0.09	0.7
PHENANTHRENE	SVOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8270	09/25/1996	Sediment	0.04	U	0.04	0.3
PHENANTHRENE	SVOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8270	09/26/1996	Sediment	0.4	J	0.2	1.2
PHENANTHRENE	SVOC	Downstream end of 35-752 pond	975752007SD-AVG	96-SD007	0	SIM	10/21/1997	Sediment	0.3055	=	0.0008	0.005
PHENANTHRENE	SVOC	Drum Accumulation Area	94575210SL	SS 8	2'	8270	10/06/1994	Soil	0.3	U		0.3
PHENANTHRENE	SVOC	Drum Accumulation Area	94575211SL	SS 7	2'	8270	10/10/1994	Soil	0.3	U		0.3
PHENANTHRENE	SVOC	Drum Accumulation Area	94575212SL	SS 6	2'	8270	10/10/1994	Soil	0.3	U		0.3
PHENANTHRENE	SVOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8270	10/10/1994	Soil	0.5	U		0.5
PHENANTHRENE	SVOC	Drum Accumulation Area	94575215SL	SS 4	2'	8270	10/10/1994	Soil	0.3	U		0.3
PHENANTHRENE	SVOC	Drum Accumulation Area	94575216SL	SS 3	2'	8270	10/10/1994	Soil	0.3	U		0.3
PHENANTHRENE	SVOC	Drum Accumulation Area	94575217SL	SS 2	2'	8270	10/10/1994	Soil	0.3	U		0.3
PHENANTHRENE	SVOC	Drum Accumulation Area	94575218SL	SS 1	2'	8270	10/10/1994	Soil	0.3	U		0.3
PHENANTHRENE	SVOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8270	11/03/1994	Soil	0.3	U		0.3
PHENANTHRENE	SVOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8270	11/03/1994	Soil	0.3	U		0.3
PHENANTHRENE	SVOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8270	11/07/1994	Soil	0.3	U		0.3
PHENANTHRENE	SVOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8270	11/09/1994	Soil	0.3	U		0.3
PHENANTHRENE	SVOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8270	11/11/1994	Soil	0.3	U		0.3
PHENANTHRENE	SVOC	965752BH01	96575225SL	AP-3785	5	8270	10/02/1996	Soil	0.04	U	0.04	0.04
PHENANTHRENE	SVOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8270	10/03/1996	Soil	0.08	U	0.08	0.08

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
PHENANTHRENE	SVOC	965752BH03	96575233SL	AP-3787	5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
PHENANTHRENE	SVOC	965752BH04	96575238SL	AP-3788	2.5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
PHENANTHRENE	SVOC	965752BH04	96575239SL-AVG	AP-3788	5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
PHENANTHRENE	SVOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8270	10/06/1994	Soil	0.3	U		0.3
PHENANTHRENE	SVOC	Drum Accumulation Area	94575203SL	SS 2	6"	8270	10/06/1994	Soil	0.3	U		0.3
PHENANTHRENE	SVOC	Drum Accumulation Area	94575204SL	SS 3	6"	8270	10/06/1994	Soil	0.3	U		0.3
PHENANTHRENE	SVOC	Drum Accumulation Area	94575205SL	SS 4	6"	8270	10/06/1994	Soil	0.3	U		0.3
PHENANTHRENE	SVOC	Drum Accumulation Area	94575206SL	SS 5	6"	8270	10/06/1994	Soil	0.3	U		0.3
PHENANTHRENE	SVOC	Drum Accumulation Area	94575207SL	SS 6	6"	8270	10/06/1994	Soil	0.3	U		0.3
PHENANTHRENE	SVOC	Drum Accumulation Area	94575208SL	SS 7	6"	8270	10/06/1994	Soil	0.3	U		0.3
PHENANTHRENE	SVOC	Drum Accumulation Area	94575209SL	SS 8	6"	8270	10/06/1994	Soil	0.3	U		0.3
PHENANTHRENE	SVOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8270	11/03/1994	Soil	0.6	U		0.6
PHENANTHRENE	SVOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8270	11/03/1994	Soil	0.6	U		0.6
PHENANTHRENE	SVOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8270	11/07/1994	Soil	0.3	U		0.3
PHENANTHRENE	SVOC	Cooling Pond	94575231SL	AP-3503	0-6'	8270	11/08/1994	Soil	0.3	U		0.3
PHENANTHRENE	SVOC	Cooling Pond	94575235SL	AP-3504	0-2'	8270	11/09/1994	Soil	0.3	U		0.3
PHENANTHRENE	SVOC	965752BH03	96575230SL	AP-3787	0	8270	10/03/1996	Soil	0.1	J	0.04	0.3
PHENANTHRENE	SVOC	965752BH04	96575236SL-AVG	AP-3788	0	8270	10/03/1996	Soil	0.04	U	0.04	0.3
PHENOL	SVOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
PHENOL	SVOC	Cooling Pond	94575242SD	SD-B	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
PHENOL	SVOC	Cooling Pond	94575243SD	SD-C	0-6"	8270	12/08/1994	Sediment	4	U		4
PHENOL	SVOC	Cooling Pond	94575244SD	SD-D	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
PHENOL	SVOC	Cooling Pond	94575245SD	SD-E	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
PHENOL	SVOC	Cooling Pond	94575246SD	SD-F	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
PHENOL	SVOC	Cooling Pond	94575247SD	SD-G	0-6"	8270	12/08/1994	Sediment	0.8	U		0.8
PHENOL	SVOC	Cooling Pond	94575248SD	SD-H	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
PHENOL	SVOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8270	09/25/1996	Sediment	0.5	U	0.5	3
PHENOL	SVOC	119 ft from DP	96575205SD	96-SD5	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7
PHENOL	SVOC	147 ft from DP	96575206SD	96-SD6	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
PHENOL	SVOC	165 ft from DP	96575208SD	96-SD8	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
PHENOL	SVOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
PHENOL	SVOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8270	09/25/1996	Sediment	0.1	U	0.1	0.7
PHENOL	SVOC	40 ft from DP	96575202SD	96-SD2	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7
PHENOL	SVOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8270	09/25/1996	Sediment	0.2	U	0.2	0.7
PHENOL	SVOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8270	09/25/1996	Sediment	0.05	U	0.05	0.3
PHENOL	SVOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8270	09/26/1996	Sediment	0.2	U	0.2	1.2
PHENOL	SVOC	Drum Accumulation Area	94575210SL	SS 8	2'	8270	10/06/1994	Soil	0.3	U		0.3
PHENOL	SVOC	Drum Accumulation Area	94575211SL	SS 7	2'	8270	10/10/1994	Soil	0.3	U		0.3
PHENOL	SVOC	Drum Accumulation Area	94575212SL	SS 6	2'	8270	10/10/1994	Soil	0.3	U		0.3
PHENOL	SVOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8270	10/10/1994	Soil	0.5	U		0.5
PHENOL	SVOC	Drum Accumulation Area	94575215SL	SS 4	2'	8270	10/10/1994	Soil	0.3	U		0.3
PHENOL	SVOC	Drum Accumulation Area	94575216SL	SS 3	2'	8270	10/10/1994	Soil	0.3	U		0.3
PHENOL	SVOC	Drum Accumulation Area	94575217SL	SS 2	2'	8270	10/10/1994	Soil	0.3	U		0.3
PHENOL	SVOC	Drum Accumulation Area	94575218SL	SS 1	2'	8270	10/10/1994	Soil	0.3	U		0.3
PHENOL	SVOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8270	11/03/1994	Soil	0.3	U		0.3
PHENOL	SVOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8270	11/03/1994	Soil	0.3	U		0.3
PHENOL	SVOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8270	11/07/1994	Soil	0.3	U		0.3
PHENOL	SVOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8270	11/09/1994	Soil	0.3	U		0.3
PHENOL	SVOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8270	11/11/1994	Soil	0.3	U		0.3
PHENOL	SVOC	965752BH01	96575225SL	AP-3785	5	8270	10/02/1996	Soil	0.05	U	0.05	0.05
PHENOL	SVOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8270	10/03/1996	Soil	0.1	U	0.1	0.1
PHENOL	SVOC	965752BH03	96575233SL	AP-3787	5	8270	10/03/1996	Soil	0.05	U	0.05	0.05
PHENOL	SVOC	965752BH04	96575238SL	AP-3788	2.5	8270	10/03/1996	Soil	0.05	U	0.05	0.05
PHENOL	SVOC	965752BH04	96575239SL-AVG	AP-3788	5	8270	10/03/1996	Soil	0.05	U	0.05	0.05
PHENOL	SVOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8270	10/06/1994	Soil	0.3	U		0.3
PHENOL	SVOC	Drum Accumulation Area	94575203SL	SS 2	6"	8270	10/06/1994	Soil	0.3	U		0.3
PHENOL	SVOC	Drum Accumulation Area	94575204SL	SS 3	6"	8270	10/06/1994	Soil	0.3	U		0.3
PHENOL	SVOC	Drum Accumulation Area	94575205SL	SS 4	6"	8270	10/06/1994	Soil	0.3	U		0.3
PHENOL	SVOC	Drum Accumulation Area	94575206SL	SS 5	6"	8270	10/06/1994	Soil	0.3	U		0.3
PHENOL	SVOC	Drum Accumulation Area	94575207SL	SS 6	6"	8270	10/06/1994	Soil	0.3	U		0.3
PHENOL	SVOC	Drum Accumulation Area	94575208SL	SS 7	6"	8270	10/06/1994	Soil	0.3	U		0.3
PHENOL	SVOC	Drum Accumulation Area	94575209SL	SS 8	6"	8270	10/06/1994	Soil	0.3	U		0.3

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
PHENOL	SVOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8270	11/03/1994	Soil	0.6	U		0.6
PHENOL	SVOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8270	11/03/1994	Soil	0.6	U		0.6
PHENOL	SVOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8270	11/07/1994	Soil	0.3	U		0.3
PHENOL	SVOC	Cooling Pond	94575231SL	AP-3503	0-6'	8270	11/08/1994	Soil	0.3	U		0.3
PHENOL	SVOC	Cooling Pond	94575235SL	AP-3504	0-2'	8270	11/09/1994	Soil	0.3	U		0.3
PHENOL	SVOC	965752BH03	96575230SL	AP-3787	0	8270	10/03/1996	Soil	0.05	U	0.05	0.3
PHENOL	SVOC	965752BH04	96575236SL-AVG	AP-3788	0	8270	10/03/1996	Soil	0.05	U	0.05	0.3
POTASSIUM	METAL	Drum Accumulation Area	94575210SL	SS 8	2'	METALS	10/06/1994	Soil	570	=		400
POTASSIUM	METAL	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	METALS	10/06/1994	Soil	515	=		400
POTASSIUM	METAL	Drum Accumulation Area	94575203SL	SS 2	6"	METALS	10/06/1994	Soil	440	=		400
POTASSIUM	METAL	Drum Accumulation Area	94575204SL	SS 3	6"	METALS	10/06/1994	Soil	590	=		400
POTASSIUM	METAL	Drum Accumulation Area	94575205SL	SS 4	6"	METALS	10/06/1994	Soil	400	U		400
POTASSIUM	METAL	Drum Accumulation Area	94575206SL	SS 5	6"	METALS	10/06/1994	Soil	400	U		400
POTASSIUM	METAL	Drum Accumulation Area	94575207SL	SS 6	6"	METALS	10/06/1994	Soil	450	=		400
POTASSIUM	METAL	Drum Accumulation Area	94575208SL	SS 7	6"	METALS	10/06/1994	Soil	610	=		400
POTASSIUM	METAL	Drum Accumulation Area	94575209SL	SS 8	6"	METALS	10/06/1994	Soil	530	=		400
PYRENE	SVOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
PYRENE	SVOC	Cooling Pond	94575242SD	SD-B	0-6"	8270	12/08/1994	Sediment	0.3	U		0.3
PYRENE	SVOC	Cooling Pond	94575243SD	SD-C	0-6"	8270	12/08/1994	Sediment	4	U		4
PYRENE	SVOC	Cooling Pond	94575244SD	SD-D	0-6"	8270	12/08/1994	Sediment	0.4	=		0.3
PYRENE	SVOC	Cooling Pond	94575245SD	SD-E	0-6"	8270	12/08/1994	Sediment	0.7	=		0.3
PYRENE	SVOC	Cooling Pond	94575246SD	SD-F	0-6"	8270	12/08/1994	Sediment	1.9	=		0.3
PYRENE	SVOC	Cooling Pond	94575247SD	SD-G	0-6"	8270	12/08/1994	Sediment	0.8	U		0.8
PYRENE	SVOC	Cooling Pond	94575248SD	SD-H	0-6"	8270	12/08/1994	Sediment	5.4	=		0.3
PYRENE	SVOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8270	09/25/1996	Sediment	0.4	J	0.4	3
PYRENE	SVOC	119 ft from DP	96575205SD	96-SD5	----	8270	09/25/1996	Sediment	0.5	J	0.09	0.7
PYRENE	SVOC	147 ft from DP	96575206SD	96-SD6	----	8270	09/25/1996	Sediment	0.4	=	0.04	0.3
PYRENE	SVOC	165 ft from DP	96575208SD	96-SD8	----	8270	09/25/1996	Sediment	1.3	=	0.04	0.3
PYRENE	SVOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8270	09/25/1996	Sediment	0.4	=	0.04	0.3
PYRENE	SVOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8270	09/25/1996	Sediment	0.3	J	0.08	0.7
PYRENE	SVOC	40 ft from DP	96575202SD	96-SD2	----	8270	09/25/1996	Sediment	4.3	=	0.09	0.7
PYRENE	SVOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8270	09/25/1996	Sediment	0.6	J	0.09	0.7
PYRENE	SVOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8270	09/25/1996	Sediment	0.04	U	0.04	0.3
PYRENE	SVOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8270	09/26/1996	Sediment	0.8	J	0.2	1.2
PYRENE	SVOC	Downstream end of 35-752 pond	975752007SD-AVG	96-SD007	0	SIM	10/21/1997	Sediment	0.625	=	0.0008	0.005
PYRENE	SVOC	Drum Accumulation Area	94575210SL	SS 8	2'	8270	10/06/1994	Soil	0.3	U		0.3
PYRENE	SVOC	Drum Accumulation Area	94575211SL	SS 7	2'	8270	10/10/1994	Soil	0.3	U		0.3
PYRENE	SVOC	Drum Accumulation Area	94575212SL	SS 6	2'	8270	10/10/1994	Soil	0.3	U		0.3
PYRENE	SVOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8270	10/10/1994	Soil	0.5	U		0.5
PYRENE	SVOC	Drum Accumulation Area	94575215SL	SS 4	2'	8270	10/10/1994	Soil	0.3	U		0.3
PYRENE	SVOC	Drum Accumulation Area	94575216SL	SS 3	2'	8270	10/10/1994	Soil	0.3	U		0.3
PYRENE	SVOC	Drum Accumulation Area	94575217SL	SS 2	2'	8270	10/10/1994	Soil	0.3	U		0.3
PYRENE	SVOC	Drum Accumulation Area	94575218SL	SS 1	2'	8270	10/10/1994	Soil	0.3	U		0.3
PYRENE	SVOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8270	11/03/1994	Soil	0.69	=		0.3
PYRENE	SVOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8270	11/03/1994	Soil	0.3	U		0.3
PYRENE	SVOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8270	11/07/1994	Soil	0.3	U		0.3
PYRENE	SVOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8270	11/09/1994	Soil	0.3	U		0.3
PYRENE	SVOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8270	11/11/1994	Soil	0.3	U		0.3
PYRENE	SVOC	965752BH01	96575225SL	AP-3785	5	8270	10/02/1996	Soil	0.04	U	0.04	0.04
PYRENE	SVOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8270	10/03/1996	Soil	0.1	J	0.08	0.08
PYRENE	SVOC	965752BH03	96575233SL	AP-3787	5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
PYRENE	SVOC	965752BH04	96575238SL	AP-3788	2.5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
PYRENE	SVOC	965752BH04	96575239SL-AVG	AP-3788	5	8270	10/03/1996	Soil	0.04	U	0.04	0.04
PYRENE	SVOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8270	10/06/1994	Soil	0.3	U		0.3
PYRENE	SVOC	Drum Accumulation Area	94575203SL	SS 2	6"	8270	10/06/1994	Soil	0.3	U		0.3
PYRENE	SVOC	Drum Accumulation Area	94575204SL	SS 3	6"	8270	10/06/1994	Soil	0.3	U		0.3
PYRENE	SVOC	Drum Accumulation Area	94575205SL	SS 4	6"	8270	10/06/1994	Soil	0.3	U		0.3
PYRENE	SVOC	Drum Accumulation Area	94575206SL	SS 5	6"	8270	10/06/1994	Soil	0.3	U		0.3
PYRENE	SVOC	Drum Accumulation Area	94575207SL	SS 6	6"	8270	10/06/1994	Soil	0.3	U		0.3
PYRENE	SVOC	Drum Accumulation Area	94575208SL	SS 7	6"	8270	10/06/1994	Soil	0.3	U		0.3
PYRENE	SVOC	Drum Accumulation Area	94575209SL	SS 8	6"	8270	10/06/1994	Soil	0.7	=		0.3
PYRENE	SVOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8270	11/03/1994	Soil	0.6	U		0.6

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Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
PYRENE	SVOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8270	11/03/1994	Soil	0.6	U		0.6
PYRENE	SVOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8270	11/07/1994	Soil	0.3	U		0.3
PYRENE	SVOC	Cooling Pond	94575231SL	AP-3503	0-6'	8270	11/08/1994	Soil	0.3	U		0.3
PYRENE	SVOC	Cooling Pond	94575235SL	AP-3504	0-2'	8270	11/09/1994	Soil	0.3	U		0.3
PYRENE	SVOC	965752BH03	96575230SL	AP-3787	0	8270	10/03/1996	Soil	0.3	=	0.04	0.3
PYRENE	SVOC	965752BH04	96575236SL-AVG	AP-3788	0	8270	10/03/1996	Soil	0.04	U	0.04	0.3
SEC-BUTYLBENZENE	VOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
SEC-BUTYLBENZENE	VOC	Cooling Pond	94575242SD	SD-B	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
SEC-BUTYLBENZENE	VOC	Cooling Pond	94575243SD	SD-C	0-6"	8260	12/08/1994	Sediment	0.04	U		0.04
SEC-BUTYLBENZENE	VOC	Cooling Pond	94575244SD	SD-D	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
SEC-BUTYLBENZENE	VOC	Cooling Pond	94575245SD	SD-E	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
SEC-BUTYLBENZENE	VOC	Cooling Pond	94575246SD	SD-F	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
SEC-BUTYLBENZENE	VOC	Cooling Pond	94575247SD	SD-G	0-6"	8260	12/08/1994	Sediment	0.04	U		0.04
SEC-BUTYLBENZENE	VOC	Cooling Pond	94575248SD	SD-H	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
SEC-BUTYLBENZENE	VOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.04
SEC-BUTYLBENZENE	VOC	119 ft from DP	96575205SD	96-SD5	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.04
SEC-BUTYLBENZENE	VOC	147 ft from DP	96575206SD	96-SD6	----	8260	09/25/1996	Sediment	0.0007	U	0.0007	0.02
SEC-BUTYLBENZENE	VOC	165 ft from DP	96575208SD	96-SD8	----	8260	09/25/1996	Sediment	0.0007	U	0.0007	0.02
SEC-BUTYLBENZENE	VOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8260	09/25/1996	Sediment	0.0007	U	0.0007	0.02
SEC-BUTYLBENZENE	VOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8260	09/25/1996	Sediment	0.003	U	0.003	0.06
SEC-BUTYLBENZENE	VOC	40 ft from DP	96575202SD	96-SD2	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.04
SEC-BUTYLBENZENE	VOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.04
SEC-BUTYLBENZENE	VOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8260	09/25/1996	Sediment	0.0007	U	0.0007	0.02
SEC-BUTYLBENZENE	VOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8260	09/26/1996	Sediment	0.002	U	0.002	0.04
SEC-BUTYLBENZENE	VOC	Drum Accumulation Area	94575210SL	SS 8	2'	8260	10/06/1994	Soil	0.02	U		0.02
SEC-BUTYLBENZENE	VOC	Drum Accumulation Area	94575211SL	SS 7	2'	8260	10/10/1994	Soil	0.02	U		0.02
SEC-BUTYLBENZENE	VOC	Drum Accumulation Area	94575212SL	SS 6	2'	8260	10/10/1994	Soil	0.02	U		0.02
SEC-BUTYLBENZENE	VOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8260	10/10/1994	Soil	0.02	U		0.02
SEC-BUTYLBENZENE	VOC	Drum Accumulation Area	94575215SL	SS 4	2'	8260	10/10/1994	Soil	0.02	U		0.02
SEC-BUTYLBENZENE	VOC	Drum Accumulation Area	94575216SL	SS 3	2'	8260	10/10/1994	Soil	0.02	U		0.02
SEC-BUTYLBENZENE	VOC	Drum Accumulation Area	94575217SL	SS 2	2'	8260	10/10/1994	Soil	0.02	U		0.02
SEC-BUTYLBENZENE	VOC	Drum Accumulation Area	94575218SL	SS 1	2'	8260	10/10/1994	Soil	0.02	U		0.02
SEC-BUTYLBENZENE	VOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8260	11/03/1994	Soil	0.02	U		0.02
SEC-BUTYLBENZENE	VOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8260	11/03/1994	Soil	0.02	U		0.02
SEC-BUTYLBENZENE	VOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8260	11/07/1994	Soil	0.02	U		0.02
SEC-BUTYLBENZENE	VOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8260	11/09/1994	Soil	0.02	U		0.02
SEC-BUTYLBENZENE	VOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8260	11/11/1994	Soil	0.02	U		0.02
SEC-BUTYLBENZENE	VOC	965752BH01	96575225SL	AP-3785	5	8260	10/02/1996	Soil	0.0007	U	0.0007	0.0007
SEC-BUTYLBENZENE	VOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8260	10/03/1996	Soil	0.0007	U	0.0007	0.0007
SEC-BUTYLBENZENE	VOC	965752BH04	96575238SL	AP-3788	2.5	8260	10/03/1996	Soil	0.0007	U	0.0007	0.0007
SEC-BUTYLBENZENE	VOC	965752BH04	96575239SL-AVG	AP-3788	5	8260	10/03/1996	Soil	0.0007	U	0.0007	0.0007
SEC-BUTYLBENZENE	VOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8260	10/06/1994	Soil	0.02	U		0.02
SEC-BUTYLBENZENE	VOC	Drum Accumulation Area	94575203SL	SS 2	6"	8260	10/06/1994	Soil	0.02	U		0.02
SEC-BUTYLBENZENE	VOC	Drum Accumulation Area	94575204SL	SS 3	6"	8260	10/06/1994	Soil	0.02	U		0.02
SEC-BUTYLBENZENE	VOC	Drum Accumulation Area	94575205SL	SS 4	6"	8260	10/06/1994	Soil	0.02	U		0.02
SEC-BUTYLBENZENE	VOC	Drum Accumulation Area	94575206SL	SS 5	6"	8260	10/06/1994	Soil	0.02	U		0.02
SEC-BUTYLBENZENE	VOC	Drum Accumulation Area	94575207SL	SS 6	6"	8260	10/06/1994	Soil	0.02	U		0.02
SEC-BUTYLBENZENE	VOC	Drum Accumulation Area	94575208SL	SS 7	6"	8260	10/06/1994	Soil	0.02	U		0.02
SEC-BUTYLBENZENE	VOC	Drum Accumulation Area	94575209SL	SS 8	6"	8260	10/06/1994	Soil	0.02	U		0.02
SEC-BUTYLBENZENE	VOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8260	11/03/1994	Soil	0.02	U		0.02
SEC-BUTYLBENZENE	VOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8260	11/03/1994	Soil	0.02	U		0.02
SEC-BUTYLBENZENE	VOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8260	11/07/1994	Soil	0.02	U		0.02
SEC-BUTYLBENZENE	VOC	Cooling Pond	94575231SL	AP-3503	0-6'	8260	11/08/1994	Soil	0.02	U		0.02
SEC-BUTYLBENZENE	VOC	Cooling Pond	94575235SL	AP-3504	0-2'	8260	11/09/1994	Soil	0.02	U		0.02
SEC-BUTYLBENZENE	VOC	965752BH03	96575230SL	AP-3787	0	8260	10/03/1996	Soil	0.0007	U	0.0007	0.02
SEC-BUTYLBENZENE	VOC	965752BH04	96575236SL-AVG	AP-3788	0	8260	10/03/1996	Soil	0.0007	U	0.0007	0.02
SELENIUM	METAL	Cooling Pond	94575240SD-AVG	SD-A	0-6"	METALS	12/08/1994	Sediment	1	U		1
SELENIUM	METAL	Cooling Pond	94575242SD	SD-B	0-6"	METALS	12/08/1994	Sediment	1	U		1
SELENIUM	METAL	Cooling Pond	94575243SD	SD-C	0-6"	METALS	12/08/1994	Sediment	1	U		1
SELENIUM	METAL	Cooling Pond	94575244SD	SD-D	0-6"	METALS	12/08/1994	Sediment	1	U		1
SELENIUM	METAL	Cooling Pond	94575245SD	SD-E	0-6"	METALS	12/08/1994	Sediment	1	U		1
SELENIUM	METAL	Cooling Pond	94575246SD	SD-F	0-6"	METALS	12/08/1994	Sediment	1	U		1

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
SELENIUM	METAL	Cooling Pond	94575247SD	SD-G	0-6"	METALS	12/08/1994	Sediment	1	U		1
SELENIUM	METAL	Cooling Pond	94575248SD	SD-H	0-6"	METALS	12/08/1994	Sediment	1	U		1
SELENIUM	METAL	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	METALS	09/25/1996	Sediment	0.6	U	0.6	2
SELENIUM	METAL	119 ft from DP	96575205SD	96-SD5	----	METALS	09/25/1996	Sediment	0.8	U	0.8	2
SELENIUM	METAL	147 ft from DP	96575206SD	96-SD6	----	METALS	09/25/1996	Sediment	0.4	U	0.4	1
SELENIUM	METAL	165 ft from DP	96575208SD	96-SD8	----	METALS	09/25/1996	Sediment	0.6	U	0.6	2
SELENIUM	METAL	171 ft from DP (east side)	96575209SD	96-SD9	----	METALS	09/25/1996	Sediment	0.6	U	0.6	2
SELENIUM	METAL	171 ft from DP (west side)	96575207SD	96-SD7	----	METALS	09/25/1996	Sediment	0.8	U	0.8	2
SELENIUM	METAL	40 ft from DP	96575202SD	96-SD2	----	METALS	09/25/1996	Sediment	0.8	U	0.8	2
SELENIUM	METAL	79 ft from DP	96575203SD-AVG	96-SD3	----	METALS	09/25/1996	Sediment	0.8	U	0.8	2
SELENIUM	METAL	Discharge pipe (DP)	96575201SD	96-SD1	----	METALS	09/25/1996	Sediment	0.4	U	0.4	1
SELENIUM	METAL	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	METALS	09/26/1996	Sediment	0.8	U	0.8	2
SELENIUM	METAL	Drum Accumulation Area	94575210SL	SS 8	2'	METALS	10/06/1994	Soil	1	UJ		1
SELENIUM	METAL	Drum Accumulation Area	94575211SL	SS 7	2'	METALS	10/10/1994	Soil	1	U		1
SELENIUM	METAL	Drum Accumulation Area	94575212SL	SS 6	2'	METALS	10/10/1994	Soil	1	U		1
SELENIUM	METAL	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	METALS	10/10/1994	Soil	1	U		1
SELENIUM	METAL	Drum Accumulation Area	94575215SL	SS 4	2'	METALS	10/10/1994	Soil	1	U		1
SELENIUM	METAL	Drum Accumulation Area	94575216SL	SS 3	2'	METALS	10/10/1994	Soil	1	U		1
SELENIUM	METAL	Drum Accumulation Area	94575217SL	SS 2	2'	METALS	10/10/1994	Soil	1	U		1
SELENIUM	METAL	Drum Accumulation Area	94575218SL	SS 1	2'	METALS	10/10/1994	Soil	1	U		1
SELENIUM	METAL	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	METALS	11/03/1994	Soil	1	UJ		1
SELENIUM	METAL	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	METALS	11/03/1994	Soil	1	UJ		1
SELENIUM	METAL	Cooling Pond	94575229SL	AP-3502	4'-6'	METALS	11/07/1994	Soil	1	U		1
SELENIUM	METAL	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	METALS	11/09/1994	Soil	1	U		1
SELENIUM	METAL	Cooling Pond	94575240SL	AP-3501	5'-7'	METALS	11/11/1994	Soil	1	U		1
SELENIUM	METAL	965752BH03	96575231SL-AVG	AP-3787	2.5	METALS	10/03/1996	Soil	0.4	U	0.4	0.4
SELENIUM	METAL	965752BH03	96575233SL	AP-3787	5	METALS	10/03/1996	Soil	0.4	U	0.4	0.4
SELENIUM	METAL	965752BH04	96575238SL	AP-3788	2.5	METALS	10/03/1996	Soil	0.4	U	0.4	0.4
SELENIUM	METAL	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	METALS	10/06/1994	Soil	1	UJ		1
SELENIUM	METAL	Drum Accumulation Area	94575203SL	SS 2	6"	METALS	10/06/1994	Soil	1	UJ		1
SELENIUM	METAL	Drum Accumulation Area	94575204SL	SS 3	6"	METALS	10/06/1994	Soil	1	UJ		1
SELENIUM	METAL	Drum Accumulation Area	94575205SL	SS 4	6"	METALS	10/06/1994	Soil	1	UJ		1
SELENIUM	METAL	Drum Accumulation Area	94575206SL	SS 5	6"	METALS	10/06/1994	Soil	1	UJ		1
SELENIUM	METAL	Drum Accumulation Area	94575207SL	SS 6	6"	METALS	10/06/1994	Soil	1	UJ		1
SELENIUM	METAL	Drum Accumulation Area	94575208SL	SS 7	6"	METALS	10/06/1994	Soil	1	UJ		1
SELENIUM	METAL	Drum Accumulation Area	94575209SL	SS 8	6"	METALS	10/06/1994	Soil	1	UJ		1
SELENIUM	METAL	Drum Accumulation Area	94575219SL	AP-3505	0-4'	METALS	11/03/1994	Soil	1	UJ		1
SELENIUM	METAL	Drum Accumulation Area	94575223SL	AP-3506	0-2'	METALS	11/03/1994	Soil	1	UJ		1
SELENIUM	METAL	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	METALS	11/07/1994	Soil	1	U		1
SELENIUM	METAL	Cooling Pond	94575231SL	AP-3503	0-6'	METALS	11/08/1994	Soil	1	U		1
SELENIUM	METAL	Cooling Pond	94575235SL	AP-3504	0-2'	METALS	11/09/1994	Soil	1	U		1
SELENIUM	METAL	965752BH03	96575230SL	AP-3787	0	METALS	10/03/1996	Soil	0.4	U	0.4	1
SELENIUM	METAL	965752BH04	96575236SL-AVG	AP-3788	0	METALS	10/03/1996	Soil	0.4	U	0.4	1
SILVER	METAL	Cooling Pond	94575240SD-AVG	SD-A	0-6"	METALS	12/08/1994	Sediment	2	U		2
SILVER	METAL	Cooling Pond	94575242SD	SD-B	0-6"	METALS	12/08/1994	Sediment	2	U		2
SILVER	METAL	Cooling Pond	94575243SD	SD-C	0-6"	METALS	12/08/1994	Sediment	2	U		2
SILVER	METAL	Cooling Pond	94575244SD	SD-D	0-6"	METALS	12/08/1994	Sediment	2	U		2
SILVER	METAL	Cooling Pond	94575245SD	SD-E	0-6"	METALS	12/08/1994	Sediment	2	U		2
SILVER	METAL	Cooling Pond	94575246SD	SD-F	0-6"	METALS	12/08/1994	Sediment	2	U		2
SILVER	METAL	Cooling Pond	94575247SD	SD-G	0-6"	METALS	12/08/1994	Sediment	2	U		2
SILVER	METAL	Cooling Pond	94575248SD	SD-H	0-6"	METALS	12/08/1994	Sediment	2	U		2
SILVER	METAL	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	METALS	09/25/1996	Sediment	0.4	U	0.4	2
SILVER	METAL	119 ft from DP	96575205SD	96-SD5	----	METALS	09/25/1996	Sediment	0.4	U	0.4	2
SILVER	METAL	147 ft from DP	96575206SD	96-SD6	----	METALS	09/25/1996	Sediment	0.4	U	0.4	2
SILVER	METAL	165 ft from DP	96575208SD	96-SD8	----	METALS	09/25/1996	Sediment	0.4	U	0.4	2
SILVER	METAL	171 ft from DP (east side)	96575209SD	96-SD9	----	METALS	09/25/1996	Sediment	0.4	U	0.4	2
SILVER	METAL	171 ft from DP (west side)	96575207SD	96-SD7	----	METALS	09/25/1996	Sediment	0.4	U	0.4	2
SILVER	METAL	40 ft from DP	96575202SD	96-SD2	----	METALS	09/25/1996	Sediment	0.4	U	0.4	2
SILVER	METAL	79 ft from DP	96575203SD-AVG	96-SD3	----	METALS	09/25/1996	Sediment	0.4	U	0.4	2
SILVER	METAL	Discharge pipe (DP)	96575201SD	96-SD1	----	METALS	09/25/1996	Sediment	0.4	U	0.4	2
SILVER	METAL	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	METALS	09/26/1996	Sediment	0.6	J	0.4	2
SILVER	METAL	Drum Accumulation Area	94575210SL	SS 8	2'	METALS	10/06/1994	Soil	2	U		2

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
SILVER	METAL	Drum Accumulation Area	94575211SL	SS 7	2'	METALS	10/10/1994	Soil	2	U		2
SILVER	METAL	Drum Accumulation Area	94575212SL	SS 6	2'	METALS	10/10/1994	Soil	2	U		2
SILVER	METAL	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	METALS	10/10/1994	Soil	2	U		2
SILVER	METAL	Drum Accumulation Area	94575215SL	SS 4	2'	METALS	10/10/1994	Soil	2	U		2
SILVER	METAL	Drum Accumulation Area	94575216SL	SS 3	2'	METALS	10/10/1994	Soil	2	U		2
SILVER	METAL	Drum Accumulation Area	94575217SL	SS 2	2'	METALS	10/10/1994	Soil	2	U		2
SILVER	METAL	Drum Accumulation Area	94575218SL	SS 1	2'	METALS	10/10/1994	Soil	2	U		2
SILVER	METAL	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	METALS	11/03/1994	Soil	2	U		2
SILVER	METAL	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	METALS	11/03/1994	Soil	2	U		2
SILVER	METAL	Cooling Pond	94575229SL	AP-3502	4'-6'	METALS	11/07/1994	Soil	2	U		2
SILVER	METAL	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	METALS	11/09/1994	Soil	2	U		2
SILVER	METAL	Cooling Pond	94575240SL	AP-3501	5'-7'	METALS	11/11/1994	Soil	2	U		2
SILVER	METAL	965752BH03	96575231SL-AVG	AP-3787	2.5	METALS	10/03/1996	Soil	0.4	U	0.4	0.4
SILVER	METAL	965752BH03	96575233SL	AP-3787	5	METALS	10/03/1996	Soil	0.4	U	0.4	0.4
SILVER	METAL	965752BH04	96575238SL	AP-3788	2.5	METALS	10/03/1996	Soil	0.4	U	0.4	0.4
SILVER	METAL	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	METALS	10/06/1994	Soil	2	U		2
SILVER	METAL	Drum Accumulation Area	94575203SL	SS 2	6"	METALS	10/06/1994	Soil	2	U		2
SILVER	METAL	Drum Accumulation Area	94575204SL	SS 3	6"	METALS	10/06/1994	Soil	2	U		2
SILVER	METAL	Drum Accumulation Area	94575205SL	SS 4	6"	METALS	10/06/1994	Soil	2	U		2
SILVER	METAL	Drum Accumulation Area	94575206SL	SS 5	6"	METALS	10/06/1994	Soil	2	U		2
SILVER	METAL	Drum Accumulation Area	94575207SL	SS 6	6"	METALS	10/06/1994	Soil	2	U		2
SILVER	METAL	Drum Accumulation Area	94575208SL	SS 7	6"	METALS	10/06/1994	Soil	2	U		2
SILVER	METAL	Drum Accumulation Area	94575209SL	SS 8	6"	METALS	10/06/1994	Soil	2	U		2
SILVER	METAL	Drum Accumulation Area	94575219SL	AP-3505	0-4'	METALS	11/03/1994	Soil	2	U		2
SILVER	METAL	Drum Accumulation Area	94575223SL	AP-3506	0-2'	METALS	11/03/1994	Soil	2	U		2
SILVER	METAL	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	METALS	11/07/1994	Soil	2	U		2
SILVER	METAL	Cooling Pond	94575231SL	AP-3503	0-6'	METALS	11/08/1994	Soil	2	U		2
SILVER	METAL	Cooling Pond	94575235SL	AP-3504	0-2'	METALS	11/09/1994	Soil	2	U		2
SILVER	METAL	965752BH03	96575230SL	AP-3787	0	METALS	10/03/1996	Soil	0.4	U	0.4	2
SILVER	METAL	965752BH04	96575236SL-AVG	AP-3788	0	METALS	10/03/1996	Soil	0.4	U	0.4	2
SILVEX (2,4,5-TP)	SVOC	Drum Accumulation Area	94575210SL	SS 8	2'	8150	10/06/1994	Soil	0.05	U		0.05
SILVEX (2,4,5-TP)	SVOC	Drum Accumulation Area	94575211SL	SS 7	2'	8150	10/10/1994	Soil	0.05	U		0.05
SILVEX (2,4,5-TP)	SVOC	Drum Accumulation Area	94575212SL	SS 6	2'	8150	10/10/1994	Soil	0.05	U		0.05
SILVEX (2,4,5-TP)	SVOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8150	10/10/1994	Soil	0.05	U		0.05
SILVEX (2,4,5-TP)	SVOC	Drum Accumulation Area	94575215SL	SS 4	2'	8150	10/10/1994	Soil	0.05	U		0.05
SILVEX (2,4,5-TP)	SVOC	Drum Accumulation Area	94575216SL	SS 3	2'	8150	10/10/1994	Soil	0.05	U		0.05
SILVEX (2,4,5-TP)	SVOC	Drum Accumulation Area	94575217SL	SS 2	2'	8150	10/10/1994	Soil	0.05	U		0.05
SILVEX (2,4,5-TP)	SVOC	Drum Accumulation Area	94575218SL	SS 1	2'	8150	10/10/1994	Soil	0.05	U		0.05
SILVEX (2,4,5-TP)	SVOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8150	11/03/1994	Soil	0.05	U		0.05
SILVEX (2,4,5-TP)	SVOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8150	11/03/1994	Soil	0.05	U		0.05
SILVEX (2,4,5-TP)	SVOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8150	11/07/1994	Soil	0.05	U		0.05
SILVEX (2,4,5-TP)	SVOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8150	11/09/1994	Soil	0.05	U		0.05
SILVEX (2,4,5-TP)	SVOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8150	11/11/1994	Soil	0.05	U		0.05
SILVEX (2,4,5-TP)	SVOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8150	10/06/1994	Soil	0.05	U		0.05
SILVEX (2,4,5-TP)	SVOC	Drum Accumulation Area	94575203SL	SS 2	6"	8150	10/06/1994	Soil	0.05	U		0.05
SILVEX (2,4,5-TP)	SVOC	Drum Accumulation Area	94575204SL	SS 3	6"	8150	10/06/1994	Soil	0.05	U		0.05
SILVEX (2,4,5-TP)	SVOC	Drum Accumulation Area	94575205SL	SS 4	6"	8150	10/06/1994	Soil	0.05	U		0.05
SILVEX (2,4,5-TP)	SVOC	Drum Accumulation Area	94575206SL	SS 5	6"	8150	10/06/1994	Soil	0.05	U		0.05
SILVEX (2,4,5-TP)	SVOC	Drum Accumulation Area	94575207SL	SS 6	6"	8150	10/06/1994	Soil	0.05	U		0.05
SILVEX (2,4,5-TP)	SVOC	Drum Accumulation Area	94575208SL	SS 7	6"	8150	10/06/1994	Soil	0.05	U		0.05
SILVEX (2,4,5-TP)	SVOC	Drum Accumulation Area	94575209SL	SS 8	6"	8150	10/06/1994	Soil	0.05	U		0.05
SILVEX (2,4,5-TP)	SVOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8150	11/03/1994	Soil	0.05	U		0.05
SILVEX (2,4,5-TP)	SVOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8150	11/03/1994	Soil	0.05	U		0.05
SILVEX (2,4,5-TP)	SVOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8150	11/07/1994	Soil	0.05	U		0.05
SILVEX (2,4,5-TP)	SVOC	Cooling Pond	94575231SL	AP-3503	0-6'	8150	11/08/1994	Soil	0.05	U		0.05
SILVEX (2,4,5-TP)	SVOC	Cooling Pond	94575235SL	AP-3504	0-2'	8150	11/09/1994	Soil	0.05	U		0.05
SODIUM	METAL	Drum Accumulation Area	94575210SL	SS 8	2'	METALS	10/06/1994	Soil	134	=		20
SODIUM	METAL	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	METALS	10/06/1994	Soil	140	=		20
SODIUM	METAL	Drum Accumulation Area	94575203SL	SS 2	6"	METALS	10/06/1994	Soil	108	=		20
SODIUM	METAL	Drum Accumulation Area	94575204SL	SS 3	6"	METALS	10/06/1994	Soil	171	=		20
SODIUM	METAL	Drum Accumulation Area	94575205SL	SS 4	6"	METALS	10/06/1994	Soil	116	=		20
SODIUM	METAL	Drum Accumulation Area	94575206SL	SS 5	6"	METALS	10/06/1994	Soil	65	=		20

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
SODIUM	METAL	Drum Accumulation Area	94575207SL	SS 6	6"	METALS	10/06/1994	Soil	111	=		20
SODIUM	METAL	Drum Accumulation Area	94575208SL	SS 7	6"	METALS	10/06/1994	Soil	116	=		20
SODIUM	METAL	Drum Accumulation Area	94575209SL	SS 8	6"	METALS	10/06/1994	Soil	112	=		20
STYRENE	VOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
STYRENE	VOC	Cooling Pond	94575242SD	SD-B	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
STYRENE	VOC	Cooling Pond	94575243SD	SD-C	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
STYRENE	VOC	Cooling Pond	94575244SD	SD-D	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
STYRENE	VOC	Cooling Pond	94575245SD	SD-E	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
STYRENE	VOC	Cooling Pond	94575246SD	SD-F	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
STYRENE	VOC	Cooling Pond	94575247SD	SD-G	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
STYRENE	VOC	Cooling Pond	94575248SD	SD-H	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
STYRENE	VOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.01
STYRENE	VOC	119 ft from DP	96575205SD	96-SD5	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.01
STYRENE	VOC	147 ft from DP	96575206SD	96-SD6	----	8260	09/25/1996	Sediment	0.001	U	0.001	0.005
STYRENE	VOC	165 ft from DP	96575208SD	96-SD8	----	8260	09/25/1996	Sediment	0.001	U	0.001	0.005
STYRENE	VOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8260	09/25/1996	Sediment	0.001	U	0.001	0.005
STYRENE	VOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8260	09/25/1996	Sediment	0.003	U	0.003	0.015
STYRENE	VOC	40 ft from DP	96575202SD	96-SD2	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.01
STYRENE	VOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.01
STYRENE	VOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8260	09/25/1996	Sediment	0.001	U	0.001	0.005
STYRENE	VOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8260	09/26/1996	Sediment	0.002	U	0.002	0.01
STYRENE	VOC	Drum Accumulation Area	94575210SL	SS 8	2'	8260	10/06/1994	Soil	0.005	U		0.005
STYRENE	VOC	Drum Accumulation Area	94575211SL	SS 7	2'	8260	10/10/1994	Soil	0.005	U		0.005
STYRENE	VOC	Drum Accumulation Area	94575212SL	SS 6	2'	8260	10/10/1994	Soil	0.005	U		0.005
STYRENE	VOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8260	10/10/1994	Soil	0.005	U		0.005
STYRENE	VOC	Drum Accumulation Area	94575215SL	SS 4	2'	8260	10/10/1994	Soil	0.005	U		0.005
STYRENE	VOC	Drum Accumulation Area	94575216SL	SS 3	2'	8260	10/10/1994	Soil	0.005	U		0.005
STYRENE	VOC	Drum Accumulation Area	94575217SL	SS 2	2'	8260	10/10/1994	Soil	0.005	U		0.005
STYRENE	VOC	Drum Accumulation Area	94575218SL	SS 1	2'	8260	10/10/1994	Soil	0.005	U		0.005
STYRENE	VOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8260	11/03/1994	Soil	0.005	U		0.005
STYRENE	VOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8260	11/03/1994	Soil	0.005	U		0.005
STYRENE	VOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8260	11/07/1994	Soil	0.005	U		0.005
STYRENE	VOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8260	11/09/1994	Soil	0.005	U		0.005
STYRENE	VOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8260	11/11/1994	Soil	0.005	U		0.005
STYRENE	VOC	965752BH01	96575225SL	AP-3785	5	8260	10/02/1996	Soil	0.001	U	0.001	0.001
STYRENE	VOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8260	10/03/1996	Soil	0.001	U	0.001	0.001
STYRENE	VOC	965752BH04	96575238SL	AP-3788	2.5	8260	10/03/1996	Soil	0.001	U	0.001	0.001
STYRENE	VOC	965752BH04	96575239SL-AVG	AP-3788	5	8260	10/03/1996	Soil	0.001	U	0.001	0.001
STYRENE	VOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8260	10/06/1994	Soil	0.005	U		0.005
STYRENE	VOC	Drum Accumulation Area	94575203SL	SS 2	6"	8260	10/06/1994	Soil	0.005	U		0.005
STYRENE	VOC	Drum Accumulation Area	94575204SL	SS 3	6"	8260	10/06/1994	Soil	0.005	U		0.005
STYRENE	VOC	Drum Accumulation Area	94575205SL	SS 4	6"	8260	10/06/1994	Soil	0.005	U		0.005
STYRENE	VOC	Drum Accumulation Area	94575206SL	SS 5	6"	8260	10/06/1994	Soil	0.005	U		0.005
STYRENE	VOC	Drum Accumulation Area	94575207SL	SS 6	6"	8260	10/06/1994	Soil	0.005	U		0.005
STYRENE	VOC	Drum Accumulation Area	94575208SL	SS 7	6"	8260	10/06/1994	Soil	0.005	U		0.005
STYRENE	VOC	Drum Accumulation Area	94575209SL	SS 8	6"	8260	10/06/1994	Soil	0.005	U		0.005
STYRENE	VOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8260	11/03/1994	Soil	0.005	U		0.005
STYRENE	VOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8260	11/03/1994	Soil	0.005	U		0.005
STYRENE	VOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8260	11/07/1994	Soil	0.005	U		0.005
STYRENE	VOC	Cooling Pond	94575231SL	AP-3503	0-6'	8260	11/08/1994	Soil	0.005	U		0.005
STYRENE	VOC	Cooling Pond	94575235SL	AP-3504	0-2'	8260	11/09/1994	Soil	0.005	U		0.005
STYRENE	VOC	965752BH03	96575230SL	AP-3787	0	8260	10/03/1996	Soil	0.001	U	0.001	0.005
STYRENE	VOC	965752BH04	96575236SL-AVG	AP-3788	0	8260	10/03/1996	Soil	0.001	U	0.001	0.005
t-BUTYLBENZENE	VOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
t-BUTYLBENZENE	VOC	Cooling Pond	94575242SD	SD-B	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
t-BUTYLBENZENE	VOC	Cooling Pond	94575243SD	SD-C	0-6"	8260	12/08/1994	Sediment	0.04	U		0.04
t-BUTYLBENZENE	VOC	Cooling Pond	94575244SD	SD-D	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
t-BUTYLBENZENE	VOC	Cooling Pond	94575245SD	SD-E	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
t-BUTYLBENZENE	VOC	Cooling Pond	94575246SD	SD-F	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
t-BUTYLBENZENE	VOC	Cooling Pond	94575247SD	SD-G	0-6"	8260	12/08/1994	Sediment	0.04	U		0.04
t-BUTYLBENZENE	VOC	Cooling Pond	94575248SD	SD-H	0-6"	8260	12/08/1994	Sediment	0.02	U		0.02
t-BUTYLBENZENE	VOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.04

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
t-BUTYLBENZENE	VOC	119 ft from DP	96575205SD	96-SD5	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.04
t-BUTYLBENZENE	VOC	147 ft from DP	96575206SD	96-SD6	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.02
t-BUTYLBENZENE	VOC	165 ft from DP	96575208SD	96-SD8	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.02
t-BUTYLBENZENE	VOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.02
t-BUTYLBENZENE	VOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8260	09/25/1996	Sediment	0.006	U	0.006	0.06
t-BUTYLBENZENE	VOC	40 ft from DP	96575202SD	96-SD2	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.04
t-BUTYLBENZENE	VOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.04
t-BUTYLBENZENE	VOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.02
t-BUTYLBENZENE	VOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8260	09/26/1996	Sediment	0.004	U	0.004	0.04
t-BUTYLBENZENE	VOC	Drum Accumulation Area	94575210SL	SS 8	2'	8260	10/06/1994	Soil	0.02	U		0.02
t-BUTYLBENZENE	VOC	Drum Accumulation Area	94575211SL	SS 7	2'	8260	10/10/1994	Soil	0.02	U		0.02
t-BUTYLBENZENE	VOC	Drum Accumulation Area	94575212SL	SS 6	2'	8260	10/10/1994	Soil	0.02	U		0.02
t-BUTYLBENZENE	VOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8260	10/10/1994	Soil	0.02	U		0.02
t-BUTYLBENZENE	VOC	Drum Accumulation Area	94575215SL	SS 4	2'	8260	10/10/1994	Soil	0.02	U		0.02
t-BUTYLBENZENE	VOC	Drum Accumulation Area	94575216SL	SS 3	2'	8260	10/10/1994	Soil	0.02	U		0.02
t-BUTYLBENZENE	VOC	Drum Accumulation Area	94575217SL	SS 2	2'	8260	10/10/1994	Soil	0.02	U		0.02
t-BUTYLBENZENE	VOC	Drum Accumulation Area	94575218SL	SS 1	2'	8260	10/10/1994	Soil	0.02	U		0.02
t-BUTYLBENZENE	VOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8260	11/03/1994	Soil	0.02	U		0.02
t-BUTYLBENZENE	VOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8260	11/03/1994	Soil	0.02	U		0.02
t-BUTYLBENZENE	VOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8260	11/07/1994	Soil	0.02	U		0.02
t-BUTYLBENZENE	VOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8260	11/09/1994	Soil	0.02	U		0.02
t-BUTYLBENZENE	VOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8260	11/11/1994	Soil	0.02	U		0.02
t-BUTYLBENZENE	VOC	965752BH01	96575225SL	AP-3785	5	8260	10/02/1996	Soil	0.002	U	0.002	0.002
t-BUTYLBENZENE	VOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
t-BUTYLBENZENE	VOC	965752BH04	96575238SL	AP-3788	2.5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
t-BUTYLBENZENE	VOC	965752BH04	96575239SL-AVG	AP-3788	5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
t-BUTYLBENZENE	VOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8260	10/06/1994	Soil	0.02	U		0.02
t-BUTYLBENZENE	VOC	Drum Accumulation Area	94575203SL	SS 2	6"	8260	10/06/1994	Soil	0.02	U		0.02
t-BUTYLBENZENE	VOC	Drum Accumulation Area	94575204SL	SS 3	6"	8260	10/06/1994	Soil	0.02	U		0.02
t-BUTYLBENZENE	VOC	Drum Accumulation Area	94575205SL	SS 4	6"	8260	10/06/1994	Soil	0.02	U		0.02
t-BUTYLBENZENE	VOC	Drum Accumulation Area	94575206SL	SS 5	6"	8260	10/06/1994	Soil	0.02	U		0.02
t-BUTYLBENZENE	VOC	Drum Accumulation Area	94575207SL	SS 6	6"	8260	10/06/1994	Soil	0.02	U		0.02
t-BUTYLBENZENE	VOC	Drum Accumulation Area	94575208SL	SS 7	6"	8260	10/06/1994	Soil	0.02	U		0.02
t-BUTYLBENZENE	VOC	Drum Accumulation Area	94575209SL	SS 8	6"	8260	10/06/1994	Soil	0.02	U		0.02
t-BUTYLBENZENE	VOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8260	11/03/1994	Soil	0.02	U		0.02
t-BUTYLBENZENE	VOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8260	11/03/1994	Soil	0.02	U		0.02
t-BUTYLBENZENE	VOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8260	11/07/1994	Soil	0.02	U		0.02
t-BUTYLBENZENE	VOC	Cooling Pond	94575231SL	AP-3503	0-6'	8260	11/08/1994	Soil	0.02	U		0.02
t-BUTYLBENZENE	VOC	Cooling Pond	94575235SL	AP-3504	0-2'	8260	11/09/1994	Soil	0.02	U		0.02
t-BUTYLBENZENE	VOC	965752BH03	96575230SL	AP-3787	0	8260	10/03/1996	Soil	0.002	U	0.002	0.02
t-BUTYLBENZENE	VOC	965752BH04	96575236SL-AVG	AP-3788	0	8260	10/03/1996	Soil	0.002	U	0.002	0.02
TETRACHLORINATED DIBENZOFURANS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752132SL	P1	1.5 - 2	SW8290D	07/30/2002	Soil	0.00000051	U	0.00000051	0.000001
TETRACHLORINATED DIBENZOFURANS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752202SL	P24	1 - 1.5	SW8290D	07/30/2002	Soil	0.0000012	=	0.00000051	0.000001
TETRACHLORINATED DIBENZOFURANS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752215SL	P28	1.5 - 2	SW8290D	07/30/2002	Soil	0.00000051	U	0.00000051	0.000001
TETRACHLORINATED DIBENZOFURANS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752220SL	P30	1 - 1.5	SW8290D	07/30/2002	Soil	0.0000123	=	0.00000051	0.000001
TETRACHLORINATED DIBENZOFURANS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752157SL-AVG	P10	0 - 0.5	SW8290D	07/30/2002	Soil	0.00001365	=		
TETRACHLORINATED DIBENZOFURANS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752208SL	P26	0 - 0.5	SW8290D	07/30/2002	Soil	0.0000458	=		
TETRACHLORINATED DIBENZOFURANS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752217SL	P29	0 - 0.5	SW8290D	07/30/2002	Soil	0.0000499	=		
TETRACHLORINATED DIBENZOFURANS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75264SL	S31	1 - 1.5	SW8290D	07/26/2002	Soil	0.00000039	=	0.0000005	0.000001
TETRACHLORINATED DIBENZOFURANS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75270SL	S34	1 - 1.5	SW8290D	07/26/2002	Soil	0.000015	=	0.0000005	0.000001
TETRACHLORINATED DIBENZOFURANS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75277SL	S38	0 - 0.5	SW8290D	07/26/2002	Soil	0.0000153	=	0.00000051	0.000001
TETRACHLORINATED DIBENZOFURANS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75283SL-AVG	S41	0 - 0.5	SW8290D	07/26/2002	Soil	0.0000137	=		
TETRACHLORINATED DIBENZOFURANS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Transformer Mounting Area	02B75238SL	T13	0 - 0.5	SW8290D	08/01/2002	Soil	0.0000653	=	0.00000051	0.000001
TETRACHLORINATED DIBENZOFURANS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Transformer Mounting Area	02B75244SL	T15	0 - 0.5	SW8290D	08/01/2002	Soil	0.0000902	=	0.00000051	0.000001
TETRACHLORINATED DIBENZOFURANS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B75216SL	T6	0 - 0.5	SW8290D	08/01/2002	Soil	0.000088	=	0.0000005	0.000001
TETRACHLORINATED DIBENZOFURANS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B75229SL	T10	0 - 0.5	SW8290D	08/01/2002	Soil	0.000128	=		
TETRACHLORINATED DIBENZOFURANS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B752233	T11	0.5 - 1	SW8290D	10/15/2002	Soil	0.000021	=	0.00000051	0.000001
TETRACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752132SL	P1	1.5 - 2	SW8290D	07/30/2002	Soil	0.0000007	U	0.0000007	0.000001
TETRACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752202SL	P24	1 - 1.5	SW8290D	07/30/2002	Soil	0.0000007	U	0.0000007	0.000001
TETRACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752215SL	P28	1.5 - 2	SW8290D	07/30/2002	Soil	0.0000007	U	0.0000007	0.000001
TETRACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752220SL	P30	1 - 1.5	SW8290D	07/30/2002	Soil	0.0000007	U	0.0000007	0.000001
TETRACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752157SL-AVG	P10	0 - 0.5	SW8290D	07/30/2002	Soil	0.00000076	=		

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
TETRACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752208SL	P26	0 - 0.5	SW8290D	07/30/2002	Soil	0.0000022	=		
TETRACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752217SL	P29	0 - 0.5	SW8290D	07/30/2002	Soil	0.0000056	=		
TETRACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75264SL	S31	1 - 1.5	SW8290D	07/26/2002	Soil	0.00000068	U	0.00000068	0.000001
TETRACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75270SL	S34	1 - 1.5	SW8290D	07/26/2002	Soil	0.0000006	=	0.00000069	0.000001
TETRACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75277SL	S38	0 - 0.5	SW8290D	07/26/2002	Soil	0.00000074	=	0.00000069	0.000001
TETRACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75283SL-AVG	S41	0 - 0.5	SW8290D	07/26/2002	Soil	0.00000073	=		
TETRACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Transformer Mounting Area	02B75238SL	T13	0 - 0.5	SW8290D	08/01/2002	Soil	0.00000043	=	0.0000007	0.000001
TETRACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Transformer Mounting Area	02B75244SL	T15	0 - 0.5	SW8290D	08/01/2002	Soil	0.0000055	=	0.00000069	0.000001
TETRACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B75216SL	T6	0 - 0.5	SW8290D	08/01/2002	Soil	0.00000076	=	0.00000069	0.000001
TETRACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B75229SL	T10	0 - 0.5	SW8290D	08/01/2002	Soil	0.00000072	=		
TETRACHLORINATED DIBENZO-p-DIOXINS, (TOTAL)	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B752233	T11	0.5 - 1	SW8290D	10/15/2002	Soil	0.0000006	=	0.0000007	0.000001
TETRACHLOROETHYLENE(PCE)	VOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
TETRACHLOROETHYLENE(PCE)	VOC	Cooling Pond	94575242SD	SD-B	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
TETRACHLOROETHYLENE(PCE)	VOC	Cooling Pond	94575243SD	SD-C	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
TETRACHLOROETHYLENE(PCE)	VOC	Cooling Pond	94575244SD	SD-D	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
TETRACHLOROETHYLENE(PCE)	VOC	Cooling Pond	94575245SD	SD-E	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
TETRACHLOROETHYLENE(PCE)	VOC	Cooling Pond	94575246SD	SD-F	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
TETRACHLOROETHYLENE(PCE)	VOC	Cooling Pond	94575247SD	SD-G	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
TETRACHLOROETHYLENE(PCE)	VOC	Cooling Pond	94575248SD	SD-H	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
TETRACHLOROETHYLENE(PCE)	VOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.01
TETRACHLOROETHYLENE(PCE)	VOC	119 ft from DP	96575205SD	96-SD5	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.01
TETRACHLOROETHYLENE(PCE)	VOC	147 ft from DP	96575206SD	96-SD6	----	8260	09/25/1996	Sediment	0.0009	U	0.0009	0.005
TETRACHLOROETHYLENE(PCE)	VOC	165 ft from DP	96575208SD	96-SD8	----	8260	09/25/1996	Sediment	0.0009	U	0.0009	0.005
TETRACHLOROETHYLENE(PCE)	VOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8260	09/25/1996	Sediment	0.0009	U	0.0009	0.005
TETRACHLOROETHYLENE(PCE)	VOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8260	09/25/1996	Sediment	0.003	U	0.003	0.015
TETRACHLOROETHYLENE(PCE)	VOC	40 ft from DP	96575202SD	96-SD2	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.01
TETRACHLOROETHYLENE(PCE)	VOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.01
TETRACHLOROETHYLENE(PCE)	VOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8260	09/25/1996	Sediment	0.0009	U	0.0009	0.005
TETRACHLOROETHYLENE(PCE)	VOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8260	09/26/1996	Sediment	0.002	U	0.002	0.01
TETRACHLOROETHYLENE(PCE)	VOC	Drum Accumulation Area	94575210SL	SS 8	2'	8260	10/06/1994	Soil	0.005	U		0.005
TETRACHLOROETHYLENE(PCE)	VOC	Drum Accumulation Area	94575211SL	SS 7	2'	8260	10/10/1994	Soil	0.005	U		0.005
TETRACHLOROETHYLENE(PCE)	VOC	Drum Accumulation Area	94575212SL	SS 6	2'	8260	10/10/1994	Soil	0.005	U		0.005
TETRACHLOROETHYLENE(PCE)	VOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8260	10/10/1994	Soil	0.005	U		0.005
TETRACHLOROETHYLENE(PCE)	VOC	Drum Accumulation Area	94575215SL	SS 4	2'	8260	10/10/1994	Soil	0.005	U		0.005
TETRACHLOROETHYLENE(PCE)	VOC	Drum Accumulation Area	94575216SL	SS 3	2'	8260	10/10/1994	Soil	0.005	U		0.005
TETRACHLOROETHYLENE(PCE)	VOC	Drum Accumulation Area	94575217SL	SS 2	2'	8260	10/10/1994	Soil	0.005	U		0.005
TETRACHLOROETHYLENE(PCE)	VOC	Drum Accumulation Area	94575218SL	SS 1	2'	8260	10/10/1994	Soil	0.005	U		0.005
TETRACHLOROETHYLENE(PCE)	VOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8260	11/03/1994	Soil	0.005	U		0.005
TETRACHLOROETHYLENE(PCE)	VOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8260	11/03/1994	Soil	0.005	U		0.005
TETRACHLOROETHYLENE(PCE)	VOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8260	11/07/1994	Soil	0.005	U		0.005
TETRACHLOROETHYLENE(PCE)	VOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8260	11/09/1994	Soil	0.005	U		0.005
TETRACHLOROETHYLENE(PCE)	VOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8260	11/11/1994	Soil	0.005	U		0.005
TETRACHLOROETHYLENE(PCE)	VOC	965752BH01	96575225SL	AP-3785	5	8260	10/02/1996	Soil	0.0009	U	0.0009	0.0009
TETRACHLOROETHYLENE(PCE)	VOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8260	10/03/1996	Soil	0.0009	U	0.0009	0.0009
TETRACHLOROETHYLENE(PCE)	VOC	965752BH04	96575238SL	AP-3788	2.5	8260	10/03/1996	Soil	0.0009	U	0.0009	0.0009
TETRACHLOROETHYLENE(PCE)	VOC	965752BH04	96575239SL-AVG	AP-3788	5	8260	10/03/1996	Soil	0.0009	U	0.0009	0.0009
TETRACHLOROETHYLENE(PCE)	VOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8260	10/06/1994	Soil	0.005	U		0.005
TETRACHLOROETHYLENE(PCE)	VOC	Drum Accumulation Area	94575203SL	SS 2	6"	8260	10/06/1994	Soil	0.005	U		0.005
TETRACHLOROETHYLENE(PCE)	VOC	Drum Accumulation Area	94575204SL	SS 3	6"	8260	10/06/1994	Soil	0.005	U		0.005
TETRACHLOROETHYLENE(PCE)	VOC	Drum Accumulation Area	94575205SL	SS 4	6"	8260	10/06/1994	Soil	0.005	U		0.005
TETRACHLOROETHYLENE(PCE)	VOC	Drum Accumulation Area	94575206SL	SS 5	6"	8260	10/06/1994	Soil	0.005	U		0.005
TETRACHLOROETHYLENE(PCE)	VOC	Drum Accumulation Area	94575207SL	SS 6	6"	8260	10/06/1994	Soil	0.005	U		0.005
TETRACHLOROETHYLENE(PCE)	VOC	Drum Accumulation Area	94575208SL	SS 7	6"	8260	10/06/1994	Soil	0.005	U		0.005
TETRACHLOROETHYLENE(PCE)	VOC	Drum Accumulation Area	94575209SL	SS 8	6"	8260	10/06/1994	Soil	0.005	U		0.005
TETRACHLOROETHYLENE(PCE)	VOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8260	11/03/1994	Soil	0.005	U		0.005
TETRACHLOROETHYLENE(PCE)	VOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8260	11/03/1994	Soil	0.005	U		0.005
TETRACHLOROETHYLENE(PCE)	VOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8260	11/07/1994	Soil	0.005	U		0.005
TETRACHLOROETHYLENE(PCE)	VOC	Cooling Pond	94575231SL	AP-3503	0-6'	8260	11/08/1994	Soil	0.005	U		0.005
TETRACHLOROETHYLENE(PCE)	VOC	Cooling Pond	94575235SL	AP-3504	0-2'	8260	11/09/1994	Soil	0.005	U		0.005
TETRACHLOROETHYLENE(PCE)	VOC	965752BH03	96575230SL	AP-3787	0	8260	10/03/1996	Soil	0.0009	U	0.0009	0.005
TETRACHLOROETHYLENE(PCE)	VOC	965752BH04	96575236SL-AVG	AP-3788	0	8260	10/03/1996	Soil	0.0009	U	0.0009	0.005
THALLIUM	METAL	Drum Accumulation Area	94575210SL	SS 8	2'	METALS	10/06/1994	Soil	1	U		1

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
THALLIUM	METAL	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	METALS	10/06/1994	Soil	1	U		1
THALLIUM	METAL	Drum Accumulation Area	94575203SL	SS 2	6"	METALS	10/06/1994	Soil	1	U		1
THALLIUM	METAL	Drum Accumulation Area	94575204SL	SS 3	6"	METALS	10/06/1994	Soil	1	U		1
THALLIUM	METAL	Drum Accumulation Area	94575205SL	SS 4	6"	METALS	10/06/1994	Soil	1	U		1
THALLIUM	METAL	Drum Accumulation Area	94575206SL	SS 5	6"	METALS	10/06/1994	Soil	1	U		1
THALLIUM	METAL	Drum Accumulation Area	94575207SL	SS 6	6"	METALS	10/06/1994	Soil	1	U		1
THALLIUM	METAL	Drum Accumulation Area	94575208SL	SS 7	6"	METALS	10/06/1994	Soil	1	U		1
THALLIUM	METAL	Drum Accumulation Area	94575209SL	SS 8	6"	METALS	10/06/1994	Soil	1	U		1
TOLUENE	VOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
TOLUENE	VOC	Cooling Pond	94575242SD	SD-B	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
TOLUENE	VOC	Cooling Pond	94575243SD	SD-C	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
TOLUENE	VOC	Cooling Pond	94575244SD	SD-D	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
TOLUENE	VOC	Cooling Pond	94575245SD	SD-E	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
TOLUENE	VOC	Cooling Pond	94575246SD	SD-F	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
TOLUENE	VOC	Cooling Pond	94575247SD	SD-G	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
TOLUENE	VOC	Cooling Pond	94575248SD	SD-H	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
TOLUENE	VOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
TOLUENE	VOC	119 ft from DP	96575205SD	96-SD5	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
TOLUENE	VOC	147 ft from DP	96575206SD	96-SD6	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
TOLUENE	VOC	165 ft from DP	96575208SD	96-SD8	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
TOLUENE	VOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
TOLUENE	VOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8260	09/25/1996	Sediment	0.006	U	0.006	0.015
TOLUENE	VOC	40 ft from DP	96575202SD	96-SD2	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
TOLUENE	VOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
TOLUENE	VOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
TOLUENE	VOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8260	09/26/1996	Sediment	0.004	U	0.004	0.01
TOLUENE	VOC	Drum Accumulation Area	94575210SL	SS 8	2'	8260	10/06/1994	Soil	0.005	=		0.005
TOLUENE	VOC	Drum Accumulation Area	94575211SL	SS 7	2'	8260	10/10/1994	Soil	0.005	U		0.005
TOLUENE	VOC	Drum Accumulation Area	94575212SL	SS 6	2'	8260	10/10/1994	Soil	0.005	U		0.005
TOLUENE	VOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8260	10/10/1994	Soil	0.005	U		0.005
TOLUENE	VOC	Drum Accumulation Area	94575215SL	SS 4	2'	8260	10/10/1994	Soil	0.005	U		0.005
TOLUENE	VOC	Drum Accumulation Area	94575216SL	SS 3	2'	8260	10/10/1994	Soil	0.005	U		0.005
TOLUENE	VOC	Drum Accumulation Area	94575217SL	SS 2	2'	8260	10/10/1994	Soil	0.008	=		0.005
TOLUENE	VOC	Drum Accumulation Area	94575218SL	SS 1	2'	8260	10/10/1994	Soil	0.005	U		0.005
TOLUENE	VOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8260	11/03/1994	Soil	0.005	U		0.005
TOLUENE	VOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8260	11/03/1994	Soil	0.005	U		0.005
TOLUENE	VOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8260	11/07/1994	Soil	0.005	U		0.005
TOLUENE	VOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8260	11/09/1994	Soil	0.005	U		0.005
TOLUENE	VOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8260	11/11/1994	Soil	0.005	U		0.005
TOLUENE	VOC	965752BH01	96575225SL	AP-3785	5	8260	10/02/1996	Soil	0.002	U	0.002	0.002
TOLUENE	VOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
TOLUENE	VOC	965752BH04	96575238SL	AP-3788	2.5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
TOLUENE	VOC	965752BH04	96575239SL-AVG	AP-3788	5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
TOLUENE	VOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8260	10/06/1994	Soil	0.005	U		0.005
TOLUENE	VOC	Drum Accumulation Area	94575203SL	SS 2	6"	8260	10/06/1994	Soil	0.005	U		0.005
TOLUENE	VOC	Drum Accumulation Area	94575204SL	SS 3	6"	8260	10/06/1994	Soil	0.006	=		0.005
TOLUENE	VOC	Drum Accumulation Area	94575205SL	SS 4	6"	8260	10/06/1994	Soil	0.006	=		0.005
TOLUENE	VOC	Drum Accumulation Area	94575206SL	SS 5	6"	8260	10/06/1994	Soil	0.005	U		0.005
TOLUENE	VOC	Drum Accumulation Area	94575207SL	SS 6	6"	8260	10/06/1994	Soil	0.005	U		0.005
TOLUENE	VOC	Drum Accumulation Area	94575208SL	SS 7	6"	8260	10/06/1994	Soil	0.005	U		0.005
TOLUENE	VOC	Drum Accumulation Area	94575209SL	SS 8	6"	8260	10/06/1994	Soil	0.005	U		0.005
TOLUENE	VOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8260	11/03/1994	Soil	0.005	=		0.005
TOLUENE	VOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8260	11/03/1994	Soil	0.005	U		0.005
TOLUENE	VOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8260	11/07/1994	Soil	0.005	U		0.005
TOLUENE	VOC	Cooling Pond	94575231SL	AP-3503	0-6'	8260	11/08/1994	Soil	0.005	U		0.005
TOLUENE	VOC	Cooling Pond	94575235SL	AP-3504	0-2'	8260	11/09/1994	Soil	0.005	U		0.005
TOLUENE	VOC	965752BH03	96575230SL	AP-3787	0	8260	10/03/1996	Soil	0.002	U	0.002	0.005
TOLUENE	VOC	965752BH04	96575236SL-AVG	AP-3788	0	8260	10/03/1996	Soil	0.002	U	0.002	0.005
TOLUENE	VOC	Tank 1109; BH-12	90FRUST86 soil	AP-2982	5-6.5'	8020	08/21/1990	Soil	0.023	=		
TOLUENE	VOC	Tank 1109; BH-13	90FRUST90 soil	AP-2983	5-5.5'	8020	08/21/1990	Soil	0.019	=		
Total TCDD-Bird	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752132SL	P1	1.5 - 2	SW8290D	07/30/2002	Soil	9.069E-09	=		
Total TCDD-Bird	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752157SL-AVG	P10	0 - 0.5	SW8290D	07/30/2002	Soil	1.42133E-06	=		

TABLE A-1

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Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
Total TCDD-Bird	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752202SL	P24	1 - 1.5	SW8290D	07/30/2002	Soil	3.975E-07	=		
Total TCDD-Bird	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752208SL	P26	0 - 0.5	SW8290D	07/30/2002	Soil	1.27295E-05	=		
Total TCDD-Bird	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752215SL	P28	1.5 - 2	SW8290D	07/30/2002	Soil	1E-10	=		
Total TCDD-Bird	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752217SL	P29	0 - 0.5	SW8290D	07/30/2002	Soil	1.80596E-05	=		
Total TCDD-Bird	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752220SL	P30	1 - 1.5	SW8290D	07/30/2002	Soil	6.934E-07	=		
Total TCDD-Bird	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75264SL	S31	1 - 1.5	SW8290D	07/26/2002	Soil	1.1327E-07	=		
Total TCDD-Bird	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75270SL	S34	1 - 1.5	SW8290D	07/26/2002	Soil	1.0639E-06	=		
Total TCDD-Bird	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75277SL	S38	0 - 0.5	SW8290D	07/26/2002	Soil	2.43334E-06	=		
Total TCDD-Bird	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75283SL-AVG	S41	0 - 0.5	SW8290D	07/26/2002	Soil	3.84495E-07	=		
Total TCDD-Bird	DIOXIN/FURANS	Bldg. 35-752, Transformer Mounting Area	02B75238SL	T13	0 - 0.5	SW8290D	08/01/2002	Soil	1.69267E-05	=		
Total TCDD-Bird	DIOXIN/FURANS	Bldg. 35-752, Transformer Mounting Area	02B75244SL	T15	0 - 0.5	SW8290D	08/01/2002	Soil	1.69095E-05	=		
Total TCDD-Bird	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B75216SL	T6	0 - 0.5	SW8290D	08/01/2002	Soil	6.60163E-06	=		
Total TCDD-Bird	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B75229SL	T10	0 - 0.5	SW8290D	08/01/2002	Soil	1.53345E-06	=		
Total TCDD-Bird	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B752233	T11	0.5 - 1	SW8290D	10/15/2002	Soil	1.75846E-06	=		
Total TCDD-Bird	DIOXIN/FURANS	fiber cable route	LCI 1-1	LCI1	1-2'	8280A	05/10/2001	Soil	0.000000115	=		
Total TCDD-Bird	DIOXIN/FURANS	fiber cable route	LCI 5-0	LCI5	0-1'	8280A	05/10/2001	Soil	0.000000095	=		
Total TCDD-Mammal	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752132SL	P1	1.5 - 2	SW8290D	07/30/2002	Soil	2.0769E-08	=		
Total TCDD-Mammal	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752157SL-AVG	P10	0 - 0.5	SW8290D	07/30/2002	Soil	9.05975E-07	=		
Total TCDD-Mammal	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752202SL	P24	1 - 1.5	SW8290D	07/30/2002	Soil	7.278E-07	=		
Total TCDD-Mammal	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752208SL	P26	0 - 0.5	SW8290D	07/30/2002	Soil	1.02355E-05	=		
Total TCDD-Mammal	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752215SL	P28	1.5 - 2	SW8290D	07/30/2002	Soil	1E-10	=		
Total TCDD-Mammal	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752217SL	P29	0 - 0.5	SW8290D	07/30/2002	Soil	1.14827E-05	=		
Total TCDD-Mammal	DIOXIN/FURANS	Bldg. 35-752, Periphery Road	02B752220SL	P30	1 - 1.5	SW8290D	07/30/2002	Soil	1.1146E-07	=		
Total TCDD-Mammal	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75264SL	S31	1 - 1.5	SW8290D	07/26/2002	Soil	1.7087E-07	=		
Total TCDD-Mammal	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75270SL	S34	1 - 1.5	SW8290D	07/26/2002	Soil	6.142E-07	=		
Total TCDD-Mammal	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75277SL	S38	0 - 0.5	SW8290D	07/26/2002	Soil	1.73764E-06	=		
Total TCDD-Mammal	DIOXIN/FURANS	Bldg. 35-752, Stockpile Area	02B75283SL-AVG	S41	0 - 0.5	SW8290D	07/26/2002	Soil	5.22195E-07	=		
Total TCDD-Mammal	DIOXIN/FURANS	Bldg. 35-752, Transformer Mounting Area	02B75238SL	T13	0 - 0.5	SW8290D	08/01/2002	Soil	1.68317E-05	=		
Total TCDD-Mammal	DIOXIN/FURANS	Bldg. 35-752, Transformer Mounting Area	02B75244SL	T15	0 - 0.5	SW8290D	08/01/2002	Soil	1.37155E-05	=		
Total TCDD-Mammal	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B75216SL	T6	0 - 0.5	SW8290D	08/01/2002	Soil	4.42173E-06	=		
Total TCDD-Mammal	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B75229SL	T10	0 - 0.5	SW8290D	08/01/2002	Soil	1.82775E-06	=		
Total TCDD-Mammal	DIOXIN/FURANS	Bldg. 35-752, Transformer Oil Discharge Area	02B752233	T11	0.5 - 1	SW8290D	10/15/2002	Soil	7.8556E-07	=		
Total TCDD-Mammal	DIOXIN/FURANS	fiber cable route	LCI 1-1	LCI1	1-2'	8280A	05/10/2001	Soil	0.000000565	=		
Total TCDD-Mammal	DIOXIN/FURANS	fiber cable route	LCI 5-0	LCI5	0-1'	8280A	05/10/2001	Soil	0.000000635	=		
TOXAPHENE	PEST/PCB	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8080	12/08/1994	Sediment	0.3	U		0.3
TOXAPHENE	PEST/PCB	Cooling Pond	94575242SD	SD-B	0-6"	8080	12/08/1994	Sediment	0.3	U		0.3
TOXAPHENE	PEST/PCB	Cooling Pond	94575243SD	SD-C	0-6"	8080	12/08/1994	Sediment	0.3	U		0.3
TOXAPHENE	PEST/PCB	Cooling Pond	94575244SD	SD-D	0-6"	8080	12/08/1994	Sediment	0.3	U		0.3
TOXAPHENE	PEST/PCB	Cooling Pond	94575245SD	SD-E	0-6"	8080	12/08/1994	Sediment	0.8	U		0.8
TOXAPHENE	PEST/PCB	Cooling Pond	94575246SD	SD-F	0-6"	8080	12/08/1994	Sediment	5	U		5
TOXAPHENE	PEST/PCB	Cooling Pond	94575247SD	SD-G	0-6"	8080	12/08/1994	Sediment	5	U		5
TOXAPHENE	PEST/PCB	Cooling Pond	94575248SD	SD-H	0-6"	8080	12/08/1994	Sediment	3	U		3
TOXAPHENE	PEST/PCB	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8080	09/25/1996	Sediment	0.1	U	0.1	0.6
TOXAPHENE	PEST/PCB	119 ft from DP	96575205SD	96-SD5	----	8080	09/25/1996	Sediment	0.1	U	0.1	0.6
TOXAPHENE	PEST/PCB	147 ft from DP	96575206SD	96-SD6	----	8080	09/25/1996	Sediment	0.05	U	0.05	0.3
TOXAPHENE	PEST/PCB	165 ft from DP	96575208SD	96-SD8	----	8080	09/25/1996	Sediment	0.05	U	0.05	0.3
TOXAPHENE	PEST/PCB	171 ft from DP (east side)	96575209SD	96-SD9	----	8080	09/25/1996	Sediment	0.05	U	0.05	0.3
TOXAPHENE	PEST/PCB	171 ft from DP (west side)	96575207SD	96-SD7	----	8080	09/25/1996	Sediment	0.1	U	0.1	0.6
TOXAPHENE	PEST/PCB	40 ft from DP	96575202SD	96-SD2	----	8080	09/25/1996	Sediment	0.1	U	0.1	0.6
TOXAPHENE	PEST/PCB	79 ft from DP	96575203SD-AVG	96-SD3	----	8080	09/25/1996	Sediment	0.1	U	0.1	0.6
TOXAPHENE	PEST/PCB	Discharge pipe (DP)	96575201SD	96-SD1	----	8080	09/25/1996	Sediment	0.05	U	0.05	0.3
TOXAPHENE	PEST/PCB	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8080	09/26/1996	Sediment	0.1	U	0.1	0.6
TOXAPHENE	PEST/PCB	Downstream end of 35-752 pond	975752007SD-AVG	96-SD007	0	SW8081	10/21/1997	Sediment	0.05	U	0.05	0.6
TOXAPHENE	PEST/PCB	Drum Accumulation Area	94575210SL	SS 8	2'	8080	10/06/1994	Soil	0.3	U		0.3
TOXAPHENE	PEST/PCB	Drum Accumulation Area	94575211SL	SS 7	2'	8080	10/10/1994	Soil	0.3	U		0.3
TOXAPHENE	PEST/PCB	Drum Accumulation Area	94575212SL	SS 6	2'	8080	10/10/1994	Soil	0.3	U		0.3
TOXAPHENE	PEST/PCB	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8080	10/10/1994	Soil	0.3	U		0.3
TOXAPHENE	PEST/PCB	Drum Accumulation Area	94575215SL	SS 4	2'	8080	10/10/1994	Soil	0.3	U		0.3
TOXAPHENE	PEST/PCB	Drum Accumulation Area	94575216SL	SS 3	2'	8080	10/10/1994	Soil	0.3	U		0.3
TOXAPHENE	PEST/PCB	Drum Accumulation Area	94575217SL	SS 2	2'	8080	10/10/1994	Soil	0.3	U		0.3
TOXAPHENE	PEST/PCB	Drum Accumulation Area	94575218SL	SS 1	2'	8080	10/10/1994	Soil	0.3	U		0.3
TOXAPHENE	PEST/PCB	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8080	11/03/1994	Soil	0.3	U		0.3

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
TOXAPHENE	PEST/PCB	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8080	11/03/1994	Soil	0.3	U		0.3
TOXAPHENE	PEST/PCB	Cooling Pond	94575229SL	AP-3502	4'-6'	8080	11/07/1994	Soil	1	U		1
TOXAPHENE	PEST/PCB	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8080	11/09/1994	Soil	0.3	U		0.3
TOXAPHENE	PEST/PCB	Cooling Pond	94575240SL	AP-3501	5'-7'	8080	11/11/1994	Soil	0.6	U		0.6
TOXAPHENE	PEST/PCB	965752BH01	96575225SL	AP-3785	5	8080	10/02/1996	Soil	0.05	U	0.05	0.05
TOXAPHENE	PEST/PCB	965752BH03	96575231SL-AVG	AP-3787	2.5	8080	10/03/1996	Soil	0.05	U	0.05	0.05
TOXAPHENE	PEST/PCB	965752BH03	96575233SL	AP-3787	5	8080	10/03/1996	Soil	0.05	U	0.05	0.05
TOXAPHENE	PEST/PCB	965752BH04	96575238SL	AP-3788	2.5	8080	10/03/1996	Soil	0.05	U	0.05	0.05
TOXAPHENE	PEST/PCB	965752BH04	96575239SL-AVG	AP-3788	5	8080	10/03/1996	Soil	0.05	U	0.05	0.05
TOXAPHENE	PEST/PCB	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8080	10/06/1994	Soil	0.3	U		0.3
TOXAPHENE	PEST/PCB	Drum Accumulation Area	94575203SL	SS 2	6"	8080	10/06/1994	Soil	0.3	U		0.3
TOXAPHENE	PEST/PCB	Drum Accumulation Area	94575204SL	SS 3	6"	8080	10/06/1994	Soil	0.3	U		0.3
TOXAPHENE	PEST/PCB	Drum Accumulation Area	94575205SL	SS 4	6"	8080	10/06/1994	Soil	0.3	U		0.3
TOXAPHENE	PEST/PCB	Drum Accumulation Area	94575206SL	SS 5	6"	8080	10/06/1994	Soil	0.3	U		0.3
TOXAPHENE	PEST/PCB	Drum Accumulation Area	94575207SL	SS 6	6"	8080	10/06/1994	Soil	0.3	U		0.3
TOXAPHENE	PEST/PCB	Drum Accumulation Area	94575208SL	SS 7	6"	8080	10/06/1994	Soil	0.3	U		0.3
TOXAPHENE	PEST/PCB	Drum Accumulation Area	94575209SL	SS 8	6"	8080	10/06/1994	Soil	0.3	U		0.3
TOXAPHENE	PEST/PCB	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8080	11/03/1994	Soil	0.3	U		0.3
TOXAPHENE	PEST/PCB	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8080	11/03/1994	Soil	0.3	U		0.3
TOXAPHENE	PEST/PCB	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8080	11/07/1994	Soil	4.5	U		4.5
TOXAPHENE	PEST/PCB	Cooling Pond	94575231SL	AP-3503	0-6'	8080	11/08/1994	Soil	0.6	U		0.6
TOXAPHENE	PEST/PCB	Cooling Pond	94575235SL	AP-3504	0-2'	8080	11/09/1994	Soil	0.6	U		0.6
TOXAPHENE	PEST/PCB	965752BH03	96575230SL	AP-3787	0	8080	10/03/1996	Soil	0.05	U	0.05	0.3
TOXAPHENE	PEST/PCB	965752BH04	96575236SL-AVG	AP-3788	0	8080	10/03/1996	Soil	0.05	U	0.05	0.3
TPH	TPH	Cooling Pond	94575240SD-AVG	SD-A	0-6"	9071/418.1	12/08/1994	Sediment	235	=		10
TPH	TPH	Cooling Pond	94575242SD	SD-B	0-6"	9071/418.1	12/08/1994	Sediment	240	=		10
TPH	TPH	Cooling Pond	94575243SD	SD-C	0-6"	9071/418.1	12/08/1994	Sediment	420	=		10
TPH	TPH	Cooling Pond	94575244SD	SD-D	0-6"	9071/418.1	12/08/1994	Sediment	290	=		10
TPH	TPH	Cooling Pond	94575245SD	SD-E	0-6"	9071/418.1	12/08/1994	Sediment	83	=		10
TPH	TPH	Cooling Pond	94575246SD	SD-F	0-6"	9071/418.1	12/08/1994	Sediment	186	=		10
TPH	TPH	Cooling Pond	94575247SD	SD-G	0-6"	9071/418.1	12/08/1994	Sediment	440	=		10
TPH	TPH	Cooling Pond	94575248SD	SD-H	0-6"	9071/418.1	12/08/1994	Sediment	260	=		10
TPH	TPH	Drum Accumulation Area	94575210SL	SS 8	2'	418.1	10/06/1994	Soil	13	=		10
TPH	TPH	Drum Accumulation Area	94575211SL	SS 7	2'	418.1	10/10/1994	Soil	14	J		10
TPH	TPH	Drum Accumulation Area	94575212SL	SS 6	2'	418.1	10/10/1994	Soil	87	J		10
TPH	TPH	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	418.1	10/10/1994	Soil	1500	J		10
TPH	TPH	Drum Accumulation Area	94575215SL	SS 4	2'	418.1	10/10/1994	Soil	35	J		10
TPH	TPH	Drum Accumulation Area	94575216SL	SS 3	2'	418.1	10/10/1994	Soil	16	J		10
TPH	TPH	Drum Accumulation Area	94575217SL	SS 2	2'	418.1	10/10/1994	Soil	27	J		10
TPH	TPH	Drum Accumulation Area	94575218SL	SS 1	2'	418.1	10/10/1994	Soil	13	J		10
TPH	TPH	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	418.1	11/03/1994	Soil	56	=		10
TPH	TPH	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	418.1	11/03/1994	Soil	10	U		10
TPH	TPH	Cooling Pond	94575229SL	AP-3502	4'-6'	418.1	11/07/1994	Soil	26	=		10
TPH	TPH	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	418.1	11/09/1994	Soil	16	=		10
TPH	TPH	Cooling Pond	94575240SL	AP-3501	5'-7'	418.1	11/11/1994	Soil	137	=		10
TPH	TPH	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	418.1	10/06/1994	Soil	104.5	=		10
TPH	TPH	Drum Accumulation Area	94575203SL	SS 2	6"	418.1	10/06/1994	Soil	28	=		10
TPH	TPH	Drum Accumulation Area	94575204SL	SS 3	6"	418.1	10/06/1994	Soil	43	=		10
TPH	TPH	Drum Accumulation Area	94575205SL	SS 4	6"	418.1	10/06/1994	Soil	270	=		10
TPH	TPH	Drum Accumulation Area	94575206SL	SS 5	6"	418.1	10/06/1994	Soil	740	=		10
TPH	TPH	Drum Accumulation Area	94575207SL	SS 6	6"	418.1	10/06/1994	Soil	41	=		10
TPH	TPH	Drum Accumulation Area	94575208SL	SS 7	6"	418.1	10/06/1994	Soil	10	U		10
TPH	TPH	Drum Accumulation Area	94575209SL	SS 8	6"	418.1	10/06/1994	Soil	48	=		10
TPH	TPH	Drum Accumulation Area	94575219SL	AP-3505	0-4'	418.1	11/03/1994	Soil	146	=		10
TPH	TPH	Drum Accumulation Area	94575223SL	AP-3506	0-2'	418.1	11/03/1994	Soil	350	=		10
TPH	TPH	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	418.1	11/07/1994	Soil	127	=		10
TPH	TPH	Cooling Pond	94575231SL	AP-3503	0-6'	418.1	11/08/1994	Soil	64	=		10
TPH	TPH	Cooling Pond	94575235SL	AP-3504	0-2'	418.1	11/09/1994	Soil	89	=		10
trans-1,2-DICHLOROETHENE	VOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
trans-1,2-DICHLOROETHENE	VOC	Cooling Pond	94575242SD	SD-B	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
trans-1,2-DICHLOROETHENE	VOC	Cooling Pond	94575243SD	SD-C	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
trans-1,2-DICHLOROETHENE	VOC	Cooling Pond	94575244SD	SD-D	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005

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Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
trans-1,2-DICHLOROETHENE	VOC	Cooling Pond	94575245SD	SD-E	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
trans-1,2-DICHLOROETHENE	VOC	Cooling Pond	94575246SD	SD-F	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
trans-1,2-DICHLOROETHENE	VOC	Cooling Pond	94575247SD	SD-G	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
trans-1,2-DICHLOROETHENE	VOC	Cooling Pond	94575248SD	SD-H	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
trans-1,2-DICHLOROETHENE	VOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8260	09/25/1996	Sediment	0.008	U	0.008	0.01
trans-1,2-DICHLOROETHENE	VOC	119 ft from DP	96575205SD	96-SD5	----	8260	09/25/1996	Sediment	0.008	U	0.008	0.01
trans-1,2-DICHLOROETHENE	VOC	147 ft from DP	96575206SD	96-SD6	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.005
trans-1,2-DICHLOROETHENE	VOC	165 ft from DP	96575208SD	96-SD8	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.005
trans-1,2-DICHLOROETHENE	VOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.005
trans-1,2-DICHLOROETHENE	VOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8260	09/25/1996	Sediment	0.02	U	0.02	0.015
trans-1,2-DICHLOROETHENE	VOC	40 ft from DP	96575202SD	96-SD2	----	8260	09/25/1996	Sediment	0.008	U	0.008	0.01
trans-1,2-DICHLOROETHENE	VOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8260	09/25/1996	Sediment	0.008	U	0.008	0.01
trans-1,2-DICHLOROETHENE	VOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.005
trans-1,2-DICHLOROETHENE	VOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8260	09/26/1996	Sediment	0.008	U	0.008	0.01
trans-1,2-DICHLOROETHENE	VOC	Drum Accumulation Area	94575210SL	SS 8	2'	8260	10/06/1994	Soil	0.005	U		0.005
trans-1,2-DICHLOROETHENE	VOC	Drum Accumulation Area	94575211SL	SS 7	2'	8260	10/10/1994	Soil	0.005	U		0.005
trans-1,2-DICHLOROETHENE	VOC	Drum Accumulation Area	94575212SL	SS 6	2'	8260	10/10/1994	Soil	0.005	U		0.005
trans-1,2-DICHLOROETHENE	VOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8260	10/10/1994	Soil	0.005	U		0.005
trans-1,2-DICHLOROETHENE	VOC	Drum Accumulation Area	94575215SL	SS 4	2'	8260	10/10/1994	Soil	0.005	U		0.005
trans-1,2-DICHLOROETHENE	VOC	Drum Accumulation Area	94575216SL	SS 3	2'	8260	10/10/1994	Soil	0.005	U		0.005
trans-1,2-DICHLOROETHENE	VOC	Drum Accumulation Area	94575217SL	SS 2	2'	8260	10/10/1994	Soil	0.005	U		0.005
trans-1,2-DICHLOROETHENE	VOC	Drum Accumulation Area	94575218SL	SS 1	2'	8260	10/10/1994	Soil	0.005	U		0.005
trans-1,2-DICHLOROETHENE	VOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8260	11/03/1994	Soil	0.005	U		0.005
trans-1,2-DICHLOROETHENE	VOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8260	11/03/1994	Soil	0.005	U		0.005
trans-1,2-DICHLOROETHENE	VOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8260	11/07/1994	Soil	0.005	U		0.005
trans-1,2-DICHLOROETHENE	VOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8260	11/09/1994	Soil	0.005	U		0.005
trans-1,2-DICHLOROETHENE	VOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8260	11/11/1994	Soil	0.005	U		0.005
trans-1,2-DICHLOROETHENE	VOC	965752BH01	96575225SL	AP-3785	5	8260	10/02/1996	Soil	0.004	U	0.004	0.004
trans-1,2-DICHLOROETHENE	VOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8260	10/03/1996	Soil	0.004	U	0.004	0.004
trans-1,2-DICHLOROETHENE	VOC	965752BH04	96575238SL	AP-3788	2.5	8260	10/03/1996	Soil	0.004	U	0.004	0.004
trans-1,2-DICHLOROETHENE	VOC	965752BH04	96575239SL-AVG	AP-3788	5	8260	10/03/1996	Soil	0.004	U	0.004	0.004
trans-1,2-DICHLOROETHENE	VOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8260	10/06/1994	Soil	0.005	U		0.005
trans-1,2-DICHLOROETHENE	VOC	Drum Accumulation Area	94575203SL	SS 2	6"	8260	10/06/1994	Soil	0.005	U		0.005
trans-1,2-DICHLOROETHENE	VOC	Drum Accumulation Area	94575204SL	SS 3	6"	8260	10/06/1994	Soil	0.005	U		0.005
trans-1,2-DICHLOROETHENE	VOC	Drum Accumulation Area	94575205SL	SS 4	6"	8260	10/06/1994	Soil	0.005	U		0.005
trans-1,2-DICHLOROETHENE	VOC	Drum Accumulation Area	94575206SL	SS 5	6"	8260	10/06/1994	Soil	0.005	U		0.005
trans-1,2-DICHLOROETHENE	VOC	Drum Accumulation Area	94575207SL	SS 6	6"	8260	10/06/1994	Soil	0.005	U		0.005
trans-1,2-DICHLOROETHENE	VOC	Drum Accumulation Area	94575208SL	SS 7	6"	8260	10/06/1994	Soil	0.005	U		0.005
trans-1,2-DICHLOROETHENE	VOC	Drum Accumulation Area	94575209SL	SS 8	6"	8260	10/06/1994	Soil	0.005	U		0.005
trans-1,2-DICHLOROETHENE	VOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8260	11/03/1994	Soil	0.005	U		0.005
trans-1,2-DICHLOROETHENE	VOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8260	11/03/1994	Soil	0.005	U		0.005
trans-1,2-DICHLOROETHENE	VOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8260	11/07/1994	Soil	0.005	U		0.005
trans-1,2-DICHLOROETHENE	VOC	Cooling Pond	94575231SL	AP-3503	0-6'	8260	11/08/1994	Soil	0.005	U		0.005
trans-1,2-DICHLOROETHENE	VOC	Cooling Pond	94575235SL	AP-3504	0-2'	8260	11/09/1994	Soil	0.005	U		0.005
trans-1,2-DICHLOROETHENE	VOC	965752BH03	96575230SL	AP-3787	0	8260	10/03/1996	Soil	0.004	U	0.004	0.005
trans-1,2-DICHLOROETHENE	VOC	965752BH04	96575236SL-AVG	AP-3788	0	8260	10/03/1996	Soil	0.004	U	0.004	0.005
trans-1,3-DICHLOROPROPENE	VOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
trans-1,3-DICHLOROPROPENE	VOC	Cooling Pond	94575242SD	SD-B	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
trans-1,3-DICHLOROPROPENE	VOC	Cooling Pond	94575243SD	SD-C	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
trans-1,3-DICHLOROPROPENE	VOC	Cooling Pond	94575244SD	SD-D	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
trans-1,3-DICHLOROPROPENE	VOC	Cooling Pond	94575245SD	SD-E	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
trans-1,3-DICHLOROPROPENE	VOC	Cooling Pond	94575246SD	SD-F	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
trans-1,3-DICHLOROPROPENE	VOC	Cooling Pond	94575247SD	SD-G	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
trans-1,3-DICHLOROPROPENE	VOC	Cooling Pond	94575248SD	SD-H	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
trans-1,3-DICHLOROPROPENE	VOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
trans-1,3-DICHLOROPROPENE	VOC	119 ft from DP	96575205SD	96-SD5	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
trans-1,3-DICHLOROPROPENE	VOC	147 ft from DP	96575206SD	96-SD6	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
trans-1,3-DICHLOROPROPENE	VOC	165 ft from DP	96575208SD	96-SD8	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
trans-1,3-DICHLOROPROPENE	VOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
trans-1,3-DICHLOROPROPENE	VOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8260	09/25/1996	Sediment	0.006	U	0.006	0.015
trans-1,3-DICHLOROPROPENE	VOC	40 ft from DP	96575202SD	96-SD2	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01
trans-1,3-DICHLOROPROPENE	VOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8260	09/25/1996	Sediment	0.004	U	0.004	0.01

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
trans-1,3-DICHLOROPROPENE	VOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.005
trans-1,3-DICHLOROPROPENE	VOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8260	09/26/1996	Sediment	0.004	U	0.004	0.01
trans-1,3-DICHLOROPROPENE	VOC	Drum Accumulation Area	94575210SL	SS 8	2'	8260	10/06/1994	Soil	0.005	U		0.005
trans-1,3-DICHLOROPROPENE	VOC	Drum Accumulation Area	94575211SL	SS 7	2'	8260	10/10/1994	Soil	0.005	U		0.005
trans-1,3-DICHLOROPROPENE	VOC	Drum Accumulation Area	94575212SL	SS 6	2'	8260	10/10/1994	Soil	0.005	U		0.005
trans-1,3-DICHLOROPROPENE	VOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8260	10/10/1994	Soil	0.005	U		0.005
trans-1,3-DICHLOROPROPENE	VOC	Drum Accumulation Area	94575215SL	SS 4	2'	8260	10/10/1994	Soil	0.005	U		0.005
trans-1,3-DICHLOROPROPENE	VOC	Drum Accumulation Area	94575216SL	SS 3	2'	8260	10/10/1994	Soil	0.005	U		0.005
trans-1,3-DICHLOROPROPENE	VOC	Drum Accumulation Area	94575217SL	SS 2	2'	8260	10/10/1994	Soil	0.005	U		0.005
trans-1,3-DICHLOROPROPENE	VOC	Drum Accumulation Area	94575218SL	SS 1	2'	8260	10/10/1994	Soil	0.005	U		0.005
trans-1,3-DICHLOROPROPENE	VOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8260	11/03/1994	Soil	0.005	U		0.005
trans-1,3-DICHLOROPROPENE	VOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8260	11/03/1994	Soil	0.005	U		0.005
trans-1,3-DICHLOROPROPENE	VOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8260	11/07/1994	Soil	0.005	U		0.005
trans-1,3-DICHLOROPROPENE	VOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8260	11/09/1994	Soil	0.005	U		0.005
trans-1,3-DICHLOROPROPENE	VOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8260	11/11/1994	Soil	0.005	U		0.005
trans-1,3-DICHLOROPROPENE	VOC	965752BH01	96575225SL	AP-3785	5	8260	10/02/1996	Soil	0.002	U	0.002	0.002
trans-1,3-DICHLOROPROPENE	VOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
trans-1,3-DICHLOROPROPENE	VOC	965752BH04	96575238SL	AP-3788	2.5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
trans-1,3-DICHLOROPROPENE	VOC	965752BH04	96575239SL-AVG	AP-3788	5	8260	10/03/1996	Soil	0.002	U	0.002	0.002
trans-1,3-DICHLOROPROPENE	VOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8260	10/06/1994	Soil	0.005	U		0.005
trans-1,3-DICHLOROPROPENE	VOC	Drum Accumulation Area	94575203SL	SS 2	6"	8260	10/06/1994	Soil	0.005	U		0.005
trans-1,3-DICHLOROPROPENE	VOC	Drum Accumulation Area	94575204SL	SS 3	6"	8260	10/06/1994	Soil	0.005	U		0.005
trans-1,3-DICHLOROPROPENE	VOC	Drum Accumulation Area	94575205SL	SS 4	6"	8260	10/06/1994	Soil	0.005	U		0.005
trans-1,3-DICHLOROPROPENE	VOC	Drum Accumulation Area	94575206SL	SS 5	6"	8260	10/06/1994	Soil	0.005	U		0.005
trans-1,3-DICHLOROPROPENE	VOC	Drum Accumulation Area	94575207SL	SS 6	6"	8260	10/06/1994	Soil	0.005	U		0.005
trans-1,3-DICHLOROPROPENE	VOC	Drum Accumulation Area	94575208SL	SS 7	6"	8260	10/06/1994	Soil	0.005	U		0.005
trans-1,3-DICHLOROPROPENE	VOC	Drum Accumulation Area	94575209SL	SS 8	6"	8260	10/06/1994	Soil	0.005	U		0.005
trans-1,3-DICHLOROPROPENE	VOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8260	11/03/1994	Soil	0.005	U		0.005
trans-1,3-DICHLOROPROPENE	VOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8260	11/03/1994	Soil	0.005	U		0.005
trans-1,3-DICHLOROPROPENE	VOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8260	11/07/1994	Soil	0.005	U		0.005
trans-1,3-DICHLOROPROPENE	VOC	Cooling Pond	94575231SL	AP-3503	0-6'	8260	11/08/1994	Soil	0.005	U		0.005
trans-1,3-DICHLOROPROPENE	VOC	Cooling Pond	94575235SL	AP-3504	0-2'	8260	11/09/1994	Soil	0.005	U		0.005
trans-1,3-DICHLOROPROPENE	VOC	965752BH03	96575230SL	AP-3787	0	8260	10/03/1996	Soil	0.002	U	0.002	0.005
trans-1,3-DICHLOROPROPENE	VOC	965752BH04	96575236SL-AVG	AP-3788	0	8260	10/03/1996	Soil	0.002	U	0.002	0.005
TRICHLOROETHYLENE (TCE)	VOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
TRICHLOROETHYLENE (TCE)	VOC	Cooling Pond	94575242SD	SD-B	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
TRICHLOROETHYLENE (TCE)	VOC	Cooling Pond	94575243SD	SD-C	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
TRICHLOROETHYLENE (TCE)	VOC	Cooling Pond	94575244SD	SD-D	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
TRICHLOROETHYLENE (TCE)	VOC	Cooling Pond	94575245SD	SD-E	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
TRICHLOROETHYLENE (TCE)	VOC	Cooling Pond	94575246SD	SD-F	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
TRICHLOROETHYLENE (TCE)	VOC	Cooling Pond	94575247SD	SD-G	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
TRICHLOROETHYLENE (TCE)	VOC	Cooling Pond	94575248SD	SD-H	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
TRICHLOROETHYLENE (TCE)	VOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.01
TRICHLOROETHYLENE (TCE)	VOC	119 ft from DP	96575205SD	96-SD5	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.01
TRICHLOROETHYLENE (TCE)	VOC	147 ft from DP	96575206SD	96-SD6	----	8260	09/25/1996	Sediment	0.001	U	0.001	0.005
TRICHLOROETHYLENE (TCE)	VOC	165 ft from DP	96575208SD	96-SD8	----	8260	09/25/1996	Sediment	0.001	U	0.001	0.005
TRICHLOROETHYLENE (TCE)	VOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8260	09/25/1996	Sediment	0.001	U	0.001	0.005
TRICHLOROETHYLENE (TCE)	VOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8260	09/25/1996	Sediment	0.003	U	0.003	0.015
TRICHLOROETHYLENE (TCE)	VOC	40 ft from DP	96575202SD	96-SD2	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.01
TRICHLOROETHYLENE (TCE)	VOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.01
TRICHLOROETHYLENE (TCE)	VOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8260	09/25/1996	Sediment	0.001	U	0.001	0.005
TRICHLOROETHYLENE (TCE)	VOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8260	09/26/1996	Sediment	0.002	U	0.002	0.01
TRICHLOROETHYLENE (TCE)	VOC	Drum Accumulation Area	94575210SL	SS 8	2'	8260	10/06/1994	Soil	0.005	U		0.005
TRICHLOROETHYLENE (TCE)	VOC	Drum Accumulation Area	94575211SL	SS 7	2'	8260	10/10/1994	Soil	0.005	U		0.005
TRICHLOROETHYLENE (TCE)	VOC	Drum Accumulation Area	94575212SL	SS 6	2'	8260	10/10/1994	Soil	0.005	U		0.005
TRICHLOROETHYLENE (TCE)	VOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8260	10/10/1994	Soil	0.005	U		0.005
TRICHLOROETHYLENE (TCE)	VOC	Drum Accumulation Area	94575215SL	SS 4	2'	8260	10/10/1994	Soil	0.005	U		0.005
TRICHLOROETHYLENE (TCE)	VOC	Drum Accumulation Area	94575216SL	SS 3	2'	8260	10/10/1994	Soil	0.005	U		0.005
TRICHLOROETHYLENE (TCE)	VOC	Drum Accumulation Area	94575217SL	SS 2	2'	8260	10/10/1994	Soil	0.005	U		0.005
TRICHLOROETHYLENE (TCE)	VOC	Drum Accumulation Area	94575218SL	SS 1	2'	8260	10/10/1994	Soil	0.005	U		0.005
TRICHLOROETHYLENE (TCE)	VOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8260	11/03/1994	Soil	0.006	=		0.005
TRICHLOROETHYLENE (TCE)	VOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8260	11/03/1994	Soil	0.005	U		0.005

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
TRICHLOROETHYLENE (TCE)	VOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8260	11/07/1994	Soil	0.006	=		0.005
TRICHLOROETHYLENE (TCE)	VOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8260	11/09/1994	Soil	0.0155	=		0.005
TRICHLOROETHYLENE (TCE)	VOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8260	11/11/1994	Soil	0.005	U		0.005
TRICHLOROETHYLENE (TCE)	VOC	965752BH01	96575225SL	AP-3785	5	8260	10/02/1996	Soil	0.001	U	0.001	0.001
TRICHLOROETHYLENE (TCE)	VOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8260	10/03/1996	Soil	0.001	U	0.001	0.001
TRICHLOROETHYLENE (TCE)	VOC	965752BH04	96575238SL	AP-3788	2.5	8260	10/03/1996	Soil	0.001	U	0.001	0.001
TRICHLOROETHYLENE (TCE)	VOC	965752BH04	96575239SL-AVG	AP-3788	5	8260	10/03/1996	Soil	0.001	U	0.001	0.001
TRICHLOROETHYLENE (TCE)	VOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8260	10/06/1994	Soil	0.005	U		0.005
TRICHLOROETHYLENE (TCE)	VOC	Drum Accumulation Area	94575203SL	SS 2	6"	8260	10/06/1994	Soil	0.005	U		0.005
TRICHLOROETHYLENE (TCE)	VOC	Drum Accumulation Area	94575204SL	SS 3	6"	8260	10/06/1994	Soil	0.005	U		0.005
TRICHLOROETHYLENE (TCE)	VOC	Drum Accumulation Area	94575205SL	SS 4	6"	8260	10/06/1994	Soil	0.005	U		0.005
TRICHLOROETHYLENE (TCE)	VOC	Drum Accumulation Area	94575206SL	SS 5	6"	8260	10/06/1994	Soil	0.005	U		0.005
TRICHLOROETHYLENE (TCE)	VOC	Drum Accumulation Area	94575207SL	SS 6	6"	8260	10/06/1994	Soil	0.005	U		0.005
TRICHLOROETHYLENE (TCE)	VOC	Drum Accumulation Area	94575208SL	SS 7	6"	8260	10/06/1994	Soil	0.005	U		0.005
TRICHLOROETHYLENE (TCE)	VOC	Drum Accumulation Area	94575209SL	SS 8	6"	8260	10/06/1994	Soil	0.005	U		0.005
TRICHLOROETHYLENE (TCE)	VOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8260	11/03/1994	Soil	0.01	=		0.005
TRICHLOROETHYLENE (TCE)	VOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8260	11/03/1994	Soil	0.005	U		0.005
TRICHLOROETHYLENE (TCE)	VOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8260	11/07/1994	Soil	0.005	U		0.005
TRICHLOROETHYLENE (TCE)	VOC	Cooling Pond	94575231SL	AP-3503	0-6'	8260	11/08/1994	Soil	0.005	U		0.005
TRICHLOROETHYLENE (TCE)	VOC	Cooling Pond	94575235SL	AP-3504	0-2'	8260	11/09/1994	Soil	0.005	U		0.005
TRICHLOROETHYLENE (TCE)	VOC	965752BH03	96575230SL	AP-3787	0	8260	10/03/1996	Soil	0.001	U	0.001	0.005
TRICHLOROETHYLENE (TCE)	VOC	965752BH04	96575236SL-AVG	AP-3788	0	8260	10/03/1996	Soil	0.001	U	0.001	0.005
TRICHLOROFLUOROMETHANE	VOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
TRICHLOROFLUOROMETHANE	VOC	Cooling Pond	94575242SD	SD-B	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
TRICHLOROFLUOROMETHANE	VOC	Cooling Pond	94575243SD	SD-C	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
TRICHLOROFLUOROMETHANE	VOC	Cooling Pond	94575244SD	SD-D	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
TRICHLOROFLUOROMETHANE	VOC	Cooling Pond	94575245SD	SD-E	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
TRICHLOROFLUOROMETHANE	VOC	Cooling Pond	94575246SD	SD-F	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
TRICHLOROFLUOROMETHANE	VOC	Cooling Pond	94575247SD	SD-G	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
TRICHLOROFLUOROMETHANE	VOC	Cooling Pond	94575248SD	SD-H	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
TRICHLOROFLUOROMETHANE	VOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.01
TRICHLOROFLUOROMETHANE	VOC	119 ft from DP	96575205SD	96-SD5	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.01
TRICHLOROFLUOROMETHANE	VOC	147 ft from DP	96575206SD	96-SD6	----	8260	09/25/1996	Sediment	0.0007	U	0.0007	0.005
TRICHLOROFLUOROMETHANE	VOC	165 ft from DP	96575208SD	96-SD8	----	8260	09/25/1996	Sediment	0.0007	U	0.0007	0.005
TRICHLOROFLUOROMETHANE	VOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8260	09/25/1996	Sediment	0.0007	U	0.0007	0.005
TRICHLOROFLUOROMETHANE	VOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8260	09/25/1996	Sediment	0.003	U	0.003	0.015
TRICHLOROFLUOROMETHANE	VOC	40 ft from DP	96575202SD	96-SD2	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.01
TRICHLOROFLUOROMETHANE	VOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.01
TRICHLOROFLUOROMETHANE	VOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8260	09/25/1996	Sediment	0.0007	U	0.0007	0.005
TRICHLOROFLUOROMETHANE	VOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8260	09/26/1996	Sediment	0.002	U	0.002	0.01
TRICHLOROFLUOROMETHANE	VOC	Drum Accumulation Area	94575210SL	SS 8	2'	8260	10/06/1994	Soil	0.005	U		0.005
TRICHLOROFLUOROMETHANE	VOC	Drum Accumulation Area	94575211SL	SS 7	2'	8260	10/10/1994	Soil	0.005	U		0.005
TRICHLOROFLUOROMETHANE	VOC	Drum Accumulation Area	94575212SL	SS 6	2'	8260	10/10/1994	Soil	0.005	U		0.005
TRICHLOROFLUOROMETHANE	VOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8260	10/10/1994	Soil	0.005	U		0.005
TRICHLOROFLUOROMETHANE	VOC	Drum Accumulation Area	94575215SL	SS 4	2'	8260	10/10/1994	Soil	0.005	U		0.005
TRICHLOROFLUOROMETHANE	VOC	Drum Accumulation Area	94575216SL	SS 3	2'	8260	10/10/1994	Soil	0.005	U		0.005
TRICHLOROFLUOROMETHANE	VOC	Drum Accumulation Area	94575217SL	SS 2	2'	8260	10/10/1994	Soil	0.005	U		0.005
TRICHLOROFLUOROMETHANE	VOC	Drum Accumulation Area	94575218SL	SS 1	2'	8260	10/10/1994	Soil	0.005	U		0.005
TRICHLOROFLUOROMETHANE	VOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8260	11/03/1994	Soil	0.005	U		0.005
TRICHLOROFLUOROMETHANE	VOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8260	11/03/1994	Soil	0.005	U		0.005
TRICHLOROFLUOROMETHANE	VOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8260	11/07/1994	Soil	0.005	U		0.005
TRICHLOROFLUOROMETHANE	VOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8260	11/09/1994	Soil	0.005	U		0.005
TRICHLOROFLUOROMETHANE	VOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8260	11/11/1994	Soil	0.005	U		0.005
TRICHLOROFLUOROMETHANE	VOC	965752BH01	96575225SL	AP-3785	5	8260	10/02/1996	Soil	0.0007	U	0.0007	0.0007
TRICHLOROFLUOROMETHANE	VOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8260	10/03/1996	Soil	0.0007	U	0.0007	0.0007
TRICHLOROFLUOROMETHANE	VOC	965752BH04	96575238SL	AP-3788	2.5	8260	10/03/1996	Soil	0.0007	U	0.0007	0.0007
TRICHLOROFLUOROMETHANE	VOC	965752BH04	96575239SL-AVG	AP-3788	5	8260	10/03/1996	Soil	0.0007	U	0.0007	0.0007
TRICHLOROFLUOROMETHANE	VOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8260	10/06/1994	Soil	0.005	U		0.005
TRICHLOROFLUOROMETHANE	VOC	Drum Accumulation Area	94575203SL	SS 2	6"	8260	10/06/1994	Soil	0.005	U		0.005
TRICHLOROFLUOROMETHANE	VOC	Drum Accumulation Area	94575204SL	SS 3	6"	8260	10/06/1994	Soil	0.005	U		0.005
TRICHLOROFLUOROMETHANE	VOC	Drum Accumulation Area	94575205SL	SS 4	6"	8260	10/06/1994	Soil	0.005	U		0.005
TRICHLOROFLUOROMETHANE	VOC	Drum Accumulation Area	94575206SL	SS 5	6"	8260	10/06/1994	Soil	0.005	U		0.005

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
TRICHLOROFLUOROMETHANE	VOC	Drum Accumulation Area	94575207SL	SS 6	6"	8260	10/06/1994	Soil	0.005	U		0.005
TRICHLOROFLUOROMETHANE	VOC	Drum Accumulation Area	94575208SL	SS 7	6"	8260	10/06/1994	Soil	0.005	U		0.005
TRICHLOROFLUOROMETHANE	VOC	Drum Accumulation Area	94575209SL	SS 8	6"	8260	10/06/1994	Soil	0.005	U		0.005
TRICHLOROFLUOROMETHANE	VOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8260	11/03/1994	Soil	0.005	U		0.005
TRICHLOROFLUOROMETHANE	VOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8260	11/03/1994	Soil	0.005	U		0.005
TRICHLOROFLUOROMETHANE	VOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8260	11/07/1994	Soil	0.005	U		0.005
TRICHLOROFLUOROMETHANE	VOC	Cooling Pond	94575231SL	AP-3503	0-6'	8260	11/08/1994	Soil	0.005	U		0.005
TRICHLOROFLUOROMETHANE	VOC	Cooling Pond	94575235SL	AP-3504	0-2'	8260	11/09/1994	Soil	0.005	U		0.005
TRICHLOROFLUOROMETHANE	VOC	965752BH03	96575230SL	AP-3787	0	8260	10/03/1996	Soil	0.0007	U	0.0007	0.005
TRICHLOROFLUOROMETHANE	VOC	965752BH04	96575236SL-AVG	AP-3788	0	8260	10/03/1996	Soil	0.0007	U	0.0007	0.005
VANADIUM	METAL	Drum Accumulation Area	94575210SL	SS 8	2'	METALS	10/06/1994	Soil	50	=		2
VANADIUM	METAL	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	METALS	10/06/1994	Soil	51	=		2
VANADIUM	METAL	Drum Accumulation Area	94575203SL	SS 2	6"	METALS	10/06/1994	Soil	41	=		2
VANADIUM	METAL	Drum Accumulation Area	94575204SL	SS 3	6"	METALS	10/06/1994	Soil	60	=		2
VANADIUM	METAL	Drum Accumulation Area	94575205SL	SS 4	6"	METALS	10/06/1994	Soil	46	=		2
VANADIUM	METAL	Drum Accumulation Area	94575206SL	SS 5	6"	METALS	10/06/1994	Soil	28	=		2
VANADIUM	METAL	Drum Accumulation Area	94575207SL	SS 6	6"	METALS	10/06/1994	Soil	41	=		2
VANADIUM	METAL	Drum Accumulation Area	94575208SL	SS 7	6"	METALS	10/06/1994	Soil	47	=		2
VANADIUM	METAL	Drum Accumulation Area	94575209SL	SS 8	6"	METALS	10/06/1994	Soil	50	=		2
VINYL CHLORIDE	VOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
VINYL CHLORIDE	VOC	Cooling Pond	94575242SD	SD-B	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
VINYL CHLORIDE	VOC	Cooling Pond	94575243SD	SD-C	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
VINYL CHLORIDE	VOC	Cooling Pond	94575244SD	SD-D	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
VINYL CHLORIDE	VOC	Cooling Pond	94575245SD	SD-E	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
VINYL CHLORIDE	VOC	Cooling Pond	94575246SD	SD-F	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
VINYL CHLORIDE	VOC	Cooling Pond	94575247SD	SD-G	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
VINYL CHLORIDE	VOC	Cooling Pond	94575248SD	SD-H	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
VINYL CHLORIDE	VOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.01
VINYL CHLORIDE	VOC	119 ft from DP	96575205SD	96-SD5	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.01
VINYL CHLORIDE	VOC	147 ft from DP	96575206SD	96-SD6	----	8260	09/25/1996	Sediment	0.0007	U	0.0007	0.005
VINYL CHLORIDE	VOC	165 ft from DP	96575208SD	96-SD8	----	8260	09/25/1996	Sediment	0.0007	U	0.0007	0.005
VINYL CHLORIDE	VOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8260	09/25/1996	Sediment	0.0007	U	0.0007	0.005
VINYL CHLORIDE	VOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8260	09/25/1996	Sediment	0.003	U	0.003	0.015
VINYL CHLORIDE	VOC	40 ft from DP	96575202SD	96-SD2	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.01
VINYL CHLORIDE	VOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8260	09/25/1996	Sediment	0.002	U	0.002	0.01
VINYL CHLORIDE	VOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8260	09/25/1996	Sediment	0.0007	U	0.0007	0.005
VINYL CHLORIDE	VOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8260	09/26/1996	Sediment	0.002	U	0.002	0.01
VINYL CHLORIDE	VOC	Drum Accumulation Area	94575210SL	SS 8	2'	8260	10/06/1994	Soil	0.005	U		0.005
VINYL CHLORIDE	VOC	Drum Accumulation Area	94575211SL	SS 7	2'	8260	10/10/1994	Soil	0.005	U		0.005
VINYL CHLORIDE	VOC	Drum Accumulation Area	94575212SL	SS 6	2'	8260	10/10/1994	Soil	0.005	U		0.005
VINYL CHLORIDE	VOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8260	10/10/1994	Soil	0.005	U		0.005
VINYL CHLORIDE	VOC	Drum Accumulation Area	94575215SL	SS 4	2'	8260	10/10/1994	Soil	0.005	U		0.005
VINYL CHLORIDE	VOC	Drum Accumulation Area	94575216SL	SS 3	2'	8260	10/10/1994	Soil	0.005	U		0.005
VINYL CHLORIDE	VOC	Drum Accumulation Area	94575217SL	SS 2	2'	8260	10/10/1994	Soil	0.005	U		0.005
VINYL CHLORIDE	VOC	Drum Accumulation Area	94575218SL	SS 1	2'	8260	10/10/1994	Soil	0.005	U		0.005
VINYL CHLORIDE	VOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8260	11/03/1994	Soil	0.005	U		0.005
VINYL CHLORIDE	VOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8260	11/03/1994	Soil	0.005	U		0.005
VINYL CHLORIDE	VOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8260	11/07/1994	Soil	0.005	U		0.005
VINYL CHLORIDE	VOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8260	11/09/1994	Soil	0.005	U		0.005
VINYL CHLORIDE	VOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8260	11/11/1994	Soil	0.005	U		0.005
VINYL CHLORIDE	VOC	965752BH01	96575225SL	AP-3785	5	8260	10/02/1996	Soil	0.0007	U	0.0007	0.0007
VINYL CHLORIDE	VOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8260	10/03/1996	Soil	0.0007	U	0.0007	0.0007
VINYL CHLORIDE	VOC	965752BH04	96575238SL	AP-3788	2.5	8260	10/03/1996	Soil	0.0007	U	0.0007	0.0007
VINYL CHLORIDE	VOC	965752BH04	96575239SL-AVG	AP-3788	5	8260	10/03/1996	Soil	0.0007	U	0.0007	0.0007
VINYL CHLORIDE	VOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8260	10/06/1994	Soil	0.005	U		0.005
VINYL CHLORIDE	VOC	Drum Accumulation Area	94575203SL	SS 2	6"	8260	10/06/1994	Soil	0.005	U		0.005
VINYL CHLORIDE	VOC	Drum Accumulation Area	94575204SL	SS 3	6"	8260	10/06/1994	Soil	0.005	U		0.005
VINYL CHLORIDE	VOC	Drum Accumulation Area	94575205SL	SS 4	6"	8260	10/06/1994	Soil	0.005	U		0.005
VINYL CHLORIDE	VOC	Drum Accumulation Area	94575206SL	SS 5	6"	8260	10/06/1994	Soil	0.005	U		0.005
VINYL CHLORIDE	VOC	Drum Accumulation Area	94575207SL	SS 6	6"	8260	10/06/1994	Soil	0.005	U		0.005
VINYL CHLORIDE	VOC	Drum Accumulation Area	94575208SL	SS 7	6"	8260	10/06/1994	Soil	0.005	U		0.005
VINYL CHLORIDE	VOC	Drum Accumulation Area	94575209SL	SS 8	6"	8260	10/06/1994	Soil	0.005	U		0.005

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
VINYL CHLORIDE	VOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8260	11/03/1994	Soil	0.005	U		0.005
VINYL CHLORIDE	VOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8260	11/03/1994	Soil	0.005	U		0.005
VINYL CHLORIDE	VOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8260	11/07/1994	Soil	0.005	U		0.005
VINYL CHLORIDE	VOC	Cooling Pond	94575231SL	AP-3503	0-6'	8260	11/08/1994	Soil	0.005	U		0.005
VINYL CHLORIDE	VOC	Cooling Pond	94575235SL	AP-3504	0-2'	8260	11/09/1994	Soil	0.005	U		0.005
VINYL CHLORIDE	VOC	965752BH03	96575230SL	AP-3787	0	8260	10/03/1996	Soil	0.0007	U	0.0007	0.005
VINYL CHLORIDE	VOC	965752BH04	96575236SL-AVG	AP-3788	0	8260	10/03/1996	Soil	0.0007	U	0.0007	0.005
XYLENES, o & p	VOC	Tank 1109; BH-12	90FRUST86 soil	AP-2982	5-6.5'	8020	08/21/1990	Soil	0.012	U		0.012
XYLENES, o & p	VOC	Tank 1109; BH-13	90FRUST90 soil	AP-2983	5-5.5'	8020	08/21/1990	Soil	0.011	U		0.011
XYLENES, TOTAL	VOC	Cooling Pond	94575240SD-AVG	SD-A	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
XYLENES, TOTAL	VOC	Cooling Pond	94575242SD	SD-B	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
XYLENES, TOTAL	VOC	Cooling Pond	94575243SD	SD-C	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
XYLENES, TOTAL	VOC	Cooling Pond	94575244SD	SD-D	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
XYLENES, TOTAL	VOC	Cooling Pond	94575245SD	SD-E	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
XYLENES, TOTAL	VOC	Cooling Pond	94575246SD	SD-F	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
XYLENES, TOTAL	VOC	Cooling Pond	94575247SD	SD-G	0-6"	8260	12/08/1994	Sediment	0.01	U		0.01
XYLENES, TOTAL	VOC	Cooling Pond	94575248SD	SD-H	0-6"	8260	12/08/1994	Sediment	0.005	U		0.005
XYLENES, TOTAL	VOC	100 ft from outfall to drainage ditch	96575210SD	96-SD10	----	8260	09/25/1996	Sediment	0.006	U	0.006	0.01
XYLENES, TOTAL	VOC	119 ft from DP	96575205SD	96-SD5	----	8260	09/25/1996	Sediment	0.006	U	0.006	0.01
XYLENES, TOTAL	VOC	147 ft from DP	96575206SD	96-SD6	----	8260	09/25/1996	Sediment	0.003	U	0.003	0.005
XYLENES, TOTAL	VOC	165 ft from DP	96575208SD	96-SD8	----	8260	09/25/1996	Sediment	0.003	U	0.003	0.005
XYLENES, TOTAL	VOC	171 ft from DP (east side)	96575209SD	96-SD9	----	8260	09/25/1996	Sediment	0.003	U	0.003	0.005
XYLENES, TOTAL	VOC	171 ft from DP (west side)	96575207SD	96-SD7	----	8260	09/25/1996	Sediment	0.009	U	0.009	0.015
XYLENES, TOTAL	VOC	40 ft from DP	96575202SD	96-SD2	----	8260	09/25/1996	Sediment	0.006	U	0.006	0.01
XYLENES, TOTAL	VOC	79 ft from DP	96575203SD-AVG	96-SD3	----	8260	09/25/1996	Sediment	0.006	U	0.006	0.01
XYLENES, TOTAL	VOC	Discharge pipe (DP)	96575201SD	96-SD1	----	8260	09/25/1996	Sediment	0.003	U	0.003	0.005
XYLENES, TOTAL	VOC	200 ft from outfall to drainage ditch	96575211SD	96-SD11	----	8260	09/26/1996	Sediment	0.006	U	0.006	0.01
XYLENES, TOTAL	VOC	Drum Accumulation Area	94575210SL	SS 8	2'	8260	10/06/1994	Soil	0.005	U		0.005
XYLENES, TOTAL	VOC	Drum Accumulation Area	94575211SL	SS 7	2'	8260	10/10/1994	Soil	0.005	U		0.005
XYLENES, TOTAL	VOC	Drum Accumulation Area	94575212SL	SS 6	2'	8260	10/10/1994	Soil	0.005	U		0.005
XYLENES, TOTAL	VOC	Drum Accumulation Area	94575213SL-AVG	SS 5	2'	8260	10/10/1994	Soil	0.005	U		0.005
XYLENES, TOTAL	VOC	Drum Accumulation Area	94575215SL	SS 4	2'	8260	10/10/1994	Soil	0.005	U		0.005
XYLENES, TOTAL	VOC	Drum Accumulation Area	94575216SL	SS 3	2'	8260	10/10/1994	Soil	0.005	U		0.005
XYLENES, TOTAL	VOC	Drum Accumulation Area	94575217SL	SS 2	2'	8260	10/10/1994	Soil	0.038	=		0.005
XYLENES, TOTAL	VOC	Drum Accumulation Area	94575218SL	SS 1	2'	8260	10/10/1994	Soil	0.005	U		0.005
XYLENES, TOTAL	VOC	Drum Accumulation Area	94575220SL	AP-3505	4'-6'	8260	11/03/1994	Soil	0.006	=		0.005
XYLENES, TOTAL	VOC	Drum Accumulation Area	94575224SL	AP-3506	4'-8'	8260	11/03/1994	Soil	0.005	U		0.005
XYLENES, TOTAL	VOC	Cooling Pond	94575229SL	AP-3502	4'-6'	8260	11/07/1994	Soil	0.005	U		0.005
XYLENES, TOTAL	VOC	Cooling Pond	94575236SL-AVG	AP-3504	4'-10'	8260	11/09/1994	Soil	0.005	U		0.005
XYLENES, TOTAL	VOC	Cooling Pond	94575240SL	AP-3501	5'-7'	8260	11/11/1994	Soil	0.005	U		0.005
XYLENES, TOTAL	VOC	965752BH01	96575225SL	AP-3785	5	8260	10/02/1996	Soil	0.003	U	0.003	0.003
XYLENES, TOTAL	VOC	965752BH03	96575231SL-AVG	AP-3787	2.5	8260	10/03/1996	Soil	0.003	U	0.003	0.003
XYLENES, TOTAL	VOC	965752BH04	96575238SL	AP-3788	2.5	8260	10/03/1996	Soil	0.003	U	0.003	0.003
XYLENES, TOTAL	VOC	965752BH04	96575239SL-AVG	AP-3788	5	8260	10/03/1996	Soil	0.003	U	0.003	0.003
XYLENES, TOTAL	VOC	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	8260	10/06/1994	Soil	0.005	U		0.005
XYLENES, TOTAL	VOC	Drum Accumulation Area	94575203SL	SS 2	6"	8260	10/06/1994	Soil	0.005	U		0.005
XYLENES, TOTAL	VOC	Drum Accumulation Area	94575204SL	SS 3	6"	8260	10/06/1994	Soil	0.006	=		0.005
XYLENES, TOTAL	VOC	Drum Accumulation Area	94575205SL	SS 4	6"	8260	10/06/1994	Soil	0.006	=		0.005
XYLENES, TOTAL	VOC	Drum Accumulation Area	94575206SL	SS 5	6"	8260	10/06/1994	Soil	0.005	U		0.005
XYLENES, TOTAL	VOC	Drum Accumulation Area	94575207SL	SS 6	6"	8260	10/06/1994	Soil	0.005	U		0.005
XYLENES, TOTAL	VOC	Drum Accumulation Area	94575208SL	SS 7	6"	8260	10/06/1994	Soil	0.005	U		0.005
XYLENES, TOTAL	VOC	Drum Accumulation Area	94575209SL	SS 8	6"	8260	10/06/1994	Soil	0.005	U		0.005
XYLENES, TOTAL	VOC	Drum Accumulation Area	94575219SL	AP-3505	0-4'	8260	11/03/1994	Soil	0.009	=		0.005
XYLENES, TOTAL	VOC	Drum Accumulation Area	94575223SL	AP-3506	0-2'	8260	11/03/1994	Soil	0.005	U		0.005
XYLENES, TOTAL	VOC	Cooling Pond	94575227SL-AVG	AP-3502	0-4'	8260	11/07/1994	Soil	0.0135	=		0.005
XYLENES, TOTAL	VOC	Cooling Pond	94575231SL	AP-3503	0-6'	8260	11/08/1994	Soil	0.005	U		0.005
XYLENES, TOTAL	VOC	Cooling Pond	94575235SL	AP-3504	0-2'	8260	11/09/1994	Soil	0.008	=		0.005
XYLENES, TOTAL	VOC	965752BH03	96575230SL	AP-3787	0	8260	10/03/1996	Soil	0.003	U	0.003	0.005
XYLENES, TOTAL	VOC	965752BH04	96575236SL-AVG	AP-3788	0	8260	10/03/1996	Soil	0.003	U	0.003	0.005
ZINC	METAL	Drum Accumulation Area	94575210SL	SS 8	2'	METALS	10/06/1994	Soil	63	=		2
ZINC	METAL	Drum Accumulation Area	94575201SL-AVG	SS 1	6"	METALS	10/06/1994	Soil	64.5	=		2
ZINC	METAL	Drum Accumulation Area	94575203SL	SS 2	6"	METALS	10/06/1994	Soil	52	=		2

TABLE A-1

Database Output of Soil and Sediment Samples From Building 35-752 Retained After Evaluation[a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Matrix	Value	Q	DL	RL
ZINC	METAL	Drum Accumulation Area	94575204SL	SS 3	6"	METALS	10/06/1994	Soil	72	=		2
ZINC	METAL	Drum Accumulation Area	94575205SL	SS 4	6"	METALS	10/06/1994	Soil	47	=		2
ZINC	METAL	Drum Accumulation Area	94575206SL	SS 5	6"	METALS	10/06/1994	Soil	86	=		2
ZINC	METAL	Drum Accumulation Area	94575207SL	SS 6	6"	METALS	10/06/1994	Soil	53	=		2
ZINC	METAL	Drum Accumulation Area	94575208SL	SS 7	6"	METALS	10/06/1994	Soil	61	=		2
ZINC	METAL	Drum Accumulation Area	94575209SL	SS 8	6"	METALS	10/06/1994	Soil	68	=		2

Notes:

[a] All values are expressed as mg/kg, dry weight. Areas where sediment samples were collected no longer contain water; therefore, these samples are considered to represent current soil concentrations.

TABLE A-2

Database Output of Soil Samples at AVMA Retained After Evaluation [a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
1,1,1,2-TETRACHLOROETHANE	VOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8260B	08/21/2002	0.0024	U		
1,1,1,2-TETRACHLOROETHANE	VOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8260B	05/12/2003	0.0031	U	0.0031	0.0093
1,1,1,2-TETRACHLOROETHANE	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8260B	07/22/2002	0.0074	U	0.0074	0.022
1,1,1,2-TETRACHLOROETHANE	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.0032	U	0.0032	0.0095
1,1,1,2-TETRACHLOROETHANE	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.0041	U	0.0041	0.012
1,1,1,2-TETRACHLOROETHANE	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.0063	U	0.0063	0.019
1,1,1,2-TETRACHLOROETHANE	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.0045	U	0.0045	0.014
1,1,1,2-TETRACHLOROETHANE	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.0043	U	0.0043	0.013
1,1,1,2-TETRACHLOROETHANE	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.0056	U	0.0056	0.017
1,1,1,2-TETRACHLOROETHANE	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.0054	U		
1,1,1,2-TETRACHLOROETHANE	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.0059	U	0.0059	0.018
1,1,1,2-TETRACHLOROETHANE	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.0033	U	0.0033	0.01
1,1,1,2-TETRACHLOROETHANE	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.0022	U	0.0022	0.0065
1,1,1,2-TETRACHLOROETHANE	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.0021	U		
1,1,1,2-TETRACHLOROETHANE	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.002	U	0.002	0.0061
1,1,1,2-TETRACHLOROETHANE	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.0034	U	0.0034	0.01
1,1,1,2-TETRACHLOROETHANE	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.0033	U	0.0033	0.0099
1,1,1,2-TETRACHLOROETHANE	VOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8260B	01/23/2001	0.00023	U	0.00023	0.00045
1,1,1,2-TETRACHLOROETHANE	VOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8260B	01/25/2001	0.00027	U		
1,1,1-TRICHLOROETHANE	VOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8260B	08/21/2002	0.0024	U		
1,1,1-TRICHLOROETHANE	VOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8260B	05/12/2003	0.002	U	0.002	0.0079
1,1,1-TRICHLOROETHANE	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8260B	07/22/2002	0.0074	U	0.0074	0.022
1,1,1-TRICHLOROETHANE	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.0032	U	0.0032	0.0095
1,1,1-TRICHLOROETHANE	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.0041	U	0.0041	0.012
1,1,1-TRICHLOROETHANE	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.0063	U	0.0063	0.019
1,1,1-TRICHLOROETHANE	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.0045	U	0.0045	0.014
1,1,1-TRICHLOROETHANE	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.0043	U	0.0043	0.013
1,1,1-TRICHLOROETHANE	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.0056	U	0.0056	0.017
1,1,1-TRICHLOROETHANE	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.0054	U		
1,1,1-TRICHLOROETHANE	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.0059	U	0.0059	0.018
1,1,1-TRICHLOROETHANE	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.0033	U	0.0033	0.01
1,1,1-TRICHLOROETHANE	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.0022	U	0.0022	0.0065
1,1,1-TRICHLOROETHANE	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.0021	U		
1,1,1-TRICHLOROETHANE	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.002	U	0.002	0.0061
1,1,1-TRICHLOROETHANE	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.0034	U	0.0034	0.01
1,1,1-TRICHLOROETHANE	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.0033	U	0.0033	0.0099
1,1,1-TRICHLOROETHANE	VOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8260B	01/23/2001	0.00023	U	0.00023	0.00045
1,1,1-TRICHLOROETHANE	VOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8260B	01/25/2001	0.00027	U		
1,1,2,2-TETRACHLOROETHANE	VOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8260B	08/21/2002	0.0023	U		
1,1,2,2-TETRACHLOROETHANE	VOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8260B	05/12/2003	0.0039	U	0.0039	0.012
1,1,2,2-TETRACHLOROETHANE	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8260B	07/22/2002	0.0071	U	0.0071	0.021
1,1,2,2-TETRACHLOROETHANE	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.003	U	0.003	0.009
1,1,2,2-TETRACHLOROETHANE	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.0039	U	0.0039	0.012
1,1,2,2-TETRACHLOROETHANE	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.0061	U	0.0061	0.018
1,1,2,2-TETRACHLOROETHANE	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.0043	U	0.0043	0.013
1,1,2,2-TETRACHLOROETHANE	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.0041	U	0.0041	0.012
1,1,2,2-TETRACHLOROETHANE	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.0054	U	0.0054	0.016
1,1,2,2-TETRACHLOROETHANE	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.0052	U		
1,1,2,2-TETRACHLOROETHANE	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.0056	U	0.0056	0.017
1,1,2,2-TETRACHLOROETHANE	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.0032	U	0.0032	0.0095
1,1,2,2-TETRACHLOROETHANE	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.0021	U	0.0021	0.0062

TABLE A-2

Database Output of Soil Samples at AVMA Retained After Evaluation [a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
1,1,2,2-TETRACHLOROETHANE	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.002	U		
1,1,2,2-TETRACHLOROETHANE	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.0019	U	0.0019	0.0058
1,1,2,2-TETRACHLOROETHANE	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.0033	U	0.0033	0.0099
1,1,2,2-TETRACHLOROETHANE	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.0032	U	0.0032	0.0095
1,1,2,2-TETRACHLOROETHANE	VOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8260B	01/23/2001	0.00023	U	0.00023	0.00045
1,1,2,2-TETRACHLOROETHANE	VOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8260B	01/25/2001	0.00027	U		
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	VOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8260B	08/21/2002	0.0039	U		
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	VOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8260B	05/12/2003	0.0019	U	0.0019	0.0079
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8260B	07/22/2002	0.012	U	0.012	0.037
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.0052	U	0.0052	0.016
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.0068	U	0.0068	0.02
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.01	U	0.01	0.031
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.0075	U	0.0075	0.022
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.0072	U	0.0072	0.021
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.0092	U	0.0092	0.028
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.0089	U		
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.0097	U	0.0097	0.029
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.0055	U	0.0055	0.016
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.0036	U	0.0036	0.011
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.0035	U		
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.0033	U	0.0033	0.01
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.0057	U	0.0057	0.017
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.0055	U	0.0055	0.016
1,1,2-TRICHLOROETHANE	VOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8260B	08/21/2002	0.0045	U		
1,1,2-TRICHLOROETHANE	VOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8260B	05/12/2003	0.0048	U	0.0048	0.015
1,1,2-TRICHLOROETHANE	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8260B	07/22/2002	0.014	U	0.014	0.042
1,1,2-TRICHLOROETHANE	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.006	U	0.006	0.018
1,1,2-TRICHLOROETHANE	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.0079	U	0.0079	0.024
1,1,2-TRICHLOROETHANE	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.012	U	0.012	0.036
1,1,2-TRICHLOROETHANE	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.0087	U	0.0087	0.026
1,1,2-TRICHLOROETHANE	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.0083	U	0.0083	0.025
1,1,2-TRICHLOROETHANE	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.011	U	0.011	0.032
1,1,2-TRICHLOROETHANE	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.01	U		
1,1,2-TRICHLOROETHANE	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.011	U	0.011	0.034
1,1,2-TRICHLOROETHANE	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.0064	U	0.0064	0.019
1,1,2-TRICHLOROETHANE	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.0041	U	0.0041	0.012
1,1,2-TRICHLOROETHANE	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.004	U		
1,1,2-TRICHLOROETHANE	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.0039	U	0.0039	0.012
1,1,2-TRICHLOROETHANE	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.0066	U	0.0066	0.02
1,1,2-TRICHLOROETHANE	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.0063	U	0.0063	0.019
1,1,2-TRICHLOROETHANE	VOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8260B	01/23/2001	0.00023	U	0.00023	0.00045
1,1,2-TRICHLOROETHANE	VOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8260B	01/25/2001	0.00027	U		
1,1-DICHLOROETHANE	VOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8260B	08/21/2002	0.0028	U		
1,1-DICHLOROETHANE	VOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8260B	05/12/2003	0.0024	U	0.0024	0.0079
1,1-DICHLOROETHANE	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8260B	07/22/2002	0.0087	U	0.0087	0.026
1,1-DICHLOROETHANE	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.0037	U	0.0037	0.011
1,1-DICHLOROETHANE	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.0048	U	0.0048	0.015
1,1-DICHLOROETHANE	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.0074	U	0.0074	0.022
1,1-DICHLOROETHANE	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.0053	U	0.0053	0.016
1,1-DICHLOROETHANE	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.0051	U	0.0051	0.015
1,1-DICHLOROETHANE	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.0066	U	0.0066	0.02

TABLE A-2

Database Output of Soil Samples at AVMA Retained After Evaluation [a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
1,1-DICHLOROETHANE	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.0063	U		
1,1-DICHLOROETHANE	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.0069	U	0.0069	0.021
1,1-DICHLOROETHANE	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.0039	U	0.0039	0.012
1,1-DICHLOROETHANE	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.0025	U	0.0025	0.0076
1,1-DICHLOROETHANE	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.0025	U		
1,1-DICHLOROETHANE	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.0024	U	0.0024	0.0071
1,1-DICHLOROETHANE	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.004	U	0.004	0.012
1,1-DICHLOROETHANE	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.0039	U	0.0039	0.012
1,1-DICHLOROETHANE	VOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8260B	01/23/2001	0.00023	U	0.00023	0.00045
1,1-DICHLOROETHANE	VOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8260B	01/25/2001	0.00027	U		
1,1-DICHLOROETHENE	VOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8260B	08/21/2002	0.0036	U		
1,1-DICHLOROETHENE	VOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8260B	05/12/2003	0.0052	U	0.0052	0.016
1,1-DICHLOROETHENE	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8260B	07/22/2002	0.011	U	0.011	0.034
1,1-DICHLOROETHENE	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.0048	U	0.0048	0.014
1,1-DICHLOROETHENE	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.0063	U	0.0063	0.019
1,1-DICHLOROETHENE	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.0096	U	0.0096	0.029
1,1-DICHLOROETHENE	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.0069	U	0.0069	0.021
1,1-DICHLOROETHENE	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.0066	U	0.0066	0.02
1,1-DICHLOROETHENE	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.0085	U	0.0085	0.026
1,1-DICHLOROETHENE	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.0082	U		
1,1-DICHLOROETHENE	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.0089	U	0.0089	0.027
1,1-DICHLOROETHENE	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.0051	U	0.0051	0.015
1,1-DICHLOROETHENE	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.0033	U	0.0033	0.0098
1,1-DICHLOROETHENE	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.0032	U		
1,1-DICHLOROETHENE	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.0031	U	0.0031	0.0092
1,1-DICHLOROETHENE	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.0052	U	0.0052	0.016
1,1-DICHLOROETHENE	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.005	U	0.005	0.015
1,1-DICHLOROETHENE	VOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8260B	01/23/2001	0.00023	U	0.00023	0.00045
1,1-DICHLOROETHENE	VOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8260B	01/25/2001	0.00027	U		
1,1-DICHLOROPROPENE	VOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8260B	08/21/2002	0.0019	U		
1,1-DICHLOROPROPENE	VOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8260B	05/12/2003	0.0016	U	0.0016	0.0079
1,1-DICHLOROPROPENE	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8260B	07/22/2002	0.0061	U	0.0061	0.018
1,1-DICHLOROPROPENE	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.0026	U	0.0026	0.0078
1,1-DICHLOROPROPENE	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.0034	U	0.0034	0.01
1,1-DICHLOROPROPENE	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.0052	U	0.0052	0.016
1,1-DICHLOROPROPENE	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.0037	U	0.0037	0.011
1,1-DICHLOROPROPENE	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.0036	U	0.0036	0.011
1,1-DICHLOROPROPENE	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.0046	U	0.0046	0.014
1,1-DICHLOROPROPENE	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.0044	U		
1,1-DICHLOROPROPENE	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.0048	U	0.0048	0.015
1,1-DICHLOROPROPENE	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.0027	U	0.0027	0.0082
1,1-DICHLOROPROPENE	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.0018	U	0.0018	0.0053
1,1-DICHLOROPROPENE	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.0017	U		
1,1-DICHLOROPROPENE	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.0017	U	0.0017	0.005
1,1-DICHLOROPROPENE	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.0028	U	0.0028	0.0085
1,1-DICHLOROPROPENE	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.0027	U	0.0027	0.0082
1,1-DICHLOROPROPENE	VOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8260B	01/23/2001	0.00023	U	0.00023	0.00045
1,1-DICHLOROPROPENE	VOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8260B	01/25/2001	0.00027	U		
1,2,3-TRICHLOROBENZENE	VOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8260B	08/21/2002	0.0016	UJ		
1,2,3-TRICHLOROBENZENE	VOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8260B	05/12/2003	0.018	U	0.018	0.053
1,2,3-TRICHLOROBENZENE	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8260B	07/22/2002	0.0051	U	0.0051	0.016

TABLE A-2

Database Output of Soil Samples at AVMA Retained After Evaluation [a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
1,2,3-TRICHLOROBENZENE	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.0022	U	0.0022	0.0069
1,2,3-TRICHLOROBENZENE	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.0029	U	0.0029	0.009
1,2,3-TRICHLOROBENZENE	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.0044	U	0.0044	0.014
1,2,3-TRICHLOROBENZENE	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.0032	U	0.0032	0.0098
1,2,3-TRICHLOROBENZENE	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.003	U	0.003	0.0094
1,2,3-TRICHLOROBENZENE	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.0039	U	0.0039	0.012
1,2,3-TRICHLOROBENZENE	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.0037	U		
1,2,3-TRICHLOROBENZENE	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.0041	U	0.0041	0.013
1,2,3-TRICHLOROBENZENE	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.0023	UJ	0.0023	0.0072
1,2,3-TRICHLOROBENZENE	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.0078	JB	0.0015	0.0047
1,2,3-TRICHLOROBENZENE	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.0015	UJ		
1,2,3-TRICHLOROBENZENE	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.0014	UJ	0.0014	0.0044
1,2,3-TRICHLOROBENZENE	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.0024	UJ	0.0024	0.0075
1,2,3-TRICHLOROBENZENE	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.0023	UJ	0.0023	0.0072
1,2,3-TRICHLOROBENZENE	VOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8260B	01/23/2001	0.00023	U	0.00023	0.00045
1,2,3-TRICHLOROBENZENE	VOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8260B	01/25/2001	0.00027	U		
1,2,3-TRICHLOROPROPANE	VOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8260B	08/21/2002	0.0051	U		
1,2,3-TRICHLOROPROPANE	VOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8260B	05/12/2003	0.0052	U	0.0052	0.015
1,2,3-TRICHLOROPROPANE	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8260B	07/22/2002	0.016	U	0.016	0.048
1,2,3-TRICHLOROPROPANE	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.0069	U	0.0069	0.021
1,2,3-TRICHLOROPROPANE	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.009	U	0.009	0.027
1,2,3-TRICHLOROPROPANE	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.014	U	0.014	0.041
1,2,3-TRICHLOROPROPANE	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.0098	U	0.0098	0.03
1,2,3-TRICHLOROPROPANE	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.0094	U	0.0094	0.028
1,2,3-TRICHLOROPROPANE	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.012	U	0.012	0.037
1,2,3-TRICHLOROPROPANE	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.012	U		
1,2,3-TRICHLOROPROPANE	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.013	U	0.013	0.038
1,2,3-TRICHLOROPROPANE	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.0072	U	0.0072	0.022
1,2,3-TRICHLOROPROPANE	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.0047	U	0.0047	0.014
1,2,3-TRICHLOROPROPANE	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.0046	U		
1,2,3-TRICHLOROPROPANE	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.0044	U	0.0044	0.013
1,2,3-TRICHLOROPROPANE	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.0075	U	0.0075	0.022
1,2,3-TRICHLOROPROPANE	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.0072	U	0.0072	0.022
1,2,3-TRICHLOROPROPANE	VOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8260B	01/23/2001	0.00023	U	0.00023	0.00045
1,2,3-TRICHLOROPROPANE	VOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8260B	01/25/2001	0.00027	U		
1,2,4-TRICHLOROBENZENE	VOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8260B	08/21/2002	0.0012	U		
1,2,4-TRICHLOROBENZENE	VOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8260B	05/12/2003	0.004	U	0.004	0.012
1,2,4-TRICHLOROBENZENE	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8260B	07/22/2002	0.0039	U	0.0039	0.016
1,2,4-TRICHLOROBENZENE	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.0016	U	0.0016	0.0069
1,2,4-TRICHLOROBENZENE	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.0021	U	0.0021	0.009
1,2,4-TRICHLOROBENZENE	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.0033	U	0.0033	0.014
1,2,4-TRICHLOROBENZENE	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.0024	U	0.0024	0.0098
1,2,4-TRICHLOROBENZENE	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.0023	U	0.0023	0.0094
1,2,4-TRICHLOROBENZENE	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.0029	U	0.0029	0.012
1,2,4-TRICHLOROBENZENE	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.0028	U		
1,2,4-TRICHLOROBENZENE	VOC	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8270C	07/24/2002	0.061	U	0.061	0.19
1,2,4-TRICHLOROBENZENE	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.0031	U	0.0031	0.013
1,2,4-TRICHLOROBENZENE	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.0017	UJ	0.0017	0.0072
1,2,4-TRICHLOROBENZENE	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.0011	UJ	0.0011	0.0047
1,2,4-TRICHLOROBENZENE	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.0011	UJ		
1,2,4-TRICHLOROBENZENE	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.0011	UJ	0.0011	0.0044

TABLE A-2

Database Output of Soil Samples at AVMA Retained After Evaluation [a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
1,2,4-TRICHLOROBENZENE	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.0018	U	0.0018	0.0075
1,2,4-TRICHLOROBENZENE	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.0017	U	0.0017	0.0072
1,2,4-TRICHLOROBENZENE	VOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8260B	01/23/2001	0.00023	U	0.00023	0.00045
1,2,4-TRICHLOROBENZENE	VOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8260B	01/25/2001	0.00027	U		
1,2,4-TRIMETHYLBENZENE	VOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8260B	08/21/2002	0.0015	U		
1,2,4-TRIMETHYLBENZENE	VOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8260B	05/12/2003	0.0021	U	0.0021	0.0063
1,2,4-TRIMETHYLBENZENE	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8260B	07/22/2002	0.0048	U	0.0048	0.016
1,2,4-TRIMETHYLBENZENE	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.019	=	0.0021	0.0069
1,2,4-TRIMETHYLBENZENE	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.0027	U	0.0027	0.009
1,2,4-TRIMETHYLBENZENE	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.0041	U	0.0041	0.014
1,2,4-TRIMETHYLBENZENE	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.085	=	0.003	0.0098
1,2,4-TRIMETHYLBENZENE	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.078	=	0.0028	0.0094
1,2,4-TRIMETHYLBENZENE	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.0037	U	0.0037	0.012
1,2,4-TRIMETHYLBENZENE	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.0035	U		
1,2,4-TRIMETHYLBENZENE	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.0038	U	0.0038	0.013
1,2,4-TRIMETHYLBENZENE	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.0022	U	0.0022	0.0072
1,2,4-TRIMETHYLBENZENE	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.0014	U	0.0014	0.0047
1,2,4-TRIMETHYLBENZENE	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.014	J		
1,2,4-TRIMETHYLBENZENE	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.0013	U	0.0013	0.0044
1,2,4-TRIMETHYLBENZENE	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.0022	U	0.0022	0.0075
1,2,4-TRIMETHYLBENZENE	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.0022	U	0.0022	0.0072
1,2,4-TRIMETHYLBENZENE	VOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8260B	01/23/2001	0.00023	U	0.00023	0.00045
1,2,4-TRIMETHYLBENZENE	VOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8260B	01/25/2001	0.00027	U		
1,2-DIBROMO-3-CHLOROPROPANE	VOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8260B	08/21/2002	0.012	U		
1,2-DIBROMO-3-CHLOROPROPANE	VOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8260B	05/12/2003	0.01	U	0.01	0.079
1,2-DIBROMO-3-CHLOROPROPANE	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8260B	07/22/2002	0.039	U	0.039	0.12
1,2-DIBROMO-3-CHLOROPROPANE	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.016	U	0.016	0.049
1,2-DIBROMO-3-CHLOROPROPANE	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.021	U	0.021	0.064
1,2-DIBROMO-3-CHLOROPROPANE	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.033	U	0.033	0.099
1,2-DIBROMO-3-CHLOROPROPANE	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.024	U	0.024	0.071
1,2-DIBROMO-3-CHLOROPROPANE	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.023	U	0.023	0.068
1,2-DIBROMO-3-CHLOROPROPANE	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.029	U	0.029	0.088
1,2-DIBROMO-3-CHLOROPROPANE	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.028	U		
1,2-DIBROMO-3-CHLOROPROPANE	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.031	U	0.031	0.092
1,2-DIBROMO-3-CHLOROPROPANE	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.017	UJ	0.017	0.052
1,2-DIBROMO-3-CHLOROPROPANE	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.011	UJ	0.011	0.034
1,2-DIBROMO-3-CHLOROPROPANE	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.011	UJ		
1,2-DIBROMO-3-CHLOROPROPANE	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.011	UJ	0.011	0.032
1,2-DIBROMO-3-CHLOROPROPANE	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.018	U	0.018	0.054
1,2-DIBROMO-3-CHLOROPROPANE	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.017	U	0.017	0.052
1,2-DIBROMO-3-CHLOROPROPANE	VOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8260B	01/23/2001	0.00023	U	0.00023	0.00045
1,2-DIBROMO-3-CHLOROPROPANE	VOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8260B	01/25/2001	0.00027	U		
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	VOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8260B	08/21/2002	0.0017	U		
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	VOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8260B	05/12/2003	0.0049	U	0.0049	0.015
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8260B	07/22/2002	0.0055	U	0.0055	0.016
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.0023	U	0.0023	0.007
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.003	U	0.003	0.0091
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.0047	U	0.0047	0.014
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.0033	U	0.0033	0.01
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.0032	U	0.0032	0.0096
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.0041	U	0.0041	0.012

TABLE A-2

Database Output of Soil Samples at AVMA Retained After Evaluation [a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.004	U		
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.0043	U	0.0043	0.013
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.0025	U	0.0025	0.0074
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.0016	U	0.0016	0.0048
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.0016	U		
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.0015	U	0.0015	0.0045
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.0025	U	0.0025	0.0076
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.0024	U	0.0024	0.0073
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	VOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8260B	01/23/2001	0.00023	U	0.00023	0.00045
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	VOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8260B	01/25/2001	0.00027	U		
1,2-DICHLOROBENZENE	VOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8260B	08/21/2002	0.0022	U		
1,2-DICHLOROBENZENE	VOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8260B	05/12/2003	0.0036	U	0.0036	0.011
1,2-DICHLOROBENZENE	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8260B	07/22/2002	0.0068	U	0.0068	0.02
1,2-DICHLOROBENZENE	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.0029	U	0.0029	0.0086
1,2-DICHLOROBENZENE	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.0038	U	0.0038	0.011
1,2-DICHLOROBENZENE	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.0058	U	0.0058	0.017
1,2-DICHLOROBENZENE	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.0041	U	0.0041	0.012
1,2-DICHLOROBENZENE	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.004	U	0.004	0.012
1,2-DICHLOROBENZENE	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.0051	U	0.0051	0.015
1,2-DICHLOROBENZENE	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.0049	U		
1,2-DICHLOROBENZENE	VOC	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8270C	07/24/2002	0.069	U	0.069	0.21
1,2-DICHLOROBENZENE	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.0053	U	0.0053	0.016
1,2-DICHLOROBENZENE	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.003	U	0.003	0.0091
1,2-DICHLOROBENZENE	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.002	U	0.002	0.0059
1,2-DICHLOROBENZENE	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.0019	U		
1,2-DICHLOROBENZENE	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.0018	U	0.0018	0.0055
1,2-DICHLOROBENZENE	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.0031	U	0.0031	0.0094
1,2-DICHLOROBENZENE	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.003	U	0.003	0.0091
1,2-DICHLOROBENZENE	VOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8260B	01/23/2001	0.00023	U	0.00023	0.00045
1,2-DICHLOROBENZENE	VOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8260B	01/25/2001	0.00027	U		
1,2-DICHLOROETHANE	VOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8260B	08/21/2002	0.0038	U		
1,2-DICHLOROETHANE	VOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8260B	05/12/2003	0.0029	U	0.0029	0.0087
1,2-DICHLOROETHANE	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8260B	07/22/2002	0.012	U	0.012	0.036
1,2-DICHLOROETHANE	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.0051	U	0.0051	0.015
1,2-DICHLOROETHANE	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.0066	U	0.0066	0.02
1,2-DICHLOROETHANE	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.01	U	0.01	0.031
1,2-DICHLOROETHANE	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.0073	U	0.0073	0.022
1,2-DICHLOROETHANE	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.007	U	0.007	0.021
1,2-DICHLOROETHANE	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.009	U	0.009	0.027
1,2-DICHLOROETHANE	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.0087	U		
1,2-DICHLOROETHANE	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.0094	U	0.0094	0.028
1,2-DICHLOROETHANE	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.0053	U	0.0053	0.016
1,2-DICHLOROETHANE	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.0035	U	0.0035	0.01
1,2-DICHLOROETHANE	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.0034	U		
1,2-DICHLOROETHANE	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.0033	U	0.0033	0.0098
1,2-DICHLOROETHANE	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.0055	U	0.0055	0.017
1,2-DICHLOROETHANE	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.0053	U	0.0053	0.016
1,2-DICHLOROETHANE	VOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8260B	01/23/2001	0.00023	U	0.00023	0.00045
1,2-DICHLOROETHANE	VOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8260B	01/25/2001	0.00027	U		
1,2-DICHLOROPROPANE	VOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8260B	08/21/2002	0.0036	U		
1,2-DICHLOROPROPANE	VOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8260B	05/12/2003	0.0034	U	0.0034	0.01

TABLE A-2

Database Output of Soil Samples at AVMA Retained After Evaluation [a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
1,2-DICHLOROPROPANE	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8260B	07/22/2002	0.011	U	0.011	0.034
1,2-DICHLOROPROPANE	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.0048	U	0.0048	0.014
1,2-DICHLOROPROPANE	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.0063	U	0.0063	0.019
1,2-DICHLOROPROPANE	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.0096	U	0.0096	0.029
1,2-DICHLOROPROPANE	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.0069	U	0.0069	0.021
1,2-DICHLOROPROPANE	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.0066	U	0.0066	0.02
1,2-DICHLOROPROPANE	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.0085	U	0.0085	0.026
1,2-DICHLOROPROPANE	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.0082	U		
1,2-DICHLOROPROPANE	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.0089	U	0.0089	0.027
1,2-DICHLOROPROPANE	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.0051	U	0.0051	0.015
1,2-DICHLOROPROPANE	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.0033	U	0.0033	0.0098
1,2-DICHLOROPROPANE	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.0032	U		
1,2-DICHLOROPROPANE	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.0031	U	0.0031	0.0092
1,2-DICHLOROPROPANE	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.0052	U	0.0052	0.016
1,2-DICHLOROPROPANE	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.005	U	0.005	0.015
1,2-DICHLOROPROPANE	VOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8260B	01/23/2001	0.00023	U	0.00023	0.00045
1,2-DICHLOROPROPANE	VOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8260B	01/25/2001	0.00027	U		
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	VOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8260B	08/21/2002	0.0024	U		
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	VOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8260B	05/12/2003	0.0027	U	0.0027	0.0082
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8260B	07/22/2002	0.0074	U	0.0074	0.022
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.0079	J	0.0032	0.0095
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.0041	U	0.0041	0.012
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.0063	U	0.0063	0.019
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.013	J	0.0045	0.014
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.018	=	0.0043	0.013
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.0056	U	0.0056	0.017
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.0054	U		
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.0059	U	0.0059	0.018
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.0033	U	0.0033	0.01
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.0022	U	0.0022	0.0065
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.0021	U		
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.002	U	0.002	0.0061
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.0034	U	0.0034	0.01
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.0033	U	0.0033	0.0099
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	VOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8260B	01/23/2001	0.00023	U	0.00023	0.00045
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	VOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8260B	01/25/2001	0.00027	U		
1,3-DICHLOROBENZENE	VOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8260B	08/21/2002	0.0023	U		
1,3-DICHLOROBENZENE	VOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8260B	05/12/2003	0.0026	U	0.0026	0.0078
1,3-DICHLOROBENZENE	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8260B	07/22/2002	0.0071	U	0.0071	0.021
1,3-DICHLOROBENZENE	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.003	U	0.003	0.009
1,3-DICHLOROBENZENE	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.0039	U	0.0039	0.012
1,3-DICHLOROBENZENE	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.0061	U	0.0061	0.018
1,3-DICHLOROBENZENE	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.0043	U	0.0043	0.013
1,3-DICHLOROBENZENE	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.0041	U	0.0041	0.012
1,3-DICHLOROBENZENE	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.0054	U	0.0054	0.016
1,3-DICHLOROBENZENE	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.0052	U		
1,3-DICHLOROBENZENE	VOC	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8270C	07/24/2002	0.065	U	0.065	0.21
1,3-DICHLOROBENZENE	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.0056	U	0.0056	0.017
1,3-DICHLOROBENZENE	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.0032	U	0.0032	0.0095
1,3-DICHLOROBENZENE	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.0021	U	0.0021	0.0062
1,3-DICHLOROBENZENE	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.002	U		

TABLE A-2

Database Output of Soil Samples at AVMA Retained After Evaluation [a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
1,3-DICHLOROBENZENE	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.0019	U	0.0019	0.0058
1,3-DICHLOROBENZENE	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.0033	U	0.0033	0.0099
1,3-DICHLOROBENZENE	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.0032	U	0.0032	0.0095
1,3-DICHLOROBENZENE	VOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8260B	01/23/2001	0.00023	U	0.00023	0.00045
1,3-DICHLOROBENZENE	VOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8260B	01/25/2001	0.00027	U		
1,3-DICHLOROPROPANE	VOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8260B	08/21/2002	0.0013	U		
1,3-DICHLOROPROPANE	VOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8260B	05/12/2003	0.0021	U	0.0021	0.0079
1,3-DICHLOROPROPANE	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8260B	07/22/2002	0.0042	U	0.0042	0.016
1,3-DICHLOROPROPANE	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.0018	U	0.0018	0.0069
1,3-DICHLOROPROPANE	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.0023	U	0.0023	0.009
1,3-DICHLOROPROPANE	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.0036	U	0.0036	0.014
1,3-DICHLOROPROPANE	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.0026	U	0.0026	0.0098
1,3-DICHLOROPROPANE	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.0024	U	0.0024	0.0094
1,3-DICHLOROPROPANE	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.0032	U	0.0032	0.012
1,3-DICHLOROPROPANE	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.003	U		
1,3-DICHLOROPROPANE	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.0033	U	0.0033	0.013
1,3-DICHLOROPROPANE	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.0019	U	0.0019	0.0072
1,3-DICHLOROPROPANE	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.0012	U	0.0012	0.0047
1,3-DICHLOROPROPANE	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.0012	U		
1,3-DICHLOROPROPANE	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.0011	U	0.0011	0.0044
1,3-DICHLOROPROPANE	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.0019	U	0.0019	0.0075
1,3-DICHLOROPROPANE	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.0019	U	0.0019	0.0072
1,3-DICHLOROPROPANE	VOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8260B	01/23/2001	0.00023	U	0.00023	0.00045
1,3-DICHLOROPROPANE	VOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8260B	01/25/2001	0.00027	U		
1,4-DICHLOROBENZENE	VOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8260B	08/21/2002	0.0029	U		
1,4-DICHLOROBENZENE	VOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8260B	05/12/2003	0.0029	U	0.0029	0.0088
1,4-DICHLOROBENZENE	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8260B	07/22/2002	0.009	U	0.009	0.027
1,4-DICHLOROBENZENE	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.0038	U	0.0038	0.012
1,4-DICHLOROBENZENE	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.005	U	0.005	0.015
1,4-DICHLOROBENZENE	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.0077	U	0.0077	0.023
1,4-DICHLOROBENZENE	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.0055	U	0.0055	0.017
1,4-DICHLOROBENZENE	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.0053	U	0.0053	0.016
1,4-DICHLOROBENZENE	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.0068	U	0.0068	0.02
1,4-DICHLOROBENZENE	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.0066	U		
1,4-DICHLOROBENZENE	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.0071	U	0.0071	0.021
1,4-DICHLOROBENZENE	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.004	U	0.004	0.012
1,4-DICHLOROBENZENE	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.0026	U	0.0026	0.0079
1,4-DICHLOROBENZENE	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.0026	U		
1,4-DICHLOROBENZENE	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.0025	U	0.0025	0.0074
1,4-DICHLOROBENZENE	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.0042	U	0.0042	0.013
1,4-DICHLOROBENZENE	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.004	U	0.004	0.012
1,4-DICHLOROBENZENE	VOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8260B	01/23/2001	0.00023	U	0.00023	0.00045
1,4-DICHLOROBENZENE	VOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8260B	01/25/2001	0.00027	U		
2,2-DICHLOROPROPANE	VOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8260B	08/21/2002	0.0029	U		
2,2-DICHLOROPROPANE	VOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8260B	05/12/2003	0.0046	U	0.0046	0.014
2,2-DICHLOROPROPANE	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8260B	07/22/2002	0.009	U	0.009	0.027
2,2-DICHLOROPROPANE	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.0038	U	0.0038	0.012
2,2-DICHLOROPROPANE	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.005	U	0.005	0.015
2,2-DICHLOROPROPANE	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.0077	U	0.0077	0.023
2,2-DICHLOROPROPANE	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.0055	UJ	0.0055	0.017
2,2-DICHLOROPROPANE	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.0053	UJ	0.0053	0.016

TABLE A-2

Database Output of Soil Samples at AVMA Retained After Evaluation [a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
2,2-DICHLOROPROPANE	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.0068	U	0.0068	0.02
2,2-DICHLOROPROPANE	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.0066	U		
2,2-DICHLOROPROPANE	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.0071	U	0.0071	0.021
2,2-DICHLOROPROPANE	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.004	U	0.004	0.012
2,2-DICHLOROPROPANE	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.0026	U	0.0026	0.0079
2,2-DICHLOROPROPANE	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.0026	U		
2,2-DICHLOROPROPANE	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.0025	U	0.0025	0.0074
2,2-DICHLOROPROPANE	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.0042	U	0.0042	0.013
2,2-DICHLOROPROPANE	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.004	U	0.004	0.012
2,2-DICHLOROPROPANE	VOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8260B	01/23/2001	0.00023	U	0.00023	0.00045
2,2-DICHLOROPROPANE	VOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8260B	01/25/2001	0.00027	U		
2,4,5-TRICHLOROPHENOL	SVOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8270C	08/21/2002	0.031	U		
2,4,5-TRICHLOROPHENOL	SVOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8270C	05/12/2003	0.024	U	0.024	0.17
2,4,5-TRICHLOROPHENOL	SVOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8270C	07/22/2002	0.033	U	0.033	0.19
2,4,5-TRICHLOROPHENOL	SVOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8270C	07/22/2002	0.03	U	0.03	0.17
2,4,5-TRICHLOROPHENOL	SVOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8270C	07/22/2002	0.03	U	0.03	0.17
2,4,5-TRICHLOROPHENOL	SVOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8270C	07/22/2002	0.07	UJ	0.07	0.4
2,4,5-TRICHLOROPHENOL	SVOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8270C	07/23/2002	0.031	U	0.031	0.18
2,4,5-TRICHLOROPHENOL	SVOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8270C	07/23/2002	0.032	U	0.032	0.19
2,4,5-TRICHLOROPHENOL	SVOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8270C	07/24/2002	0.031	U	0.031	0.18
2,4,5-TRICHLOROPHENOL	SVOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8270C	07/24/2002	0.03	U		
2,4,5-TRICHLOROPHENOL	SVOC	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8270C	07/24/2002	0.03	U	0.03	0.17
2,4,5-TRICHLOROPHENOL	SVOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8270C	07/24/2002	0.029	U	0.029	0.17
2,4,5-TRICHLOROPHENOL	SVOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8270C	08/20/2002	0.036	U	0.036	0.21
2,4,5-TRICHLOROPHENOL	SVOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8270C	08/20/2002	0.03	U	0.03	0.17
2,4,5-TRICHLOROPHENOL	SVOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8270C	08/20/2002	0.03	U		
2,4,5-TRICHLOROPHENOL	SVOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8270C	08/20/2002	0.03	U	0.03	0.17
2,4,5-TRICHLOROPHENOL	SVOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8270C	08/22/2002	0.17	U	0.17	0.99
2,4,5-TRICHLOROPHENOL	SVOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8270C	08/21/2002	0.03	U	0.03	0.17
2,4,5-TRICHLOROPHENOL	SVOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8270C	01/23/2001	0.0048	U	0.0048	0.035
2,4,5-TRICHLOROPHENOL	SVOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8270C	01/25/2001	0.0048	U		
2,4,6-TRICHLOROPHENOL	SVOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8270C	08/21/2002	0.03	U		
2,4,6-TRICHLOROPHENOL	SVOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8270C	05/12/2003	0.032	U	0.032	0.17
2,4,6-TRICHLOROPHENOL	SVOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8270C	07/22/2002	0.032	U	0.032	0.19
2,4,6-TRICHLOROPHENOL	SVOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8270C	07/22/2002	0.029	U	0.029	0.17
2,4,6-TRICHLOROPHENOL	SVOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8270C	07/22/2002	0.03	U	0.03	0.17
2,4,6-TRICHLOROPHENOL	SVOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8270C	07/22/2002	0.068	UJ	0.068	0.4
2,4,6-TRICHLOROPHENOL	SVOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8270C	07/23/2002	0.03	U	0.03	0.18
2,4,6-TRICHLOROPHENOL	SVOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8270C	07/23/2002	0.031	U	0.031	0.19
2,4,6-TRICHLOROPHENOL	SVOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8270C	07/24/2002	0.03	U	0.03	0.18
2,4,6-TRICHLOROPHENOL	SVOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8270C	07/24/2002	0.029	U		
2,4,6-TRICHLOROPHENOL	SVOC	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8270C	07/24/2002	0.029	U	0.029	0.17
2,4,6-TRICHLOROPHENOL	SVOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8270C	07/24/2002	0.029	U	0.029	0.17
2,4,6-TRICHLOROPHENOL	SVOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8270C	08/20/2002	0.035	U	0.035	0.21
2,4,6-TRICHLOROPHENOL	SVOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8270C	08/20/2002	0.029	U	0.029	0.17
2,4,6-TRICHLOROPHENOL	SVOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8270C	08/20/2002	0.029	U		
2,4,6-TRICHLOROPHENOL	SVOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8270C	08/20/2002	0.029	U	0.029	0.17
2,4,6-TRICHLOROPHENOL	SVOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8270C	08/22/2002	0.17	U	0.17	0.99
2,4,6-TRICHLOROPHENOL	SVOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8270C	08/21/2002	0.029	U	0.029	0.17
2,4,6-TRICHLOROPHENOL	SVOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8270C	01/23/2001	0.0047	U	0.0047	0.035
2,4,6-TRICHLOROPHENOL	SVOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8270C	01/25/2001	0.0048	U		

TABLE A-2

Database Output of Soil Samples at AVMA Retained After Evaluation [a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
2,4-DICHLOROPHENOL	SVOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8270C	08/21/2002	0.036	U		
2,4-DICHLOROPHENOL	SVOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8270C	05/12/2003	0.021	U	0.021	0.17
2,4-DICHLOROPHENOL	SVOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8270C	07/22/2002	0.038	U	0.038	0.19
2,4-DICHLOROPHENOL	SVOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8270C	07/22/2002	0.034	U	0.034	0.17
2,4-DICHLOROPHENOL	SVOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8270C	07/22/2002	0.035	U	0.035	0.17
2,4-DICHLOROPHENOL	SVOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8270C	07/22/2002	0.081	UJ	0.081	0.4
2,4-DICHLOROPHENOL	SVOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8270C	07/23/2002	0.036	U	0.036	0.18
2,4-DICHLOROPHENOL	SVOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8270C	07/23/2002	0.037	U	0.037	0.19
2,4-DICHLOROPHENOL	SVOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8270C	07/24/2002	0.036	U	0.036	0.18
2,4-DICHLOROPHENOL	SVOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8270C	07/24/2002	0.035	U		
2,4-DICHLOROPHENOL	SVOC	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8270C	07/24/2002	0.034	U	0.034	0.17
2,4-DICHLOROPHENOL	SVOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8270C	07/24/2002	0.034	U	0.034	0.17
2,4-DICHLOROPHENOL	SVOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8270C	08/20/2002	0.041	U	0.041	0.21
2,4-DICHLOROPHENOL	SVOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8270C	08/20/2002	0.034	U	0.034	0.17
2,4-DICHLOROPHENOL	SVOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8270C	08/20/2002	0.034	U		
2,4-DICHLOROPHENOL	SVOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8270C	08/20/2002	0.035	U	0.035	0.17
2,4-DICHLOROPHENOL	SVOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8270C	08/22/2002	0.2	U	0.2	0.99
2,4-DICHLOROPHENOL	SVOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8270C	08/21/2002	0.034	U	0.034	0.17
2,4-DICHLOROPHENOL	SVOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8270C	01/23/2001	0.0026	U	0.0026	0.035
2,4-DICHLOROPHENOL	SVOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8270C	01/25/2001	0.0026	U		
2,4-DIMETHYLPHENOL	SVOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8270C	08/21/2002	0.04	U		
2,4-DIMETHYLPHENOL	SVOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8270C	05/12/2003	0.038	UJ	0.038	0.17
2,4-DIMETHYLPHENOL	SVOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8270C	07/22/2002	0.042	U	0.042	0.19
2,4-DIMETHYLPHENOL	SVOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8270C	07/22/2002	0.038	U	0.038	0.17
2,4-DIMETHYLPHENOL	SVOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8270C	07/22/2002	0.039	U	0.039	0.17
2,4-DIMETHYLPHENOL	SVOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8270C	07/22/2002	0.089	UJ	0.089	0.4
2,4-DIMETHYLPHENOL	SVOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8270C	07/23/2002	0.04	UR	0.04	0.18
2,4-DIMETHYLPHENOL	SVOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8270C	07/23/2002	0.041	UR	0.041	0.19
2,4-DIMETHYLPHENOL	SVOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8270C	07/24/2002	0.04	U	0.04	0.18
2,4-DIMETHYLPHENOL	SVOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8270C	07/24/2002	0.038	U		
2,4-DIMETHYLPHENOL	SVOC	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8270C	07/24/2002	0.038	U	0.038	0.17
2,4-DIMETHYLPHENOL	SVOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8270C	07/24/2002	0.037	U	0.037	0.17
2,4-DIMETHYLPHENOL	SVOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8270C	08/20/2002	0.045	U	0.045	0.21
2,4-DIMETHYLPHENOL	SVOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8270C	08/20/2002	0.038	U	0.038	0.17
2,4-DIMETHYLPHENOL	SVOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8270C	08/20/2002	0.038	U		
2,4-DIMETHYLPHENOL	SVOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8270C	08/20/2002	0.038	U	0.038	0.17
2,4-DIMETHYLPHENOL	SVOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8270C	08/22/2002	0.22	U	0.22	0.99
2,4-DIMETHYLPHENOL	SVOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8270C	08/21/2002	0.038	U	0.038	0.17
2,4-DIMETHYLPHENOL	SVOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8270C	01/23/2001	0.011	J	0.0091	0.035
2,4-DIMETHYLPHENOL	SVOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8270C	01/25/2001	0.0093	U		
2,4-DINITROPHENOL	SVOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8270C	08/21/2002	0.23	UJ		
2,4-DINITROPHENOL	SVOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8270C	05/12/2003	0.024	UJ	0.024	1.1
2,4-DINITROPHENOL	SVOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8270C	07/22/2002	0.25	UJ	0.25	1.3
2,4-DINITROPHENOL	SVOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8270C	07/22/2002	0.22	UJ	0.22	1.1
2,4-DINITROPHENOL	SVOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8270C	07/22/2002	0.23	UJ	0.23	1.1
2,4-DINITROPHENOL	SVOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8270C	07/22/2002	0.53	UJ	0.53	2.6
2,4-DINITROPHENOL	SVOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8270C	07/23/2002	0.23	UJ	0.23	1.2
2,4-DINITROPHENOL	SVOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8270C	07/23/2002	0.24	UJ	0.24	1.2
2,4-DINITROPHENOL	SVOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8270C	07/24/2002	0.24	UJ	0.24	1.2
2,4-DINITROPHENOL	SVOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8270C	07/24/2002	0.23	UJ		
2,4-DINITROPHENOL	SVOC	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8270C	07/24/2002	0.22	UJ	0.22	1.1

TABLE A-2

Database Output of Soil Samples at AVMA Retained After Evaluation [a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
2,4-DINITROPHENOL	SVOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8270C	07/24/2002	0.22	UJ	0.22	1.1
2,4-DINITROPHENOL	SVOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8270C	08/20/2002	0.27	UJ	0.27	1.3
2,4-DINITROPHENOL	SVOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8270C	08/20/2002	0.23	UJ	0.23	1.1
2,4-DINITROPHENOL	SVOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8270C	08/20/2002	0.23	UJ		
2,4-DINITROPHENOL	SVOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8270C	08/20/2002	0.23	UJ	0.23	1.1
2,4-DINITROPHENOL	SVOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8270C	08/22/2002	1.3	UJ	1.3	6.5
2,4-DINITROPHENOL	SVOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8270C	08/21/2002	0.23	UJ	0.23	1.1
2,4-DINITROPHENOL	SVOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8270C	01/23/2001	0.0084	U	0.0084	0.035
2,4-DINITROPHENOL	SVOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8270C	01/25/2001	0.0086	U		
2,4-DINITROTOLUENE	SVOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8270C	08/21/2002	0.037	U		
2,4-DINITROTOLUENE	SVOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8270C	05/12/2003	0.032	U	0.032	0.17
2,4-DINITROTOLUENE	SVOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8270C	07/22/2002	0.04	U	0.04	0.19
2,4-DINITROTOLUENE	SVOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8270C	07/22/2002	0.036	U	0.036	0.17
2,4-DINITROTOLUENE	SVOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8270C	07/22/2002	0.036	U	0.036	0.17
2,4-DINITROTOLUENE	SVOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8270C	07/22/2002	0.084	U	0.084	0.4
2,4-DINITROTOLUENE	SVOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8270C	07/23/2002	0.037	U	0.037	0.18
2,4-DINITROTOLUENE	SVOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8270C	07/23/2002	0.039	U	0.039	0.19
2,4-DINITROTOLUENE	SVOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8270C	07/24/2002	0.037	U	0.037	0.18
2,4-DINITROTOLUENE	SVOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8270C	07/24/2002	0.036	U		
2,4-DINITROTOLUENE	SVOC	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8270C	07/24/2002	0.036	U	0.036	0.17
2,4-DINITROTOLUENE	SVOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8270C	07/24/2002	0.035	U	0.035	0.17
2,4-DINITROTOLUENE	SVOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8270C	08/20/2002	0.043	U	0.043	0.21
2,4-DINITROTOLUENE	SVOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8270C	08/20/2002	0.036	U	0.036	0.17
2,4-DINITROTOLUENE	SVOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8270C	08/20/2002	0.036	U		
2,4-DINITROTOLUENE	SVOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8270C	08/20/2002	0.036	U	0.036	0.17
2,4-DINITROTOLUENE	SVOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8270C	08/22/2002	0.21	U	0.21	0.99
2,4-DINITROTOLUENE	SVOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8270C	08/21/2002	0.036	U	0.036	0.17
2,4-DINITROTOLUENE	SVOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8270C	01/23/2001	0.0062	U	0.0062	0.035
2,4-DINITROTOLUENE	SVOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8270C	01/25/2001	0.0063	U		
2,6-DINITROTOLUENE	SVOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8270C	08/21/2002	0.027	U		
2,6-DINITROTOLUENE	SVOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8270C	05/12/2003	0.03	U	0.03	0.17
2,6-DINITROTOLUENE	SVOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8270C	07/22/2002	0.029	U	0.029	0.19
2,6-DINITROTOLUENE	SVOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8270C	07/22/2002	0.026	U	0.026	0.17
2,6-DINITROTOLUENE	SVOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8270C	07/22/2002	0.026	U	0.026	0.17
2,6-DINITROTOLUENE	SVOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8270C	07/22/2002	0.061	U	0.061	0.4
2,6-DINITROTOLUENE	SVOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8270C	07/23/2002	0.027	U	0.027	0.18
2,6-DINITROTOLUENE	SVOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8270C	07/23/2002	0.028	U	0.028	0.19
2,6-DINITROTOLUENE	SVOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8270C	07/24/2002	0.027	U	0.027	0.18
2,6-DINITROTOLUENE	SVOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8270C	07/24/2002	0.026	U		
2,6-DINITROTOLUENE	SVOC	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8270C	07/24/2002	0.026	U	0.026	0.17
2,6-DINITROTOLUENE	SVOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8270C	07/24/2002	0.026	U	0.026	0.17
2,6-DINITROTOLUENE	SVOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8270C	08/20/2002	0.031	U	0.031	0.21
2,6-DINITROTOLUENE	SVOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8270C	08/20/2002	0.026	U	0.026	0.17
2,6-DINITROTOLUENE	SVOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8270C	08/20/2002	0.026	U		
2,6-DINITROTOLUENE	SVOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8270C	08/20/2002	0.026	U	0.026	0.17
2,6-DINITROTOLUENE	SVOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8270C	08/22/2002	0.15	U	0.15	0.99
2,6-DINITROTOLUENE	SVOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8270C	08/21/2002	0.026	U	0.026	0.17
2,6-DINITROTOLUENE	SVOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8270C	01/23/2001	0.0044	U	0.0044	0.035
2,6-DINITROTOLUENE	SVOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8270C	01/25/2001	0.0045	U		
2-CHLOROETHYL VINYL ETHER	VOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8260B	08/21/2002	0.0025	U		
2-CHLOROETHYL VINYL ETHER	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8260B	07/22/2002	0.0077	U	0.0077	0.023

TABLE A-2

Database Output of Soil Samples at AVMA Retained After Evaluation [a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
2-CHLOROETHYL VINYL ETHER	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.0033	U	0.0033	0.0099
2-CHLOROETHYL VINYL ETHER	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.0043	U	0.0043	0.013
2-CHLOROETHYL VINYL ETHER	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.0066	U	0.0066	0.02
2-CHLOROETHYL VINYL ETHER	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.0047	U	0.0047	0.014
2-CHLOROETHYL VINYL ETHER	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.0045	U	0.0045	0.014
2-CHLOROETHYL VINYL ETHER	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.0058	U	0.0058	0.018
2-CHLOROETHYL VINYL ETHER	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.0056	U		
2-CHLOROETHYL VINYL ETHER	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.0061	U	0.0061	0.018
2-CHLOROETHYL VINYL ETHER	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.0035	U	0.0035	0.01
2-CHLOROETHYL VINYL ETHER	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.0022	U	0.0022	0.0067
2-CHLOROETHYL VINYL ETHER	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.0022	U		
2-CHLOROETHYL VINYL ETHER	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.0021	U	0.0021	0.0063
2-CHLOROETHYL VINYL ETHER	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.0036	U	0.0036	0.011
2-CHLOROETHYL VINYL ETHER	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.0035	U	0.0035	0.01
2-CHLORONAPHTHALENE	SVOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8270C	08/21/2002	0.039	U		
2-CHLORONAPHTHALENE	SVOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8270C	05/12/2003	0.023	U	0.023	0.17
2-CHLORONAPHTHALENE	SVOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8270C	07/22/2002	0.042	U	0.042	0.19
2-CHLORONAPHTHALENE	SVOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8270C	07/22/2002	0.037	U	0.037	0.17
2-CHLORONAPHTHALENE	SVOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8270C	07/22/2002	0.038	U	0.038	0.17
2-CHLORONAPHTHALENE	SVOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8270C	07/22/2002	0.088	U	0.088	0.4
2-CHLORONAPHTHALENE	SVOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8270C	07/23/2002	0.039	U	0.039	0.18
2-CHLORONAPHTHALENE	SVOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8270C	07/23/2002	0.04	U	0.04	0.19
2-CHLORONAPHTHALENE	SVOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8270C	07/24/2002	0.039	UJ	0.039	0.18
2-CHLORONAPHTHALENE	SVOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8270C	07/24/2002	0.038	UJ		
2-CHLORONAPHTHALENE	SVOC	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8270C	07/24/2002	0.037	UJ	0.037	0.17
2-CHLORONAPHTHALENE	SVOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8270C	07/24/2002	0.037	UJ	0.037	0.17
2-CHLORONAPHTHALENE	SVOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8270C	08/20/2002	0.045	U	0.045	0.21
2-CHLORONAPHTHALENE	SVOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8270C	08/20/2002	0.037	U	0.037	0.17
2-CHLORONAPHTHALENE	SVOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8270C	08/20/2002	0.037	U		
2-CHLORONAPHTHALENE	SVOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8270C	08/20/2002	0.038	U	0.038	0.17
2-CHLORONAPHTHALENE	SVOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8270C	08/22/2002	0.22	U	0.22	0.99
2-CHLORONAPHTHALENE	SVOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8270C	08/21/2002	0.037	U	0.037	0.17
2-CHLORONAPHTHALENE	SVOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8270C	01/23/2001	0.0029	U	0.0029	0.007
2-CHLORONAPHTHALENE	SVOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8270C	01/25/2001	0.003	U		
2-CHLOROPHENOL	SVOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8270C	08/21/2002	0.061	U		
2-CHLOROPHENOL	SVOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8270C	05/12/2003	0.022	U	0.022	0.17
2-CHLOROPHENOL	SVOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8270C	07/22/2002	0.065	U	0.065	0.19
2-CHLOROPHENOL	SVOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8270C	07/22/2002	0.058	U	0.058	0.17
2-CHLOROPHENOL	SVOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8270C	07/22/2002	0.059	U	0.059	0.17
2-CHLOROPHENOL	SVOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8270C	07/22/2002	0.14	UJ	0.14	0.4
2-CHLOROPHENOL	SVOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8270C	07/23/2002	0.061	U	0.061	0.18
2-CHLOROPHENOL	SVOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8270C	07/23/2002	0.063	U	0.063	0.19
2-CHLOROPHENOL	SVOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8270C	07/24/2002	0.061	U	0.061	0.18
2-CHLOROPHENOL	SVOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8270C	07/24/2002	0.058	U		
2-CHLOROPHENOL	SVOC	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8270C	07/24/2002	0.058	U	0.058	0.17
2-CHLOROPHENOL	SVOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8270C	07/24/2002	0.057	U	0.057	0.17
2-CHLOROPHENOL	SVOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8270C	08/20/2002	0.069	U	0.069	0.21
2-CHLOROPHENOL	SVOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8270C	08/20/2002	0.058	U	0.058	0.17
2-CHLOROPHENOL	SVOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8270C	08/20/2002	0.058	U		
2-CHLOROPHENOL	SVOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8270C	08/20/2002	0.059	U	0.059	0.17
2-CHLOROPHENOL	SVOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8270C	08/22/2002	0.33	U	0.33	0.99

TABLE A-2

Database Output of Soil Samples at AVMA Retained After Evaluation [a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
2-CHLOROPHENOL	SVOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8270C	08/21/2002	0.058	U	0.058	0.17
2-CHLOROPHENOL	SVOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8270C	01/23/2001	0.008	U	0.008	0.035
2-CHLOROPHENOL	SVOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8270C	01/25/2001	0.0081	U		
2-CHLOROTOLUENE	VOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8260B	08/21/2002	0.0011	U		
2-CHLOROTOLUENE	VOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8260B	05/12/2003	0.0031	U	0.0031	0.0092
2-CHLOROTOLUENE	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8260B	07/22/2002	0.0035	U	0.0035	0.016
2-CHLOROTOLUENE	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.0015	U	0.0015	0.0069
2-CHLOROTOLUENE	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.002	U	0.002	0.009
2-CHLOROTOLUENE	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.003	U	0.003	0.014
2-CHLOROTOLUENE	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.0022	U	0.0022	0.0098
2-CHLOROTOLUENE	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.0021	U	0.0021	0.0094
2-CHLOROTOLUENE	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.0027	U	0.0027	0.012
2-CHLOROTOLUENE	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.0026	U		
2-CHLOROTOLUENE	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.0028	U	0.0028	0.013
2-CHLOROTOLUENE	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.0016	U	0.0016	0.0072
2-CHLOROTOLUENE	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.001	U	0.001	0.0047
2-CHLOROTOLUENE	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.001	U		
2-CHLOROTOLUENE	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.00097	U	0.00097	0.0044
2-CHLOROTOLUENE	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.0016	U	0.0016	0.0075
2-CHLOROTOLUENE	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.0016	U	0.0016	0.0072
2-CHLOROTOLUENE	VOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8260B	01/23/2001	0.00023	U	0.00023	0.00045
2-CHLOROTOLUENE	VOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8260B	01/25/2001	0.00027	U		
2-HEXANONE	VOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8260B	08/21/2002	0.0017	U		
2-HEXANONE	VOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8260B	05/12/2003	0.0027	U	0.0027	0.008
2-HEXANONE	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8260B	07/22/2002	0.0055	U	0.0055	0.016
2-HEXANONE	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.0023	U	0.0023	0.007
2-HEXANONE	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.003	U	0.003	0.0091
2-HEXANONE	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.0047	U	0.0047	0.014
2-HEXANONE	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.0033	U	0.0033	0.01
2-HEXANONE	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.0032	U	0.0032	0.0096
2-HEXANONE	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.0041	U	0.0041	0.012
2-HEXANONE	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.004	U		
2-HEXANONE	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.0043	U	0.0043	0.013
2-HEXANONE	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.0025	U	0.0025	0.0074
2-HEXANONE	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.0016	U	0.0016	0.0048
2-HEXANONE	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.0016	U		
2-HEXANONE	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.0015	U	0.0015	0.0045
2-HEXANONE	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.0025	U	0.0025	0.0076
2-HEXANONE	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.0024	U	0.0024	0.0073
2-HEXANONE	VOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8260B	01/23/2001	0.0011	U	0.0011	0.0023
2-HEXANONE	VOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8260B	01/25/2001	0.0014	U		
2-METHYLNAPHTHALENE	SVOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8270C	08/21/2002	0.048	U		
2-METHYLNAPHTHALENE	SVOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	PAHSIM	05/12/2003	0.00532	U	0.00532	0.0166
2-METHYLNAPHTHALENE	SVOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8270C	07/22/2002	0.28	=	0.051	0.19
2-METHYLNAPHTHALENE	SVOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8270C	07/22/2002	0.083	J	0.046	0.17
2-METHYLNAPHTHALENE	SVOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8270C	07/22/2002	0.047	U	0.047	0.17
2-METHYLNAPHTHALENE	SVOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8270C	07/22/2002	0.11	U	0.11	0.4
2-METHYLNAPHTHALENE	SVOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8270C	07/23/2002	0.048	U	0.048	0.18
2-METHYLNAPHTHALENE	SVOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8270C	07/23/2002	0.35	=	0.049	0.19
2-METHYLNAPHTHALENE	SVOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8270C	07/24/2002	0.048	U	0.048	0.18
2-METHYLNAPHTHALENE	SVOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8270C	07/24/2002	0.046	U		

TABLE A-2

Database Output of Soil Samples at AVMA Retained After Evaluation [a]
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
2-METHYLNAPHTHALENE	SVOC	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8270C	07/24/2002	0.046	U	0.046	0.17
2-METHYLNAPHTHALENE	SVOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8270C	07/24/2002	0.045	U	0.045	0.17
2-METHYLNAPHTHALENE	SVOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8270C	08/20/2002	0.77	=	0.055	0.21
2-METHYLNAPHTHALENE	SVOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8270C	08/20/2002	0.046	U	0.046	0.17
2-METHYLNAPHTHALENE	SVOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8270C	08/20/2002	0.046	U		
2-METHYLNAPHTHALENE	SVOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8270C	08/20/2002	0.046	U	0.046	0.17
2-METHYLNAPHTHALENE	SVOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8270C	08/22/2002	1.5	=	0.26	0.99
2-METHYLNAPHTHALENE	SVOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8270C	08/21/2002	0.046	U	0.046	0.17
2-METHYLNAPHTHALENE	SVOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8270C	01/23/2001	0.73	=	0.005	0.007
2-METHYLNAPHTHALENE	SVOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8270C	01/25/2001	0.037	=		
2-METHYLPHENOL (o-CRESOL)	SVOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8270C	08/21/2002	0.05	U		
2-METHYLPHENOL (o-CRESOL)	SVOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8270C	05/12/2003	0.025	U	0.025	0.17
2-METHYLPHENOL (o-CRESOL)	SVOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8270C	07/22/2002	0.054	U	0.054	0.19
2-METHYLPHENOL (o-CRESOL)	SVOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8270C	07/22/2002	0.048	U	0.048	0.17
2-METHYLPHENOL (o-CRESOL)	SVOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8270C	07/22/2002	0.049	U	0.049	0.17
2-METHYLPHENOL (o-CRESOL)	SVOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8270C	07/22/2002	0.11	UJ	0.11	0.4
2-METHYLPHENOL (o-CRESOL)	SVOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8270C	07/23/2002	0.05	UJ	0.05	0.18
2-METHYLPHENOL (o-CRESOL)	SVOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8270C	07/23/2002	0.052	UJ	0.052	0.19
2-METHYLPHENOL (o-CRESOL)	SVOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8270C	07/24/2002	0.05	UJ	0.05	0.18
2-METHYLPHENOL (o-CRESOL)	SVOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8270C	07/24/2002	0.048	UJ		
2-METHYLPHENOL (o-CRESOL)	SVOC	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8270C	07/24/2002	0.048	UJ	0.048	0.17
2-METHYLPHENOL (o-CRESOL)	SVOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8270C	07/24/2002	0.047	UJ	0.047	0.17
2-METHYLPHENOL (o-CRESOL)	SVOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8270C	08/20/2002	0.057	U	0.057	0.21
2-METHYLPHENOL (o-CRESOL)	SVOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8270C	08/20/2002	0.048	U	0.048	0.17
2-METHYLPHENOL (o-CRESOL)	SVOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8270C	08/20/2002	0.048	U		
2-METHYLPHENOL (o-CRESOL)	SVOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8270C	08/20/2002	0.049	U	0.049	0.17
2-METHYLPHENOL (o-CRESOL)	SVOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8270C	08/22/2002	0.28	U	0.28	0.99
2-METHYLPHENOL (o-CRESOL)	SVOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8270C	08/21/2002	0.048	U	0.048	0.17
2-METHYLPHENOL (o-CRESOL)	SVOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8270C	01/23/2001	0.011	J	0.0052	0.035
2-METHYLPHENOL (o-CRESOL)	SVOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8270C	01/25/2001	0.0053	U		
2-NITROANILINE	SVOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8270C	08/21/2002	0.032	U		
2-NITROANILINE	SVOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8270C	05/12/2003	0.032	U	0.032	0.17
2-NITROANILINE	SVOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8270C	07/22/2002	0.034	U	0.034	0.19
2-NITROANILINE	SVOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8270C	07/22/2002	0.03	U	0.03	0.17
2-NITROANILINE	SVOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8270C	07/22/2002	0.031	U	0.031	0.17
2-NITROANILINE	SVOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8270C	07/22/2002	0.071	U	0.071	0.4
2-NITROANILINE	SVOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8270C	07/23/2002	0.032	U	0.032	0.18
2-NITROANILINE	SVOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8270C	07/23/2002	0.033	U	0.033	0.19
2-NITROANILINE	SVOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8270C	07/24/2002	0.032	U	0.032	0.18
2-NITROANILINE	SVOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8270C	07/24/2002	0.031	U		
2-NITROANILINE	SVOC	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8270C	07/24/2002	0.03	U	0.03	0.17
2-NITROANILINE	SVOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8270C	07/24/2002	0.03	U	0.03	0.17
2-NITROANILINE	SVOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8270C	08/20/2002	0.036	U	0.036	0.21
2-NITROANILINE	SVOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8270C	08/20/2002	0.03	U	0.03	0.17
2-NITROANILINE	SVOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8270C	08/20/2002	0.03	U		
2-NITROANILINE	SVOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8270C	08/20/2002	0.031	U	0.031	0.17
2-NITROANILINE	SVOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8270C	08/22/2002	0.18	U	0.18	0.99
2-NITROANILINE	SVOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8270C	08/21/2002	0.03	U	0.03	0.17
2-NITROANILINE	SVOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8270C	01/23/2001	0.011	U	0.011	0.035
2-NITROANILINE	SVOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8270C	01/25/2001	0.012	U		
2-NITROPHENOL	SVOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8270C	08/21/2002	0.042	U		

TABLE A-2

Database Output of Soil Samples at AVMA Retained After Evaluation [a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
2-NITROPHENOL	SVOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8270C	05/12/2003	0.03	U	0.03	0.17
2-NITROPHENOL	SVOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8270C	07/22/2002	0.045	U	0.045	0.19
2-NITROPHENOL	SVOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8270C	07/22/2002	0.04	U	0.04	0.17
2-NITROPHENOL	SVOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8270C	07/22/2002	0.041	U	0.041	0.17
2-NITROPHENOL	SVOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8270C	07/22/2002	0.095	UJ	0.095	0.4
2-NITROPHENOL	SVOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8270C	07/23/2002	0.042	U	0.042	0.18
2-NITROPHENOL	SVOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8270C	07/23/2002	0.044	U	0.044	0.19
2-NITROPHENOL	SVOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8270C	07/24/2002	0.042	U	0.042	0.18
2-NITROPHENOL	SVOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8270C	07/24/2002	0.041	U		
2-NITROPHENOL	SVOC	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8270C	07/24/2002	0.04	U	0.04	0.17
2-NITROPHENOL	SVOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8270C	07/24/2002	0.04	U	0.04	0.17
2-NITROPHENOL	SVOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8270C	08/20/2002	0.048	U	0.048	0.21
2-NITROPHENOL	SVOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8270C	08/20/2002	0.041	U	0.041	0.17
2-NITROPHENOL	SVOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8270C	08/20/2002	0.041	U		
2-NITROPHENOL	SVOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8270C	08/20/2002	0.041	U	0.041	0.17
2-NITROPHENOL	SVOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8270C	08/22/2002	0.23	U	0.23	0.99
2-NITROPHENOL	SVOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8270C	08/21/2002	0.041	U	0.041	0.17
2-NITROPHENOL	SVOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8270C	01/23/2001	0.0063	U	0.0063	0.035
2-NITROPHENOL	SVOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8270C	01/25/2001	0.0064	U		
3&4-METHYLPHENOL	SVOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8270C	08/21/2002	0.085	U		
3&4-METHYLPHENOL	SVOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8270C	05/12/2003	0.026	U	0.026	0.17
3&4-METHYLPHENOL	SVOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8270C	07/22/2002	0.091	U	0.091	0.19
3&4-METHYLPHENOL	SVOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8270C	07/22/2002	0.081	U	0.081	0.17
3&4-METHYLPHENOL	SVOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8270C	07/22/2002	0.083	U	0.083	0.17
3&4-METHYLPHENOL	SVOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8270C	07/22/2002	0.19	UJ	0.19	0.4
3&4-METHYLPHENOL	SVOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8270C	07/23/2002	0.085	U	0.085	0.18
3&4-METHYLPHENOL	SVOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8270C	07/23/2002	0.088	U	0.088	0.19
3&4-METHYLPHENOL	SVOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8270C	07/24/2002	0.085	U	0.085	0.18
3&4-METHYLPHENOL	SVOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8270C	07/24/2002	0.082	U		
3&4-METHYLPHENOL	SVOC	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8270C	07/24/2002	0.081	U	0.081	0.17
3&4-METHYLPHENOL	SVOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8270C	07/24/2002	0.08	U	0.08	0.17
3&4-METHYLPHENOL	SVOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8270C	08/20/2002	0.097	U	0.097	0.21
3&4-METHYLPHENOL	SVOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8270C	08/20/2002	0.081	U	0.081	0.17
3&4-METHYLPHENOL	SVOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8270C	08/20/2002	0.081	U		
3&4-METHYLPHENOL	SVOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8270C	08/20/2002	0.082	U	0.082	0.17
3&4-METHYLPHENOL	SVOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8270C	08/22/2002	0.47	U	0.47	0.99
3&4-METHYLPHENOL	SVOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8270C	08/21/2002	0.081	U	0.081	0.17
3,3'-DICHLOROBENZIDINE	SVOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8270C	08/21/2002	0.06	UR		
3,3'-DICHLOROBENZIDINE	SVOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8270C	05/12/2003	0.016	UJ	0.016	0.17
3,3'-DICHLOROBENZIDINE	SVOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8270C	07/22/2002	0.064	U	0.064	0.19
3,3'-DICHLOROBENZIDINE	SVOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8270C	07/22/2002	0.057	U	0.057	0.17
3,3'-DICHLOROBENZIDINE	SVOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8270C	07/22/2002	0.059	U	0.059	0.17
3,3'-DICHLOROBENZIDINE	SVOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8270C	07/22/2002	0.14	U	0.14	0.4
3,3'-DICHLOROBENZIDINE	SVOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8270C	07/23/2002	0.06	UR	0.06	0.18
3,3'-DICHLOROBENZIDINE	SVOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8270C	07/23/2002	0.062	UR	0.062	0.19
3,3'-DICHLOROBENZIDINE	SVOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8270C	07/24/2002	0.06	U	0.06	0.18
3,3'-DICHLOROBENZIDINE	SVOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8270C	07/24/2002	0.058	U		
3,3'-DICHLOROBENZIDINE	SVOC	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8270C	07/24/2002	0.058	U	0.058	0.17
3,3'-DICHLOROBENZIDINE	SVOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8270C	07/24/2002	0.057	U	0.057	0.17
3,3'-DICHLOROBENZIDINE	SVOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8270C	08/20/2002	0.069	UJ	0.069	0.21
3,3'-DICHLOROBENZIDINE	SVOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8270C	08/20/2002	0.058	UJ	0.058	0.17

TABLE A-2

Database Output of Soil Samples at AVMA Retained After Evaluation [a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
3,3'-DICHLOROBENZIDINE	SVOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8270C	08/20/2002	0.058	UJ		
3,3'-DICHLOROBENZIDINE	SVOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8270C	08/20/2002	0.058	UJ	0.058	0.17
3,3'-DICHLOROBENZIDINE	SVOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8270C	08/22/2002	0.33	UR	0.33	0.99
3,3'-DICHLOROBENZIDINE	SVOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8270C	08/21/2002	0.058	UR	0.058	0.17
3,3'-DICHLOROBENZIDINE	SVOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8270C	01/23/2001	0.0038	U	0.0038	0.035
3,3'-DICHLOROBENZIDINE	SVOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8270C	01/25/2001	0.0039	U		
3-NITROANILINE	SVOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8270C	08/21/2002	0.037	U		
3-NITROANILINE	SVOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8270C	05/12/2003	0.032	U	0.032	0.17
3-NITROANILINE	SVOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8270C	07/22/2002	0.04	U	0.04	0.19
3-NITROANILINE	SVOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8270C	07/22/2002	0.036	U	0.036	0.17
3-NITROANILINE	SVOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8270C	07/22/2002	0.036	U	0.036	0.17
3-NITROANILINE	SVOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8270C	07/22/2002	0.084	U	0.084	0.4
3-NITROANILINE	SVOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8270C	07/23/2002	0.037	U	0.037	0.18
3-NITROANILINE	SVOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8270C	07/23/2002	0.039	U	0.039	0.19
3-NITROANILINE	SVOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8270C	07/24/2002	0.037	U	0.037	0.18
3-NITROANILINE	SVOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8270C	07/24/2002	0.036	U		
3-NITROANILINE	SVOC	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8270C	07/24/2002	0.036	U	0.036	0.17
3-NITROANILINE	SVOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8270C	07/24/2002	0.035	U	0.035	0.17
3-NITROANILINE	SVOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8270C	08/20/2002	0.043	U	0.043	0.21
3-NITROANILINE	SVOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8270C	08/20/2002	0.036	U	0.036	0.17
3-NITROANILINE	SVOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8270C	08/20/2002	0.036	U		
3-NITROANILINE	SVOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8270C	08/20/2002	0.036	U	0.036	0.17
3-NITROANILINE	SVOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8270C	08/22/2002	0.21	U	0.21	0.99
3-NITROANILINE	SVOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8270C	08/21/2002	0.036	U	0.036	0.17
3-NITROANILINE	SVOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8270C	01/23/2001	0.0039	U	0.0039	0.035
3-NITROANILINE	SVOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8270C	01/25/2001	0.004	U		
4,6-DINITRO-2-METHYLPHENOL	SVOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8270C	08/21/2002	0.023	U		
4,6-DINITRO-2-METHYLPHENOL	SVOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8270C	05/12/2003	0.016	U	0.016	0.17
4,6-DINITRO-2-METHYLPHENOL	SVOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8270C	07/22/2002	0.024	U	0.024	0.19
4,6-DINITRO-2-METHYLPHENOL	SVOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8270C	07/22/2002	0.021	U	0.021	0.17
4,6-DINITRO-2-METHYLPHENOL	SVOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8270C	07/22/2002	0.022	U	0.022	0.17
4,6-DINITRO-2-METHYLPHENOL	SVOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8270C	07/22/2002	0.051	UJ	0.051	0.4
4,6-DINITRO-2-METHYLPHENOL	SVOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8270C	07/23/2002	0.023	U	0.023	0.18
4,6-DINITRO-2-METHYLPHENOL	SVOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8270C	07/23/2002	0.023	U	0.023	0.19
4,6-DINITRO-2-METHYLPHENOL	SVOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8270C	07/24/2002	0.023	U	0.023	0.18
4,6-DINITRO-2-METHYLPHENOL	SVOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8270C	07/24/2002	0.022	U		
4,6-DINITRO-2-METHYLPHENOL	SVOC	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8270C	07/24/2002	0.022	U	0.022	0.17
4,6-DINITRO-2-METHYLPHENOL	SVOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8270C	07/24/2002	0.021	U	0.021	0.17
4,6-DINITRO-2-METHYLPHENOL	SVOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8270C	08/20/2002	0.026	U	0.026	0.21
4,6-DINITRO-2-METHYLPHENOL	SVOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8270C	08/20/2002	0.022	U	0.022	0.17
4,6-DINITRO-2-METHYLPHENOL	SVOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8270C	08/20/2002	0.022	U		
4,6-DINITRO-2-METHYLPHENOL	SVOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8270C	08/20/2002	0.022	U	0.022	0.17
4,6-DINITRO-2-METHYLPHENOL	SVOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8270C	08/22/2002	0.12	U	0.12	0.99
4,6-DINITRO-2-METHYLPHENOL	SVOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8270C	08/21/2002	0.022	U	0.022	0.17
4,6-DINITRO-2-METHYLPHENOL	SVOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8270C	01/23/2001	0.0049	U	0.0049	0.035
4,6-DINITRO-2-METHYLPHENOL	SVOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8270C	01/25/2001	0.005	U		
4-BROMOPHENYL PHENYL ETHER	SVOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8270C	08/21/2002	0.038	U		
4-BROMOPHENYL PHENYL ETHER	SVOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8270C	05/12/2003	0.027	U	0.027	0.17
4-BROMOPHENYL PHENYL ETHER	SVOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8270C	07/22/2002	0.04	U	0.04	0.19
4-BROMOPHENYL PHENYL ETHER	SVOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8270C	07/22/2002	0.036	U	0.036	0.17
4-BROMOPHENYL PHENYL ETHER	SVOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8270C	07/22/2002	0.037	U	0.037	0.17

TABLE A-2

Database Output of Soil Samples at AVMA Retained After Evaluation [a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
4-BROMOPHENYL PHENYL ETHER	SVOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8270C	07/22/2002	0.085	U	0.085	0.4
4-BROMOPHENYL PHENYL ETHER	SVOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8270C	07/23/2002	0.038	U	0.038	0.18
4-BROMOPHENYL PHENYL ETHER	SVOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8270C	07/23/2002	0.039	U	0.039	0.19
4-BROMOPHENYL PHENYL ETHER	SVOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8270C	07/24/2002	0.038	U	0.038	0.18
4-BROMOPHENYL PHENYL ETHER	SVOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8270C	07/24/2002	0.036	U		
4-BROMOPHENYL PHENYL ETHER	SVOC	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8270C	07/24/2002	0.036	U	0.036	0.17
4-BROMOPHENYL PHENYL ETHER	SVOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8270C	07/24/2002	0.036	U	0.036	0.17
4-BROMOPHENYL PHENYL ETHER	SVOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8270C	08/20/2002	0.043	U	0.043	0.21
4-BROMOPHENYL PHENYL ETHER	SVOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8270C	08/20/2002	0.036	U	0.036	0.17
4-BROMOPHENYL PHENYL ETHER	SVOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8270C	08/20/2002	0.036	U		
4-BROMOPHENYL PHENYL ETHER	SVOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8270C	08/20/2002	0.036	U	0.036	0.17
4-BROMOPHENYL PHENYL ETHER	SVOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8270C	08/22/2002	0.21	U	0.21	0.99
4-BROMOPHENYL PHENYL ETHER	SVOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8270C	08/21/2002	0.036	U	0.036	0.17
4-BROMOPHENYL PHENYL ETHER	SVOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8270C	01/23/2001	0.005	U	0.005	0.035
4-BROMOPHENYL PHENYL ETHER	SVOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8270C	01/25/2001	0.0051	U		
4-CHLORO-3-METHYLPHENOL	SVOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8270C	08/21/2002	0.038	U		
4-CHLORO-3-METHYLPHENOL	SVOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8270C	05/12/2003	0.023	U	0.023	0.17
4-CHLORO-3-METHYLPHENOL	SVOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8270C	07/22/2002	0.04	U	0.04	0.19
4-CHLORO-3-METHYLPHENOL	SVOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8270C	07/22/2002	0.036	U	0.036	0.17
4-CHLORO-3-METHYLPHENOL	SVOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8270C	07/22/2002	0.037	U	0.037	0.17
4-CHLORO-3-METHYLPHENOL	SVOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8270C	07/22/2002	0.085	UJ	0.085	0.4
4-CHLORO-3-METHYLPHENOL	SVOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8270C	07/23/2002	0.038	U	0.038	0.18
4-CHLORO-3-METHYLPHENOL	SVOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8270C	07/23/2002	0.039	U	0.039	0.19
4-CHLORO-3-METHYLPHENOL	SVOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8270C	07/24/2002	0.038	U	0.038	0.18
4-CHLORO-3-METHYLPHENOL	SVOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8270C	07/24/2002	0.036	U		
4-CHLORO-3-METHYLPHENOL	SVOC	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8270C	07/24/2002	0.036	U	0.036	0.17
4-CHLORO-3-METHYLPHENOL	SVOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8270C	07/24/2002	0.036	U	0.036	0.17
4-CHLORO-3-METHYLPHENOL	SVOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8270C	08/20/2002	0.043	U	0.043	0.21
4-CHLORO-3-METHYLPHENOL	SVOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8270C	08/20/2002	0.036	U	0.036	0.17
4-CHLORO-3-METHYLPHENOL	SVOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8270C	08/20/2002	0.036	U		
4-CHLORO-3-METHYLPHENOL	SVOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8270C	08/20/2002	0.036	U	0.036	0.17
4-CHLORO-3-METHYLPHENOL	SVOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8270C	08/22/2002	0.21	U	0.21	0.99
4-CHLORO-3-METHYLPHENOL	SVOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8270C	08/21/2002	0.036	U	0.036	0.17
4-CHLORO-3-METHYLPHENOL	SVOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8270C	01/23/2001	0.039	=	0.0093	0.035
4-CHLORO-3-METHYLPHENOL	SVOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8270C	01/25/2001	0.0097	U		
4-CHLOROANILINE	SVOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8270C	08/21/2002	0.093	UJ		
4-CHLOROANILINE	SVOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8270C	05/12/2003	0.022	U	0.022	0.28
4-CHLOROANILINE	SVOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8270C	07/22/2002	0.099	U	0.099	0.31
4-CHLOROANILINE	SVOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8270C	07/22/2002	0.088	U	0.088	0.28
4-CHLOROANILINE	SVOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8270C	07/22/2002	0.09	U	0.09	0.28
4-CHLOROANILINE	SVOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8270C	07/22/2002	0.21	U	0.21	0.65
4-CHLOROANILINE	SVOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8270C	07/23/2002	0.093	U	0.093	0.29
4-CHLOROANILINE	SVOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8270C	07/23/2002	0.096	U	0.096	0.3
4-CHLOROANILINE	SVOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8270C	07/24/2002	0.093	U	0.093	0.29
4-CHLOROANILINE	SVOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8270C	07/24/2002	0.089	U		
4-CHLOROANILINE	SVOC	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8270C	07/24/2002	0.089	U	0.089	0.28
4-CHLOROANILINE	SVOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8270C	07/24/2002	0.088	U	0.088	0.27
4-CHLOROANILINE	SVOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8270C	08/20/2002	0.11	UJ	0.11	0.33
4-CHLOROANILINE	SVOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8270C	08/20/2002	0.089	UJ	0.089	0.28
4-CHLOROANILINE	SVOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8270C	08/20/2002	0.089	UJ		
4-CHLOROANILINE	SVOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8270C	08/20/2002	0.09	UJ	0.09	0.28

TABLE A-2

Database Output of Soil Samples at AVMA Retained After Evaluation [a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
4-CHLOROANILINE	SVOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8270C	08/22/2002	0.51	UJ	0.51	1.6
4-CHLOROANILINE	SVOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8270C	08/21/2002	0.089	UJ	0.089	0.28
4-CHLOROANILINE	SVOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8270C	01/23/2001	0.0055	U	0.0055	0.035
4-CHLOROANILINE	SVOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8270C	01/25/2001	0.0056	U		
4-CHLOROPHENYL PHENYL ETHER	SVOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8270C	08/21/2002	0.033	U		
4-CHLOROPHENYL PHENYL ETHER	SVOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8270C	05/12/2003	0.025	U	0.025	0.17
4-CHLOROPHENYL PHENYL ETHER	SVOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8270C	07/22/2002	0.035	U	0.035	0.19
4-CHLOROPHENYL PHENYL ETHER	SVOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8270C	07/22/2002	0.031	U	0.031	0.17
4-CHLOROPHENYL PHENYL ETHER	SVOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8270C	07/22/2002	0.032	U	0.032	0.17
4-CHLOROPHENYL PHENYL ETHER	SVOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8270C	07/22/2002	0.074	U	0.074	0.4
4-CHLOROPHENYL PHENYL ETHER	SVOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8270C	07/23/2002	0.033	U	0.033	0.18
4-CHLOROPHENYL PHENYL ETHER	SVOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8270C	07/23/2002	0.034	U	0.034	0.19
4-CHLOROPHENYL PHENYL ETHER	SVOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8270C	07/24/2002	0.033	U	0.033	0.18
4-CHLOROPHENYL PHENYL ETHER	SVOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8270C	07/24/2002	0.032	U		
4-CHLOROPHENYL PHENYL ETHER	SVOC	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8270C	07/24/2002	0.032	U	0.032	0.17
4-CHLOROPHENYL PHENYL ETHER	SVOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8270C	07/24/2002	0.031	U	0.031	0.17
4-CHLOROPHENYL PHENYL ETHER	SVOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8270C	08/20/2002	0.038	U	0.038	0.21
4-CHLOROPHENYL PHENYL ETHER	SVOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8270C	08/20/2002	0.032	U	0.032	0.17
4-CHLOROPHENYL PHENYL ETHER	SVOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8270C	08/20/2002	0.032	U		
4-CHLOROPHENYL PHENYL ETHER	SVOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8270C	08/20/2002	0.032	U	0.032	0.17
4-CHLOROPHENYL PHENYL ETHER	SVOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8270C	08/22/2002	0.18	U	0.18	0.99
4-CHLOROPHENYL PHENYL ETHER	SVOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8270C	08/21/2002	0.032	U	0.032	0.17
4-CHLOROPHENYL PHENYL ETHER	SVOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8270C	01/23/2001	0.0057	U	0.0057	0.035
4-CHLOROPHENYL PHENYL ETHER	SVOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8270C	01/25/2001	0.0058	U		
4-CHLOROTOLUENE	VOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8260B	08/21/2002	0.0026	U		
4-CHLOROTOLUENE	VOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8260B	05/12/2003	0.0021	U	0.0021	0.0079
4-CHLOROTOLUENE	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8260B	07/22/2002	0.008	U	0.008	0.024
4-CHLOROTOLUENE	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.0034	U	0.0034	0.01
4-CHLOROTOLUENE	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.0045	U	0.0045	0.013
4-CHLOROTOLUENE	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.0069	U	0.0069	0.021
4-CHLOROTOLUENE	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.0049	U	0.0049	0.015
4-CHLOROTOLUENE	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.0047	U	0.0047	0.014
4-CHLOROTOLUENE	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.0061	U	0.0061	0.018
4-CHLOROTOLUENE	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.0059	U		
4-CHLOROTOLUENE	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.0064	U	0.0064	0.019
4-CHLOROTOLUENE	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.0036	U	0.0036	0.011
4-CHLOROTOLUENE	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.0023	U	0.0023	0.007
4-CHLOROTOLUENE	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.0023	U		
4-CHLOROTOLUENE	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.0022	U	0.0022	0.0066
4-CHLOROTOLUENE	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.0037	U	0.0037	0.011
4-CHLOROTOLUENE	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.0036	U	0.0036	0.011
4-CHLOROTOLUENE	VOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8260B	01/23/2001	0.00023	U	0.00023	0.00045
4-CHLOROTOLUENE	VOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8260B	01/25/2001	0.00027	U		
4-NITROANILINE	SVOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8270C	08/21/2002	0.04	U		
4-NITROANILINE	SVOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8270C	05/12/2003	0.026	U	0.026	0.17
4-NITROANILINE	SVOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8270C	07/22/2002	0.043	U	0.043	0.19
4-NITROANILINE	SVOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8270C	07/22/2002	0.038	U	0.038	0.17
4-NITROANILINE	SVOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8270C	07/22/2002	0.039	U	0.039	0.17
4-NITROANILINE	SVOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8270C	07/22/2002	0.09	U	0.09	0.4
4-NITROANILINE	SVOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8270C	07/23/2002	0.04	U	0.04	0.18
4-NITROANILINE	SVOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8270C	07/23/2002	0.041	U	0.041	0.19

TABLE A-2

Database Output of Soil Samples at AVMA Retained After Evaluation [a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
4-NITROANILINE	SVOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8270C	07/24/2002	0.04	U	0.04	0.18
4-NITROANILINE	SVOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8270C	07/24/2002	0.038	U		
4-NITROANILINE	SVOC	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8270C	07/24/2002	0.038	U	0.038	0.17
4-NITROANILINE	SVOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8270C	07/24/2002	0.038	U	0.038	0.17
4-NITROANILINE	SVOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8270C	08/20/2002	0.046	U	0.046	0.21
4-NITROANILINE	SVOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8270C	08/20/2002	0.038	U	0.038	0.17
4-NITROANILINE	SVOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8270C	08/20/2002	0.038	U		
4-NITROANILINE	SVOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8270C	08/20/2002	0.039	U	0.039	0.17
4-NITROANILINE	SVOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8270C	08/22/2002	0.22	U	0.22	0.99
4-NITROANILINE	SVOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8270C	08/21/2002	0.038	U	0.038	0.17
4-NITROANILINE	SVOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8270C	01/23/2001	0.0033	U	0.0033	0.035
4-NITROANILINE	SVOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8270C	01/25/2001	0.0034	U		
4-NITROPHENOL	SVOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8270C	08/21/2002	0.023	UJ		
4-NITROPHENOL	SVOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8270C	05/12/2003	0.03	U	0.03	0.17
4-NITROPHENOL	SVOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8270C	07/22/2002	0.025	U	0.025	0.19
4-NITROPHENOL	SVOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8270C	07/22/2002	0.022	U	0.022	0.17
4-NITROPHENOL	SVOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8270C	07/22/2002	0.022	U	0.022	0.17
4-NITROPHENOL	SVOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8270C	07/22/2002	0.052	UJ	0.052	0.4
4-NITROPHENOL	SVOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8270C	07/23/2002	0.023	U	0.023	0.18
4-NITROPHENOL	SVOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8270C	07/23/2002	0.024	U	0.024	0.19
4-NITROPHENOL	SVOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8270C	07/24/2002	0.023	U	0.023	0.18
4-NITROPHENOL	SVOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8270C	07/24/2002	0.022	U		
4-NITROPHENOL	SVOC	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8270C	07/24/2002	0.022	U	0.022	0.17
4-NITROPHENOL	SVOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8270C	07/24/2002	0.022	U	0.022	0.17
4-NITROPHENOL	SVOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8270C	08/20/2002	0.026	U	0.026	0.21
4-NITROPHENOL	SVOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8270C	08/20/2002	0.022	U	0.022	0.17
4-NITROPHENOL	SVOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8270C	08/20/2002	0.022	U		
4-NITROPHENOL	SVOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8270C	08/20/2002	0.022	U	0.022	0.17
4-NITROPHENOL	SVOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8270C	08/22/2002	0.13	UJ	0.13	0.99
4-NITROPHENOL	SVOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8270C	08/21/2002	0.022	UJ	0.022	0.17
4-NITROPHENOL	SVOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8270C	01/23/2001	0.0087	U	0.0087	0.035
4-NITROPHENOL	SVOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8270C	01/25/2001	0.0088	U		
ACENAPHTHENE	SVOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8270C	08/21/2002	0.042	U		
ACENAPHTHENE	SVOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	PAHSIM	05/12/2003	0.000207	U	0.000207	0.00176
ACENAPHTHENE	SVOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8270C	07/22/2002	1.2	=	0.045	0.19
ACENAPHTHENE	SVOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8270C	07/22/2002	0.04	U	0.04	0.17
ACENAPHTHENE	SVOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8270C	07/22/2002	0.057	J	0.041	0.17
ACENAPHTHENE	SVOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8270C	07/22/2002	0.095	U	0.095	0.4
ACENAPHTHENE	SVOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8270C	07/23/2002	0.042	U	0.042	0.18
ACENAPHTHENE	SVOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8270C	07/23/2002	0.044	U	0.044	0.19
ACENAPHTHENE	SVOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8270C	07/24/2002	0.042	U	0.042	0.18
ACENAPHTHENE	SVOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8270C	07/24/2002	0.041	U		
ACENAPHTHENE	SVOC	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8270C	07/24/2002	0.041	U	0.041	0.17
ACENAPHTHENE	SVOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8270C	07/24/2002	0.04	U	0.04	0.17
ACENAPHTHENE	SVOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8270C	08/20/2002	0.049	U	0.049	0.21
ACENAPHTHENE	SVOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8270C	08/20/2002	0.041	U	0.041	0.17
ACENAPHTHENE	SVOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8270C	08/20/2002	0.041	U		
ACENAPHTHENE	SVOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8270C	08/20/2002	0.041	U	0.041	0.17
ACENAPHTHENE	SVOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8270C	08/22/2002	0.23	U	0.23	0.99
ACENAPHTHENE	SVOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8270C	08/21/2002	0.041	U	0.041	0.17
ACENAPHTHENE	SVOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8270C	01/23/2001	3.5	CJ	0.0025	0.007

TABLE A-2

Database Output of Soil Samples at AVMA Retained After Evaluation [a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
ACENAPHTHENE	SVOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8270C	01/25/2001	0.0305	=		
ACENAPHTHYLENE	SVOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8270C	08/21/2002	0.039	U		
ACENAPHTHYLENE	SVOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	PAHSIM	05/12/2003	0.000622	U	0.000622	0.00197
ACENAPHTHYLENE	SVOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8270C	07/22/2002	0.042	U	0.042	0.19
ACENAPHTHYLENE	SVOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8270C	07/22/2002	0.037	U	0.037	0.17
ACENAPHTHYLENE	SVOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8270C	07/22/2002	0.038	U	0.038	0.17
ACENAPHTHYLENE	SVOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8270C	07/22/2002	0.088	U	0.088	0.4
ACENAPHTHYLENE	SVOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8270C	07/23/2002	0.039	U	0.039	0.18
ACENAPHTHYLENE	SVOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8270C	07/23/2002	0.04	U	0.04	0.19
ACENAPHTHYLENE	SVOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8270C	07/24/2002	0.039	U	0.039	0.18
ACENAPHTHYLENE	SVOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8270C	07/24/2002	0.038	U		
ACENAPHTHYLENE	SVOC	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8270C	07/24/2002	0.037	U	0.037	0.17
ACENAPHTHYLENE	SVOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8270C	07/24/2002	0.037	U	0.037	0.17
ACENAPHTHYLENE	SVOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8270C	08/20/2002	0.045	U	0.045	0.21
ACENAPHTHYLENE	SVOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8270C	08/20/2002	0.037	U	0.037	0.17
ACENAPHTHYLENE	SVOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8270C	08/20/2002	0.037	U		
ACENAPHTHYLENE	SVOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8270C	08/20/2002	0.038	U	0.038	0.17
ACENAPHTHYLENE	SVOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8270C	08/22/2002	0.22	U	0.22	0.99
ACENAPHTHYLENE	SVOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8270C	08/21/2002	0.037	U	0.037	0.17
ACENAPHTHYLENE	SVOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8270C	01/23/2001	0.038	=	0.0029	0.007
ACENAPHTHYLENE	SVOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8270C	01/25/2001	0.0029	U		
ACETONE	VOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8260B	08/21/2002	0.012	U		
ACETONE	VOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8260B	05/12/2003	0.09	U	0.019	0.16
ACETONE	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8260B	07/22/2002	0.14	JB	0.039	0.12
ACETONE	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.069	JB	0.016	0.049
ACETONE	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.04	JB	0.021	0.064
ACETONE	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.068	JB	0.033	0.099
ACETONE	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.26	JB	0.024	0.071
ACETONE	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.023	UJ	0.023	0.068
ACETONE	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.033	JB	0.029	0.088
ACETONE	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.028	U		
ACETONE	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.031	U	0.031	0.092
ACETONE	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.017	UJ	0.017	0.052
ACETONE	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.011	UJ	0.011	0.034
ACETONE	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.036	J		
ACETONE	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.011	UJ	0.011	0.032
ACETONE	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.092	=	0.018	0.054
ACETONE	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.017	U	0.017	0.052
ACETONE	VOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8260B	01/23/2001	0.028	=	0.0011	0.0023
ACETONE	VOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8260B	01/25/2001	0.102	=		
ACRYLONITRILE	VOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8260B	08/21/2002	0.0034	U		
ACRYLONITRILE	VOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8260B	05/12/2003	0.0072	U	0.0072	0.022
ACRYLONITRILE	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8260B	07/22/2002	0.011	U	0.011	0.032
ACRYLONITRILE	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.0045	U	0.0045	0.014
ACRYLONITRILE	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.0059	U	0.0059	0.018
ACRYLONITRILE	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.0091	U	0.0091	0.027
ACRYLONITRILE	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.0065	U	0.0065	0.02
ACRYLONITRILE	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.0062	U	0.0062	0.019
ACRYLONITRILE	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.008	U	0.008	0.024
ACRYLONITRILE	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.0077	U		
ACRYLONITRILE	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.0084	U	0.0084	0.025

TABLE A-2

Database Output of Soil Samples at AVMA Retained After Evaluation [a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
ACRYLONITRILE	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.0048	U	0.0048	0.014
ACRYLONITRILE	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.0031	U	0.0031	0.0093
ACRYLONITRILE	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.003	U		
ACRYLONITRILE	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.0029	U	0.0029	0.0087
ACRYLONITRILE	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.0049	U	0.0049	0.015
ACRYLONITRILE	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.0048	U	0.0048	0.014
ALDRIN	PEST/PCB	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8081A	08/21/2002	0.000449	U		
ALDRIN	PEST/PCB	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8081A	07/22/2002	0.00041	U	0.00041	0.0031
ALDRIN	PEST/PCB	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8081A	07/22/2002	0.00037	U	0.00037	0.0028
ALDRIN	PEST/PCB	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8081A	07/22/2002	0.00038	U	0.00038	0.0028
ALDRIN	PEST/PCB	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8081A	07/22/2002	0.00044	U	0.00044	0.0033
ALDRIN	PEST/PCB	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8081A	07/23/2002	0.00039	U	0.00039	0.0029
ALDRIN	PEST/PCB	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8081A	07/23/2002	0.0004	U	0.0004	0.003
ALDRIN	PEST/PCB	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8081A	07/24/2002	0.000389	U	0.000389	0.00294
ALDRIN	PEST/PCB	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8081A	07/24/2002	0.000373	U		
ALDRIN	PEST/PCB	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8081A	07/24/2002	0.00037	U	0.00037	0.0028
ALDRIN	PEST/PCB	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8081A	07/24/2002	0.000367	U	0.000367	0.00277
ALDRIN	PEST/PCB	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8081A	08/20/2002	0.000474	U	0.000474	0.0011
ALDRIN	PEST/PCB	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8081A	08/20/2002	0.00043	U	0.00043	0.000996
ALDRIN	PEST/PCB	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8081A	08/20/2002	0.000406	U		
ALDRIN	PEST/PCB	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8081A	08/20/2002	0.000428	U	0.000428	0.000992
ALDRIN	PEST/PCB	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8081A	08/22/2002	0.00841	U	0.00841	0.0195
ALDRIN	PEST/PCB	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8081A	08/21/2002	0.000415	U	0.000415	0.000962
ALDRIN	PEST/PCB	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8081A	01/23/2001	0.00011	U	0.00011	0.0011
ALDRIN	PEST/PCB	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8081A	01/25/2001	0.0001	U		
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	PEST/PCB	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8081A	08/21/2002	0.000324	U		
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	PEST/PCB	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8081A	07/22/2002	0.00086	J	0.0003	0.0023
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	PEST/PCB	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8081A	07/22/2002	0.001	J	0.00027	0.0021
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	PEST/PCB	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8081A	07/22/2002	0.00028	U	0.00028	0.0021
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	PEST/PCB	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8081A	07/22/2002	0.00054	J	0.00032	0.0024
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	PEST/PCB	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8081A	07/23/2002	0.00028	UJ	0.00028	0.0022
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	PEST/PCB	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8081A	07/23/2002	0.0011	J	0.0003	0.0022
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	PEST/PCB	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8081A	07/24/2002	0.000285	U	0.000285	0.00216
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	PEST/PCB	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8081A	07/24/2002	0.000273	U		
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	PEST/PCB	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8081A	07/24/2002	0.000272	U	0.000272	0.00206
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	PEST/PCB	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8081A	07/24/2002	0.000269	U	0.000269	0.00204
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	PEST/PCB	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8081A	08/20/2002	0.000341	U	0.000341	0.0011
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	PEST/PCB	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8081A	08/20/2002	0.000309	U	0.000309	0.000996
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	PEST/PCB	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8081A	08/20/2002	0.000292	U		
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	PEST/PCB	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8081A	08/20/2002	0.000308	U	0.000308	0.000992
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	PEST/PCB	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8081A	08/22/2002	0.00605	U	0.00605	0.0195
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	PEST/PCB	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8081A	08/21/2002	0.000299	U	0.000299	0.000962
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8081A	01/23/2001	0.00015	U	0.00015	0.0011
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8081A	01/25/2001	0.00014	U		
ALPHA ENDOSULFAN	PEST/PCB	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8081A	08/21/2002	0.000444	U		
ALPHA ENDOSULFAN	PEST/PCB	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8081A	07/22/2002	0.00026	U	0.00026	0.0019
ALPHA ENDOSULFAN	PEST/PCB	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8081A	07/22/2002	0.00023	U	0.00023	0.0017
ALPHA ENDOSULFAN	PEST/PCB	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8081A	07/22/2002	0.00023	U	0.00023	0.0018
ALPHA ENDOSULFAN	PEST/PCB	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8081A	07/22/2002	0.00027	U	0.00027	0.002
ALPHA ENDOSULFAN	PEST/PCB	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8081A	07/23/2002	0.00024	U	0.00024	0.0018
ALPHA ENDOSULFAN	PEST/PCB	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8081A	07/23/2002	0.00025	U	0.00025	0.0019

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Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
ALPHA ENDOSULFAN	PEST/PCB	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8081A	07/24/2002	0.000242	U	0.000242	0.00182
ALPHA ENDOSULFAN	PEST/PCB	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8081A	07/24/2002	0.000232	U		
ALPHA ENDOSULFAN	PEST/PCB	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8081A	07/24/2002	0.00023	U	0.00023	0.00173
ALPHA ENDOSULFAN	PEST/PCB	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8081A	07/24/2002	0.000228	U	0.000228	0.00171
ALPHA ENDOSULFAN	PEST/PCB	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8081A	08/20/2002	0.000468	U	0.000468	0.0011
ALPHA ENDOSULFAN	PEST/PCB	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8081A	08/20/2002	0.000424	U	0.000424	0.000996
ALPHA ENDOSULFAN	PEST/PCB	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8081A	08/20/2002	0.0004	U		
ALPHA ENDOSULFAN	PEST/PCB	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8081A	08/20/2002	0.000422	U	0.000422	0.000992
ALPHA ENDOSULFAN	PEST/PCB	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8081A	08/22/2002	0.00829	U	0.00829	0.0195
ALPHA ENDOSULFAN	PEST/PCB	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8081A	08/21/2002	0.00041	U	0.00041	0.000962
ALPHA ENDOSULFAN	PEST/PCB	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8081A	01/23/2001	0.00016	U	0.00016	0.0011
ALPHA ENDOSULFAN	PEST/PCB	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8081A	01/25/2001	0.00015	U		
ALPHA-CHLORDANE	PEST/PCB	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8081A	08/21/2002	0.000414	U		
ALPHA-CHLORDANE	PEST/PCB	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8081A	07/22/2002	0.00033	U	0.00033	0.0025
ALPHA-CHLORDANE	PEST/PCB	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8081A	07/22/2002	0.00043	J	0.0003	0.0022
ALPHA-CHLORDANE	PEST/PCB	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8081A	07/22/2002	0.0004	J	0.0003	0.0023
ALPHA-CHLORDANE	PEST/PCB	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8081A	07/22/2002	0.0012	J	0.00035	0.0026
ALPHA-CHLORDANE	PEST/PCB	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8081A	07/23/2002	0.0011	J	0.00031	0.0023
ALPHA-CHLORDANE	PEST/PCB	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8081A	07/23/2002	0.00032	U	0.00032	0.0024
ALPHA-CHLORDANE	PEST/PCB	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8081A	07/24/2002	0.000311	U	0.000311	0.00233
ALPHA-CHLORDANE	PEST/PCB	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8081A	07/24/2002	0.000298	U		
ALPHA-CHLORDANE	PEST/PCB	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8081A	07/24/2002	0.000296	U	0.000296	0.00222
ALPHA-CHLORDANE	PEST/PCB	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8081A	07/24/2002	0.000294	U	0.000294	0.0022
ALPHA-CHLORDANE	PEST/PCB	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8081A	08/20/2002	0.000437	U	0.000437	0.0011
ALPHA-CHLORDANE	PEST/PCB	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8081A	08/20/2002	0.000396	U	0.000396	0.000996
ALPHA-CHLORDANE	PEST/PCB	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8081A	08/20/2002	0.000374	U		
ALPHA-CHLORDANE	PEST/PCB	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8081A	08/20/2002	0.000394	U	0.000394	0.000992
ALPHA-CHLORDANE	PEST/PCB	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8081A	08/22/2002	0.00774	U	0.00774	0.0195
ALPHA-CHLORDANE	PEST/PCB	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8081A	08/21/2002	0.000383	U	0.000383	0.000962
ALUMINUM	METAL	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW6010B	08/21/2002	19000	=		
ALUMINUM	METAL	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW6010B	07/22/2002	22000	=	1.5	8.1
ALUMINUM	METAL	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW6010B	07/22/2002	17000	=	1.3	6.9
ALUMINUM	METAL	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW6010B	07/22/2002	20000	=	1.4	7.6
ALUMINUM	METAL	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW6010B	07/22/2002	22000	=	1.3	6.9
ALUMINUM	METAL	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW6010B	07/23/2002	21000	=	1.6	8.5
ALUMINUM	METAL	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW6010B	07/23/2002	21000	=	1.2	6.3
ALUMINUM	METAL	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW6010B	07/24/2002	26000	=	1.5	7.9
ALUMINUM	METAL	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW6010B	07/24/2002	19000	=		
ALUMINUM	METAL	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW6010B	07/24/2002	22000	=	1.4	7.8
ALUMINUM	METAL	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW6010B	07/24/2002	16000	=	0.92	4.9
ALUMINUM	METAL	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW6010B	08/20/2002	26100	=	1.75	9.41
ALUMINUM	METAL	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW6010B	08/20/2002	19800	=	0.946	5.08
ALUMINUM	METAL	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW6010B	08/20/2002	22550	=		
ALUMINUM	METAL	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW6010B	08/20/2002	19000	=	1.42	7.6
ALUMINUM	METAL	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW6010B	08/22/2002	20000	=	1.2	6.7
ALUMINUM	METAL	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW6010B	08/21/2002	19000	=	1.4	7.3
ANTHRACENE	SVOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8270C	08/21/2002	0.038	U		
ANTHRACENE	SVOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	PAHSIM	05/12/2003	0.000265	U	0.000265	0.00176
ANTHRACENE	SVOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8270C	07/22/2002	1.1	=	0.041	0.19
ANTHRACENE	SVOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8270C	07/22/2002	0.047	J	0.037	0.17
ANTHRACENE	SVOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8270C	07/22/2002	0.11	J	0.037	0.17

TABLE A-2

Database Output of Soil Samples at AVMA Retained After Evaluation [a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
ANTHRACENE	SVOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8270C	07/22/2002	0.086	U	0.086	0.4
ANTHRACENE	SVOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8270C	07/23/2002	0.068	J	0.038	0.18
ANTHRACENE	SVOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8270C	07/23/2002	0.072	J	0.04	0.19
ANTHRACENE	SVOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8270C	07/24/2002	0.038	U	0.038	0.18
ANTHRACENE	SVOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8270C	07/24/2002	0.037	U		
ANTHRACENE	SVOC	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8270C	07/24/2002	0.037	U	0.037	0.17
ANTHRACENE	SVOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8270C	07/24/2002	0.036	U	0.036	0.17
ANTHRACENE	SVOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8270C	08/20/2002	0.044	U	0.044	0.21
ANTHRACENE	SVOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8270C	08/20/2002	0.037	U	0.037	0.17
ANTHRACENE	SVOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8270C	08/20/2002	0.037	U		
ANTHRACENE	SVOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8270C	08/20/2002	0.037	U	0.037	0.17
ANTHRACENE	SVOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8270C	08/22/2002	0.21	U	0.21	0.99
ANTHRACENE	SVOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8270C	08/21/2002	0.037	U	0.037	0.17
ANTHRACENE	SVOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8270C	01/23/2001	5.4	CJ	0.0034	0.007
ANTHRACENE	SVOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8270C	01/25/2001	0.042	=		
ANTIMONY	METAL	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW7041	08/21/2002	0.36	D		
ANTIMONY	METAL	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW7041	07/22/2002	0.3	J	0.095	0.55
ANTIMONY	METAL	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW7041	07/22/2002	0.37	JB	0.08	0.47
ANTIMONY	METAL	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW7041	07/22/2002	0.57	JB	0.089	0.52
ANTIMONY	METAL	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW7041	07/22/2002	0.36	J	0.08	0.47
ANTIMONY	METAL	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW7041	07/23/2002	0.35	JB	0.0986	0.573
ANTIMONY	METAL	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW7041	07/23/2002	0.317	JB	0.0728	0.423
ANTIMONY	METAL	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW7041	07/24/2002	0.59	J	0.092	0.53
ANTIMONY	METAL	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW7041	07/24/2002	0.38	J		
ANTIMONY	METAL	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW7041	07/24/2002	0.56	J	0.09	0.52
ANTIMONY	METAL	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW7041	07/24/2002	0.23	J	0.057	0.33
ANTIMONY	METAL	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW7041	08/20/2002	0.418	JB	0.109	0.635
ANTIMONY	METAL	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW7041	08/20/2002	0.16	JB	0.059	0.343
ANTIMONY	METAL	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW7041	08/20/2002	0.215	JB		
ANTIMONY	METAL	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW7041	08/20/2002	0.35	JB	0.0883	0.513
ANTIMONY	METAL	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW7041	08/22/2002	0.09	JB	0.078	0.45
ANTIMONY	METAL	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW7041	08/21/2002	0.16	JB	0.084	0.49
ARSENIC	METAL	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW6010B	08/21/2002	2.1	JB		
ARSENIC	METAL	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW6010B	07/22/2002	1.2	U	1.2	13
ARSENIC	METAL	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW6010B	07/22/2002	1	U	1	11
ARSENIC	METAL	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW6010B	07/22/2002	1.1	U	1.1	12
ARSENIC	METAL	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW6010B	07/22/2002	4.4	J	1	11
ARSENIC	METAL	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW6010B	07/23/2002	6.7	J	1.3	14
ARSENIC	METAL	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW6010B	07/23/2002	3.1	J	0.94	10
ARSENIC	METAL	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW6010B	07/24/2002	3.7	J	1.2	13
ARSENIC	METAL	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW6010B	07/24/2002	1.6	J		
ARSENIC	METAL	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW6010B	07/24/2002	11	J	1.2	13
ARSENIC	METAL	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW6010B	07/24/2002	1	J	0.74	8
ARSENIC	METAL	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW6010B	08/20/2002	5.09	J	1.41	15.3
ARSENIC	METAL	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW6010B	08/20/2002	3.36	J	0.762	8.25
ARSENIC	METAL	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW6010B	08/20/2002	2.11	J		
ARSENIC	METAL	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW6010B	08/20/2002	1.49	J	1.14	12.3
ARSENIC	METAL	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW6010B	08/22/2002	3.8	JB	1	11
ARSENIC	METAL	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW6010B	08/21/2002	3.6	JB	1.1	12
ARSENIC	METAL	Unknown	00FRAW10SL	AP-4146	4.5-6	SW6020	01/23/2001	6.2	=	0.18	0.93
ARSENIC	METAL	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW6020	01/25/2001	7.8	=		

TABLE A-2

Database Output of Soil Samples at AVMA Retained After Evaluation [a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
BARIUM	METAL	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW6010B	08/21/2002	69	=		
BARIUM	METAL	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW6010B	07/22/2002	120	=	0.12	0.41
BARIUM	METAL	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW6010B	07/22/2002	57	=	0.1	0.34
BARIUM	METAL	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW6010B	07/22/2002	90	=	0.11	0.38
BARIUM	METAL	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW6010B	07/22/2002	97	=	0.1	0.34
BARIUM	METAL	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW6010B	07/23/2002	120	=	0.13	0.42
BARIUM	METAL	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW6010B	07/23/2002	120	=	0.093	0.31
BARIUM	METAL	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW6010B	07/24/2002	93	=	0.12	0.39
BARIUM	METAL	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW6010B	07/24/2002	48.5	=		
BARIUM	METAL	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW6010B	07/24/2002	49	=	0.11	0.39
BARIUM	METAL	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW6010B	07/24/2002	37	=	0.073	0.25
BARIUM	METAL	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW6010B	08/20/2002	103	=	0.139	0.47
BARIUM	METAL	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW6010B	08/20/2002	60.5	=	0.075	0.254
BARIUM	METAL	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW6010B	08/20/2002	61.65	=		
BARIUM	METAL	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW6010B	08/20/2002	44	=	0.112	0.38
BARIUM	METAL	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW6010B	08/22/2002	64	=	0.099	0.33
BARIUM	METAL	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW6010B	08/21/2002	43	=	0.11	0.36
BARIUM	METAL	Unknown	00FRAW10SL	AP-4146	4.5-6	SW6010	01/23/2001	110	=	0.019	0.93
BARIUM	METAL	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW6010	01/25/2001	91.5	=		
BENZENE	VOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8260B	08/21/2002	0.0018	U		
BENZENE	VOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8021B	05/12/2003	0.0021	U	0.0021	0.019
BENZENE	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8260B	07/22/2002	0.0058	U	0.0058	0.017
BENZENE	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.0025	U	0.0025	0.0074
BENZENE	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.0032	U	0.0032	0.0097
BENZENE	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.005	U	0.005	0.015
BENZENE	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.0035	U	0.0035	0.011
BENZENE	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.024	=	0.0034	0.01
BENZENE	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.0044	U	0.0044	0.013
BENZENE	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.0042	U		
BENZENE	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.0046	U	0.0046	0.014
BENZENE	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.0026	U	0.0026	0.0078
BENZENE	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.0017	U	0.0017	0.0051
BENZENE	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.0017	U		
BENZENE	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.0016	U	0.0016	0.0048
BENZENE	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.0027	U	0.0027	0.0081
BENZENE	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.0026	U	0.0026	0.0078
BENZENE	VOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8260B	01/23/2001	0.00027	J	0.00023	0.00045
BENZENE	VOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8260B	01/25/2001	0.000885	=		
BENZIDINE	SVOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8270C	08/21/2002	0.28	U		
BENZIDINE	SVOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8270C	08/22/2002	1.6	U	1.6	4.7
BENZIDINE	SVOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8270C	08/21/2002	0.27	U	0.27	0.81
BENZO(a)ANTHRACENE	SVOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8270C	08/21/2002	0.038	U		
BENZO(a)ANTHRACENE	SVOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	PAHSIM	05/12/2003	0.000536	U	0.000536	0.00176
BENZO(a)ANTHRACENE	SVOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8270C	07/22/2002	1.2	=	0.041	0.19
BENZO(a)ANTHRACENE	SVOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8270C	07/22/2002	0.081	J	0.037	0.17
BENZO(a)ANTHRACENE	SVOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8270C	07/22/2002	0.16	J	0.037	0.17
BENZO(a)ANTHRACENE	SVOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8270C	07/22/2002	0.086	U	0.086	0.4
BENZO(a)ANTHRACENE	SVOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8270C	07/23/2002	0.11	J	0.038	0.18
BENZO(a)ANTHRACENE	SVOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8270C	07/23/2002	0.069	J	0.04	0.19
BENZO(a)ANTHRACENE	SVOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8270C	07/24/2002	0.038	U	0.038	0.18
BENZO(a)ANTHRACENE	SVOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8270C	07/24/2002	0.037	U		

TABLE A-2

Database Output of Soil Samples at AVMA Retained After Evaluation [a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
BENZO(a)ANTHRACENE	SVOC	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8270C	07/24/2002	0.037	U	0.037	0.17
BENZO(a)ANTHRACENE	SVOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8270C	07/24/2002	0.036	U	0.036	0.17
BENZO(a)ANTHRACENE	SVOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8270C	08/20/2002	0.044	U	0.044	0.21
BENZO(a)ANTHRACENE	SVOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8270C	08/20/2002	0.037	U	0.037	0.17
BENZO(a)ANTHRACENE	SVOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8270C	08/20/2002	0.037	U		
BENZO(a)ANTHRACENE	SVOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8270C	08/20/2002	0.037	U	0.037	0.17
BENZO(a)ANTHRACENE	SVOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8270C	08/22/2002	0.31	J	0.21	0.99
BENZO(a)ANTHRACENE	SVOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8270C	08/21/2002	0.037	U	0.037	0.17
BENZO(a)ANTHRACENE	SVOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8270C	01/23/2001	49	CJ	0.0022	0.007
BENZO(a)ANTHRACENE	SVOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8270C	01/25/2001	0.1035	=		
BENZO(a)PYRENE	SVOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8270C	08/21/2002	0.031	U		
BENZO(a)PYRENE	SVOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	PAHSIM	05/12/2003	0.000922	U	0.000922	0.0029
BENZO(a)PYRENE	SVOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8270C	07/22/2002	1.1	=	0.034	0.19
BENZO(a)PYRENE	SVOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8270C	07/22/2002	0.069	J	0.03	0.17
BENZO(a)PYRENE	SVOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8270C	07/22/2002	0.17	=	0.031	0.17
BENZO(a)PYRENE	SVOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8270C	07/22/2002	0.071	U	0.071	0.4
BENZO(a)PYRENE	SVOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8270C	07/23/2002	0.096	J	0.031	0.18
BENZO(a)PYRENE	SVOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8270C	07/23/2002	0.051	J	0.033	0.19
BENZO(a)PYRENE	SVOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8270C	07/24/2002	0.031	U	0.031	0.18
BENZO(a)PYRENE	SVOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8270C	07/24/2002	0.03	U		
BENZO(a)PYRENE	SVOC	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8270C	07/24/2002	0.03	U	0.03	0.17
BENZO(a)PYRENE	SVOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8270C	07/24/2002	0.03	U	0.03	0.17
BENZO(a)PYRENE	SVOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8270C	08/20/2002	0.036	U	0.036	0.21
BENZO(a)PYRENE	SVOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8270C	08/20/2002	0.03	U	0.03	0.17
BENZO(a)PYRENE	SVOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8270C	08/20/2002	0.03	U		
BENZO(a)PYRENE	SVOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8270C	08/20/2002	0.03	U	0.03	0.17
BENZO(a)PYRENE	SVOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8270C	08/22/2002	0.17	U	0.17	0.99
BENZO(a)PYRENE	SVOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8270C	08/21/2002	0.03	U	0.03	0.17
BENZO(a)PYRENE	SVOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8270C	01/23/2001	5.1	CJ	0.0029	0.007
BENZO(a)PYRENE	SVOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8270C	01/25/2001	0.003	U		
BENZO(b)FLUORANTHENE	SVOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8270C	08/21/2002	0.028	U		
BENZO(b)FLUORANTHENE	SVOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	PAHSIM	05/12/2003	0.000349	U	0.000349	0.00176
BENZO(b)FLUORANTHENE	SVOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8270C	07/22/2002	1.1	=	0.03	0.19
BENZO(b)FLUORANTHENE	SVOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8270C	07/22/2002	0.049	J	0.026	0.17
BENZO(b)FLUORANTHENE	SVOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8270C	07/22/2002	0.17	=	0.027	0.17
BENZO(b)FLUORANTHENE	SVOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8270C	07/22/2002	0.062	U	0.062	0.4
BENZO(b)FLUORANTHENE	SVOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8270C	07/23/2002	0.094	J	0.028	0.18
BENZO(b)FLUORANTHENE	SVOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8270C	07/23/2002	0.054	J	0.029	0.19
BENZO(b)FLUORANTHENE	SVOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8270C	07/24/2002	0.028	U	0.028	0.18
BENZO(b)FLUORANTHENE	SVOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8270C	07/24/2002	0.027	U		
BENZO(b)FLUORANTHENE	SVOC	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8270C	07/24/2002	0.026	U	0.026	0.17
BENZO(b)FLUORANTHENE	SVOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8270C	07/24/2002	0.026	U	0.026	0.17
BENZO(b)FLUORANTHENE	SVOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8270C	08/20/2002	0.032	U	0.032	0.21
BENZO(b)FLUORANTHENE	SVOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8270C	08/20/2002	0.026	U	0.026	0.17
BENZO(b)FLUORANTHENE	SVOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8270C	08/20/2002	0.027	U		
BENZO(b)FLUORANTHENE	SVOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8270C	08/20/2002	0.027	U	0.027	0.17
BENZO(b)FLUORANTHENE	SVOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8270C	08/22/2002	0.15	U	0.15	0.99
BENZO(b)FLUORANTHENE	SVOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8270C	08/21/2002	0.026	U	0.026	0.17
BENZO(b)FLUORANTHENE	SVOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8270C	01/23/2001	2.2	CJ	0.002	0.007
BENZO(b)FLUORANTHENE	SVOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8270C	01/25/2001	0.002	U		
BENZO(g,h,i)PERYLENE	SVOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8270C	08/21/2002	0.041	U		

TABLE A-2

Database Output of Soil Samples at AVMA Retained After Evaluation [a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
BENZO(g,h,i)PERYLENE	SVOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	PAHSIM	05/12/2003	0.000481	U	0.000481	0.00176
BENZO(g,h,i)PERYLENE	SVOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8270C	07/22/2002	0.47	=	0.044	0.19
BENZO(g,h,i)PERYLENE	SVOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8270C	07/22/2002	0.047	J	0.039	0.17
BENZO(g,h,i)PERYLENE	SVOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8270C	07/22/2002	0.088	J	0.04	0.17
BENZO(g,h,i)PERYLENE	SVOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8270C	07/22/2002	0.092	U	0.092	0.4
BENZO(g,h,i)PERYLENE	SVOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8270C	07/23/2002	0.12	J	0.041	0.18
BENZO(g,h,i)PERYLENE	SVOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8270C	07/23/2002	0.042	U	0.042	0.19
BENZO(g,h,i)PERYLENE	SVOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8270C	07/24/2002	0.041	U	0.041	0.18
BENZO(g,h,i)PERYLENE	SVOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8270C	07/24/2002	0.04	U		
BENZO(g,h,i)PERYLENE	SVOC	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8270C	07/24/2002	0.039	U	0.039	0.17
BENZO(g,h,i)PERYLENE	SVOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8270C	07/24/2002	0.039	U	0.039	0.17
BENZO(g,h,i)PERYLENE	SVOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8270C	08/20/2002	0.047	U	0.047	0.21
BENZO(g,h,i)PERYLENE	SVOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8270C	08/20/2002	0.039	U	0.039	0.17
BENZO(g,h,i)PERYLENE	SVOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8270C	08/20/2002	0.039	U		
BENZO(g,h,i)PERYLENE	SVOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8270C	08/20/2002	0.04	U	0.04	0.17
BENZO(g,h,i)PERYLENE	SVOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8270C	08/22/2002	0.23	U	0.23	0.99
BENZO(g,h,i)PERYLENE	SVOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8270C	08/21/2002	0.039	U	0.039	0.17
BENZO(g,h,i)PERYLENE	SVOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8270C	01/23/2001	3.5	CJ	0.0011	0.007
BENZO(g,h,i)PERYLENE	SVOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8270C	01/25/2001	0.0011	U		
BENZO(k)FLUORANTHENE	SVOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8270C	08/21/2002	0.036	U		
BENZO(k)FLUORANTHENE	SVOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	PAHSIM	05/12/2003	0.000218	U	0.000218	0.00176
BENZO(k)FLUORANTHENE	SVOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8270C	07/22/2002	0.45	=	0.039	0.19
BENZO(k)FLUORANTHENE	SVOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8270C	07/22/2002	0.034	U	0.034	0.17
BENZO(k)FLUORANTHENE	SVOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8270C	07/22/2002	0.085	J	0.035	0.17
BENZO(k)FLUORANTHENE	SVOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8270C	07/22/2002	0.081	U	0.081	0.4
BENZO(k)FLUORANTHENE	SVOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8270C	07/23/2002	0.036	U	0.036	0.18
BENZO(k)FLUORANTHENE	SVOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8270C	07/23/2002	0.037	U	0.037	0.19
BENZO(k)FLUORANTHENE	SVOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8270C	07/24/2002	0.036	U	0.036	0.18
BENZO(k)FLUORANTHENE	SVOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8270C	07/24/2002	0.035	U		
BENZO(k)FLUORANTHENE	SVOC	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8270C	07/24/2002	0.035	U	0.035	0.17
BENZO(k)FLUORANTHENE	SVOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8270C	07/24/2002	0.034	U	0.034	0.17
BENZO(k)FLUORANTHENE	SVOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8270C	08/20/2002	0.041	U	0.041	0.21
BENZO(k)FLUORANTHENE	SVOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8270C	08/20/2002	0.035	U	0.035	0.17
BENZO(k)FLUORANTHENE	SVOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8270C	08/20/2002	0.035	U		
BENZO(k)FLUORANTHENE	SVOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8270C	08/20/2002	0.035	U	0.035	0.17
BENZO(k)FLUORANTHENE	SVOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8270C	08/22/2002	0.2	U	0.2	0.99
BENZO(k)FLUORANTHENE	SVOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8270C	08/21/2002	0.035	U	0.035	0.17
BENZO(k)FLUORANTHENE	SVOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8270C	01/23/2001	2.2	CJ	0.0023	0.007
BENZO(k)FLUORANTHENE	SVOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8270C	01/25/2001	0.0024	U		
BENZOIC ACID	SVOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8270C	08/21/2002	0.47	UR		
BENZOIC ACID	SVOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8270C	05/12/2003	0.015	UJ	0.015	1.3
BENZOIC ACID	SVOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8270C	07/22/2002	0.5	UR	0.5	1.5
BENZOIC ACID	SVOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8270C	07/22/2002	0.44	UR	0.44	1.3
BENZOIC ACID	SVOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8270C	07/22/2002	0.45	UR	0.45	1.4
BENZOIC ACID	SVOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8270C	07/22/2002	1	UR	1	3.1
BENZOIC ACID	SVOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8270C	07/23/2002	0.47	UR	0.47	1.4
BENZOIC ACID	SVOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8270C	07/23/2002	0.48	UR	0.48	1.4
BENZOIC ACID	SVOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8270C	07/24/2002	0.47	UR	0.47	1.4
BENZOIC ACID	SVOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8270C	07/24/2002	0.45	UR		
BENZOIC ACID	SVOC	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8270C	07/24/2002	0.45	UR	0.45	1.3
BENZOIC ACID	SVOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8270C	07/24/2002	0.44	UR	0.44	1.3

TABLE A-2

Database Output of Soil Samples at AVMA Retained After Evaluation [a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
BENZOIC ACID	SVOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8270C	08/20/2002	0.53	UR	0.53	1.6
BENZOIC ACID	SVOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8270C	08/20/2002	0.45	UR	0.45	1.3
BENZOIC ACID	SVOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8270C	08/20/2002	0.45	UR		
BENZOIC ACID	SVOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8270C	08/20/2002	0.45	UR	0.45	1.4
BENZOIC ACID	SVOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8270C	08/22/2002	2.6	UR	2.6	7.7
BENZOIC ACID	SVOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8270C	08/21/2002	0.45	UR	0.45	1.3
BENZOIC ACID	SVOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8270C	01/23/2001	0.0039	U	0.0039	0.035
BENZOIC ACID	SVOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8270C	01/25/2001	0.004	U		
BENZYL ALCOHOL	SVOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8270C	08/21/2002	0.051	UR		
BENZYL ALCOHOL	SVOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8270C	05/12/2003	0.027	UJ	0.027	0.17
BENZYL ALCOHOL	SVOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8270C	07/22/2002	0.054	UJ	0.054	0.19
BENZYL ALCOHOL	SVOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8270C	07/22/2002	0.048	UJ	0.048	0.17
BENZYL ALCOHOL	SVOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8270C	07/22/2002	0.05	UJ	0.05	0.17
BENZYL ALCOHOL	SVOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8270C	07/22/2002	0.11	UJ	0.11	0.4
BENZYL ALCOHOL	SVOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8270C	07/23/2002	0.051	UJ	0.051	0.18
BENZYL ALCOHOL	SVOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8270C	07/23/2002	0.053	UJ	0.053	0.19
BENZYL ALCOHOL	SVOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8270C	07/24/2002	0.051	UR	0.051	0.18
BENZYL ALCOHOL	SVOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8270C	07/24/2002	0.049	UR		
BENZYL ALCOHOL	SVOC	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8270C	07/24/2002	0.049	UR	0.049	0.17
BENZYL ALCOHOL	SVOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8270C	07/24/2002	0.048	UR	0.048	0.17
BENZYL ALCOHOL	SVOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8270C	08/20/2002	0.058	UR	0.058	0.21
BENZYL ALCOHOL	SVOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8270C	08/20/2002	0.049	UR	0.049	0.17
BENZYL ALCOHOL	SVOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8270C	08/20/2002	0.049	UR		
BENZYL ALCOHOL	SVOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8270C	08/20/2002	0.049	UR	0.049	0.17
BENZYL ALCOHOL	SVOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8270C	08/22/2002	0.28	UR	0.28	0.99
BENZYL ALCOHOL	SVOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8270C	08/21/2002	0.049	UR	0.049	0.17
BENZYL ALCOHOL	SVOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8270C	01/23/2001	0.011	U	0.011	0.035
BENZYL ALCOHOL	SVOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8270C	01/25/2001	0.011	U		
BENZYL BUTYL PHTHALATE	SVOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8270C	08/21/2002	0.032	U		
BENZYL BUTYL PHTHALATE	SVOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8270C	05/12/2003	0.024	U	0.024	0.17
BENZYL BUTYL PHTHALATE	SVOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8270C	07/22/2002	0.034	U	0.034	0.19
BENZYL BUTYL PHTHALATE	SVOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8270C	07/22/2002	0.03	U	0.03	0.17
BENZYL BUTYL PHTHALATE	SVOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8270C	07/22/2002	0.031	U	0.031	0.17
BENZYL BUTYL PHTHALATE	SVOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8270C	07/22/2002	0.071	U	0.071	0.4
BENZYL BUTYL PHTHALATE	SVOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8270C	07/23/2002	0.032	U	0.032	0.18
BENZYL BUTYL PHTHALATE	SVOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8270C	07/23/2002	0.033	U	0.033	0.19
BENZYL BUTYL PHTHALATE	SVOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8270C	07/24/2002	0.032	U	0.032	0.18
BENZYL BUTYL PHTHALATE	SVOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8270C	07/24/2002	0.03	U		
BENZYL BUTYL PHTHALATE	SVOC	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8270C	07/24/2002	0.03	U	0.03	0.17
BENZYL BUTYL PHTHALATE	SVOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8270C	07/24/2002	0.03	U	0.03	0.17
BENZYL BUTYL PHTHALATE	SVOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8270C	08/20/2002	0.036	U	0.036	0.21
BENZYL BUTYL PHTHALATE	SVOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8270C	08/20/2002	0.03	U	0.03	0.17
BENZYL BUTYL PHTHALATE	SVOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8270C	08/20/2002	0.03	U		
BENZYL BUTYL PHTHALATE	SVOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8270C	08/20/2002	0.031	U	0.031	0.17
BENZYL BUTYL PHTHALATE	SVOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8270C	08/22/2002	0.17	U	0.17	0.99
BENZYL BUTYL PHTHALATE	SVOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8270C	08/21/2002	0.03	U	0.03	0.17
BENZYL BUTYL PHTHALATE	SVOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8270C	01/23/2001	0.0052	U	0.0052	0.035
BENZYL BUTYL PHTHALATE	SVOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8270C	01/25/2001	0.0053	U		
BERYLLIUM	METAL	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW6010B	08/21/2002	0.4	=		
BERYLLIUM	METAL	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW6010B	07/22/2002	0.41	=	0.02	0.2
BERYLLIUM	METAL	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW6010B	07/22/2002	0.33	=	0.017	0.17

TABLE A-2

Database Output of Soil Samples at AVMA Retained After Evaluation [a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
BERYLLIUM	METAL	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW6010B	07/22/2002	0.4	=	0.019	0.19
BERYLLIUM	METAL	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW6010B	07/22/2002	0.4	=	0.017	0.17
BERYLLIUM	METAL	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW6010B	07/23/2002	0.39	=	0.021	0.21
BERYLLIUM	METAL	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW6010B	07/23/2002	0.44	=	0.016	0.16
BERYLLIUM	METAL	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW6010B	07/24/2002	0.54	=	0.02	0.2
BERYLLIUM	METAL	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW6010B	07/24/2002	0.42	=		
BERYLLIUM	METAL	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW6010B	07/24/2002	0.52	=	0.019	0.19
BERYLLIUM	METAL	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW6010B	07/24/2002	0.35	=	0.012	0.12
BERYLLIUM	METAL	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW6010B	08/20/2002	0.457	=	0.0235	0.235
BERYLLIUM	METAL	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW6010B	08/20/2002	0.441	=	0.0127	0.127
BERYLLIUM	METAL	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW6010B	08/20/2002	0.5355	=		
BERYLLIUM	METAL	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW6010B	08/20/2002	0.44	=	0.019	0.19
BERYLLIUM	METAL	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW6010B	08/22/2002	0.41	=	0.017	0.17
BERYLLIUM	METAL	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW6010B	08/21/2002	0.44	=	0.018	0.18
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	PEST/PCB	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8081A	08/21/2002	0.000441	U		
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	PEST/PCB	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8081A	07/22/2002	0.00061	U	0.00061	0.0046
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	PEST/PCB	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8081A	07/22/2002	0.0023	J	0.00054	0.0041
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	PEST/PCB	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8081A	07/22/2002	0.00077	J	0.00055	0.0042
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	PEST/PCB	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8081A	07/22/2002	0.0012	J	0.00064	0.0048
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	PEST/PCB	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8081A	07/23/2002	0.00096	J	0.00057	0.0043
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	PEST/PCB	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8081A	07/23/2002	0.0033	J	0.00059	0.0045
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	PEST/PCB	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8081A	07/24/2002	0.00057	U	0.00057	0.00432
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	PEST/PCB	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8081A	07/24/2002	0.000567	J		
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	PEST/PCB	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8081A	07/24/2002	0.000543	U	0.000543	0.00412
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	PEST/PCB	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8081A	07/24/2002	0.000538	U	0.000538	0.00408
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	PEST/PCB	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8081A	08/20/2002	0.000465	U	0.000465	0.0011
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	PEST/PCB	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8081A	08/20/2002	0.000421	U	0.000421	0.000996
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	PEST/PCB	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8081A	08/20/2002	0.000398	U		
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	PEST/PCB	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8081A	08/20/2002	0.00042	U	0.00042	0.000992
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	PEST/PCB	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8081A	08/22/2002	0.00824	U	0.00824	0.0195
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	PEST/PCB	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8081A	08/21/2002	0.000407	U	0.000407	0.000962
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8081A	01/23/2001	0.00024	U	0.00024	0.0011
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8081A	01/25/2001	0.00023	U		
BETA ENDOSULFAN	PEST/PCB	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8081A	08/21/2002	0.000403	U		
BETA ENDOSULFAN	PEST/PCB	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8081A	07/22/2002	0.0004	U	0.0004	0.003
BETA ENDOSULFAN	PEST/PCB	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8081A	07/22/2002	0.00036	U	0.00036	0.0027
BETA ENDOSULFAN	PEST/PCB	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8081A	07/22/2002	0.00037	U	0.00037	0.0028
BETA ENDOSULFAN	PEST/PCB	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8081A	07/22/2002	0.00043	U	0.00043	0.0032
BETA ENDOSULFAN	PEST/PCB	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8081A	07/23/2002	0.00038	U	0.00038	0.0028
BETA ENDOSULFAN	PEST/PCB	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8081A	07/23/2002	0.00039	U	0.00039	0.003
BETA ENDOSULFAN	PEST/PCB	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8081A	07/24/2002	0.00038	U	0.00038	0.00285
BETA ENDOSULFAN	PEST/PCB	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8081A	07/24/2002	0.000364	U		
BETA ENDOSULFAN	PEST/PCB	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8081A	07/24/2002	0.000362	U	0.000362	0.00272
BETA ENDOSULFAN	PEST/PCB	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8081A	07/24/2002	0.000359	U	0.000359	0.00269
BETA ENDOSULFAN	PEST/PCB	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8081A	08/20/2002	0.000425	U	0.000425	0.0022
BETA ENDOSULFAN	PEST/PCB	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8081A	08/20/2002	0.000385	U	0.000385	0.00199
BETA ENDOSULFAN	PEST/PCB	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8081A	08/20/2002	0.000363	U		
BETA ENDOSULFAN	PEST/PCB	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8081A	08/20/2002	0.000383	U	0.000383	0.00198
BETA ENDOSULFAN	PEST/PCB	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8081A	08/22/2002	0.00753	U	0.00753	0.039
BETA ENDOSULFAN	PEST/PCB	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8081A	08/21/2002	0.000372	U	0.000372	0.00192
BETA ENDOSULFAN	PEST/PCB	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8081A	01/23/2001	0.00031	U	0.00031	0.0021

TABLE A-2

Database Output of Soil Samples at AVMA Retained After Evaluation [a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
BETA ENDOSULFAN	PEST/PCB	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8081A	01/25/2001	0.0003	U		
bis(2-CHLOROETHOXY) METHANE	SVOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8270C	08/21/2002	0.068	U		
bis(2-CHLOROETHOXY) METHANE	SVOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8270C	05/12/2003	0.024	U	0.024	0.2
bis(2-CHLOROETHOXY) METHANE	SVOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8270C	07/22/2002	0.073	U	0.073	0.22
bis(2-CHLOROETHOXY) METHANE	SVOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8270C	07/22/2002	0.065	U	0.065	0.19
bis(2-CHLOROETHOXY) METHANE	SVOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8270C	07/22/2002	0.067	U	0.067	0.2
bis(2-CHLOROETHOXY) METHANE	SVOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8270C	07/22/2002	0.15	U	0.15	0.46
bis(2-CHLOROETHOXY) METHANE	SVOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8270C	07/23/2002	0.068	U	0.068	0.2
bis(2-CHLOROETHOXY) METHANE	SVOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8270C	07/23/2002	0.071	U	0.071	0.21
bis(2-CHLOROETHOXY) METHANE	SVOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8270C	07/24/2002	0.069	U	0.069	0.2
bis(2-CHLOROETHOXY) METHANE	SVOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8270C	07/24/2002	0.066	U		
bis(2-CHLOROETHOXY) METHANE	SVOC	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8270C	07/24/2002	0.065	U	0.065	0.2
bis(2-CHLOROETHOXY) METHANE	SVOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8270C	07/24/2002	0.065	U	0.065	0.19
bis(2-CHLOROETHOXY) METHANE	SVOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8270C	08/20/2002	0.078	U	0.078	0.23
bis(2-CHLOROETHOXY) METHANE	SVOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8270C	08/20/2002	0.066	U	0.066	0.2
bis(2-CHLOROETHOXY) METHANE	SVOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8270C	08/20/2002	0.066	U		
bis(2-CHLOROETHOXY) METHANE	SVOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8270C	08/20/2002	0.066	U	0.066	0.2
bis(2-CHLOROETHOXY) METHANE	SVOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8270C	08/22/2002	0.38	U	0.38	1.1
bis(2-CHLOROETHOXY) METHANE	SVOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8270C	08/21/2002	0.066	U	0.066	0.2
bis(2-CHLOROETHOXY) METHANE	SVOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8270C	01/23/2001	0.0064	U	0.0064	0.035
bis(2-CHLOROETHOXY) METHANE	SVOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8270C	01/25/2001	0.0065	U		
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SVOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8270C	08/21/2002	0.071	U		
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SVOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8270C	05/12/2003	0.023	U	0.023	0.21
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SVOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8270C	07/22/2002	0.076	U	0.076	0.23
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SVOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8270C	07/22/2002	0.068	U	0.068	0.21
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SVOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8270C	07/22/2002	0.069	U	0.069	0.21
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SVOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8270C	07/22/2002	0.16	U	0.16	0.48
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SVOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8270C	07/23/2002	0.071	U	0.071	0.22
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SVOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8270C	07/23/2002	0.074	U	0.074	0.22
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SVOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8270C	07/24/2002	0.071	U	0.071	0.22
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SVOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8270C	07/24/2002	0.068	U		
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SVOC	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8270C	07/24/2002	0.068	U	0.068	0.21
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SVOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8270C	07/24/2002	0.067	U	0.067	0.2
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SVOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8270C	08/20/2002	0.082	U	0.082	0.25
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SVOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8270C	08/20/2002	0.068	U	0.068	0.21
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SVOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8270C	08/20/2002	0.068	U		
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SVOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8270C	08/20/2002	0.069	U	0.069	0.21
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SVOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8270C	08/22/2002	0.39	U	0.39	1.2
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SVOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8270C	08/21/2002	0.068	U	0.068	0.21
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SVOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8270C	01/23/2001	0.0074	U	0.0074	0.035
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	SVOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8270C	01/25/2001	0.0076	U		
bis(2-CHLOROISOPROPYL) ETHER	SVOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8270C	08/21/2002	0.078	U		
bis(2-CHLOROISOPROPYL) ETHER	SVOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8270C	05/12/2003	0.015	U	0.015	0.23
bis(2-CHLOROISOPROPYL) ETHER	SVOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8270C	07/22/2002	0.083	U	0.083	0.25
bis(2-CHLOROISOPROPYL) ETHER	SVOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8270C	07/22/2002	0.074	U	0.074	0.23
bis(2-CHLOROISOPROPYL) ETHER	SVOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8270C	07/22/2002	0.076	U	0.076	0.23
bis(2-CHLOROISOPROPYL) ETHER	SVOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8270C	07/22/2002	0.17	U	0.17	0.53
bis(2-CHLOROISOPROPYL) ETHER	SVOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8270C	07/23/2002	0.078	U	0.078	0.24
bis(2-CHLOROISOPROPYL) ETHER	SVOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8270C	07/23/2002	0.081	U	0.081	0.24
bis(2-CHLOROISOPROPYL) ETHER	SVOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8270C	07/24/2002	0.078	U	0.078	0.24
bis(2-CHLOROISOPROPYL) ETHER	SVOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8270C	07/24/2002	0.075	U		

TABLE A-2

Database Output of Soil Samples at AVMA Retained After Evaluation [a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
bis(2-CHLOROISOPROPYL) ETHER	SVOC	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8270C	07/24/2002	0.075	U	0.075	0.23
bis(2-CHLOROISOPROPYL) ETHER	SVOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8270C	07/24/2002	0.074	U	0.074	0.22
bis(2-CHLOROISOPROPYL) ETHER	SVOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8270C	08/20/2002	0.089	U	0.089	0.27
bis(2-CHLOROISOPROPYL) ETHER	SVOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8270C	08/20/2002	0.075	U	0.075	0.23
bis(2-CHLOROISOPROPYL) ETHER	SVOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8270C	08/20/2002	0.075	U		
bis(2-CHLOROISOPROPYL) ETHER	SVOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8270C	08/20/2002	0.075	U	0.075	0.23
bis(2-CHLOROISOPROPYL) ETHER	SVOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8270C	08/22/2002	0.43	U	0.43	1.3
bis(2-CHLOROISOPROPYL) ETHER	SVOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8270C	08/21/2002	0.075	U	0.075	0.23
bis(2-CHLOROISOPROPYL) ETHER	SVOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8270C	01/23/2001	0.0097	U	0.0097	0.035
bis(2-CHLOROISOPROPYL) ETHER	SVOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8270C	01/25/2001	0.0099	U		
bis(2-ETHYLHEXYL) PHTHALATE	SVOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8270C	08/21/2002	0.073	J		
bis(2-ETHYLHEXYL) PHTHALATE	SVOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8270C	05/12/2003	0.023	U	0.023	0.17
bis(2-ETHYLHEXYL) PHTHALATE	SVOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8270C	07/22/2002	0.048	J	0.038	0.19
bis(2-ETHYLHEXYL) PHTHALATE	SVOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8270C	07/22/2002	0.079	J	0.034	0.17
bis(2-ETHYLHEXYL) PHTHALATE	SVOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8270C	07/22/2002	0.041	J	0.035	0.17
bis(2-ETHYLHEXYL) PHTHALATE	SVOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8270C	07/22/2002	0.08	U	0.08	0.4
bis(2-ETHYLHEXYL) PHTHALATE	SVOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8270C	07/23/2002	0.071	J	0.036	0.18
bis(2-ETHYLHEXYL) PHTHALATE	SVOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8270C	07/23/2002	0.037	U	0.037	0.19
bis(2-ETHYLHEXYL) PHTHALATE	SVOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8270C	07/24/2002	0.036	U	0.036	0.18
bis(2-ETHYLHEXYL) PHTHALATE	SVOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8270C	07/24/2002	0.034	U		
bis(2-ETHYLHEXYL) PHTHALATE	SVOC	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8270C	07/24/2002	0.034	U	0.034	0.17
bis(2-ETHYLHEXYL) PHTHALATE	SVOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8270C	07/24/2002	0.034	U	0.034	0.17
bis(2-ETHYLHEXYL) PHTHALATE	SVOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8270C	08/20/2002	0.073	J	0.041	0.21
bis(2-ETHYLHEXYL) PHTHALATE	SVOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8270C	08/20/2002	0.05	J	0.034	0.17
bis(2-ETHYLHEXYL) PHTHALATE	SVOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8270C	08/20/2002	0.0795	J		
bis(2-ETHYLHEXYL) PHTHALATE	SVOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8270C	08/20/2002	0.071	J	0.035	0.17
bis(2-ETHYLHEXYL) PHTHALATE	SVOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8270C	08/22/2002	0.2	U	0.2	0.99
bis(2-ETHYLHEXYL) PHTHALATE	SVOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8270C	08/21/2002	0.034	U	0.034	0.17
bis(2-ETHYLHEXYL) PHTHALATE	SVOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8270C	01/23/2001	0.011	U	0.011	0.035
bis(2-ETHYLHEXYL) PHTHALATE	SVOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8270C	01/25/2001	0.011	U		
BROMOBENZENE	VOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8260B	08/21/2002	0.0035	U		
BROMOBENZENE	VOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8260B	05/12/2003	0.002	U	0.002	0.0079
BROMOBENZENE	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8260B	07/22/2002	0.011	U	0.011	0.033
BROMOBENZENE	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.0047	U	0.0047	0.014
BROMOBENZENE	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.0061	U	0.0061	0.018
BROMOBENZENE	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.0094	U	0.0094	0.028
BROMOBENZENE	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.0067	U	0.0067	0.02
BROMOBENZENE	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.0064	U	0.0064	0.019
BROMOBENZENE	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.0083	U	0.0083	0.025
BROMOBENZENE	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.008	U		
BROMOBENZENE	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.0087	U	0.0087	0.026
BROMOBENZENE	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.0049	U	0.0049	0.015
BROMOBENZENE	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.0032	U	0.0032	0.0095
BROMOBENZENE	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.0031	U		
BROMOBENZENE	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.003	U	0.003	0.009
BROMOBENZENE	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.0051	U	0.0051	0.015
BROMOBENZENE	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.0049	U	0.0049	0.015
BROMOBENZENE	VOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8260B	01/23/2001	0.00023	U	0.00023	0.00045
BROMOBENZENE	VOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8260B	01/25/2001	0.00027	U		
BROMOCHLOROMETHANE	VOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8260B	08/21/2002	0.0035	U		
BROMOCHLOROMETHANE	VOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8260B	05/12/2003	0.011	U	0.011	0.033

TABLE A-2

Database Output of Soil Samples at AVMA Retained After Evaluation [a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
BROMOCHLOROMETHANE	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8260B	07/22/2002	0.011	U	0.011	0.033
BROMOCHLOROMETHANE	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.0047	U	0.0047	0.014
BROMOCHLOROMETHANE	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.0061	U	0.0061	0.018
BROMOCHLOROMETHANE	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.0094	U	0.0094	0.028
BROMOCHLOROMETHANE	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.0067	U	0.0067	0.02
BROMOCHLOROMETHANE	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.0064	U	0.0064	0.019
BROMOCHLOROMETHANE	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.0083	U	0.0083	0.025
BROMOCHLOROMETHANE	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.008	U		
BROMOCHLOROMETHANE	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.0087	U	0.0087	0.026
BROMOCHLOROMETHANE	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.0049	U	0.0049	0.015
BROMOCHLOROMETHANE	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.0032	U	0.0032	0.0095
BROMOCHLOROMETHANE	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.0031	UJ		
BROMOCHLOROMETHANE	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.003	U	0.003	0.009
BROMOCHLOROMETHANE	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.0051	U	0.0051	0.015
BROMOCHLOROMETHANE	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.0049	U	0.0049	0.015
BROMOCHLOROMETHANE	VOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8260B	01/23/2001	0.00023	U	0.00023	0.00045
BROMOCHLOROMETHANE	VOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8260B	01/25/2001	0.00027	U		
BROMODICHLOROMETHANE	VOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8260B	08/21/2002	0.0024	U		
BROMODICHLOROMETHANE	VOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8260B	05/12/2003	0.0026	U	0.0026	0.0078
BROMODICHLOROMETHANE	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8260B	07/22/2002	0.0074	U	0.0074	0.022
BROMODICHLOROMETHANE	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.0032	U	0.0032	0.0095
BROMODICHLOROMETHANE	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.0041	U	0.0041	0.012
BROMODICHLOROMETHANE	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.0063	U	0.0063	0.019
BROMODICHLOROMETHANE	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.0045	U	0.0045	0.014
BROMODICHLOROMETHANE	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.0043	U	0.0043	0.013
BROMODICHLOROMETHANE	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.0056	U	0.0056	0.017
BROMODICHLOROMETHANE	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.0054	U		
BROMODICHLOROMETHANE	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.0059	U	0.0059	0.018
BROMODICHLOROMETHANE	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.0033	U	0.0033	0.01
BROMODICHLOROMETHANE	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.0022	U	0.0022	0.0065
BROMODICHLOROMETHANE	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.0021	U		
BROMODICHLOROMETHANE	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.002	U	0.002	0.0061
BROMODICHLOROMETHANE	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.0034	U	0.0034	0.01
BROMODICHLOROMETHANE	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.0033	U	0.0033	0.0099
BROMODICHLOROMETHANE	VOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8260B	01/23/2001	0.00023	U	0.00023	0.00045
BROMODICHLOROMETHANE	VOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8260B	01/25/2001	0.00027	U		
BROMOFORM	VOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8260B	08/21/2002	0.0033	U		
BROMOFORM	VOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8260B	05/12/2003	0.0037	U	0.0037	0.011
BROMOFORM	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8260B	07/22/2002	0.01	U	0.01	0.031
BROMOFORM	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.0044	U	0.0044	0.013
BROMOFORM	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.0057	U	0.0057	0.017
BROMOFORM	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.0088	U	0.0088	0.026
BROMOFORM	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.0063	U	0.0063	0.019
BROMOFORM	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.006	U	0.006	0.018
BROMOFORM	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.0078	U	0.0078	0.023
BROMOFORM	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.0075	U		
BROMOFORM	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.0081	U	0.0081	0.024
BROMOFORM	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.0046	U	0.0046	0.014
BROMOFORM	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.003	U	0.003	0.009
BROMOFORM	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.0029	U		
BROMOFORM	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.0028	U	0.0028	0.0084

TABLE A-2

Database Output of Soil Samples at AVMA Retained After Evaluation [a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
BROMOFORM	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.0048	U	0.0048	0.014
BROMOFORM	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.0046	U	0.0046	0.014
BROMOFORM	VOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8260B	01/23/2001	0.00023	U	0.00023	0.00045
BROMOFORM	VOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8260B	01/25/2001	0.00027	U		
BROMOMETHANE	VOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8260B	08/21/2002	0.0078	U		
BROMOMETHANE	VOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8260B	05/12/2003	0.012	UJ	0.012	0.036
BROMOMETHANE	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8260B	07/22/2002	0.024	U	0.024	0.073
BROMOMETHANE	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.01	U	0.01	0.031
BROMOMETHANE	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.014	U	0.014	0.041
BROMOMETHANE	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.021	U	0.021	0.063
BROMOMETHANE	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.015	UJ	0.015	0.045
BROMOMETHANE	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.014	UJ	0.014	0.043
BROMOMETHANE	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.018	UJ	0.018	0.055
BROMOMETHANE	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.018	UJ		
BROMOMETHANE	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.019	UJ	0.019	0.058
BROMOMETHANE	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.011	UJ	0.011	0.033
BROMOMETHANE	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.0071	UJ	0.0071	0.021
BROMOMETHANE	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.007	UJ		
BROMOMETHANE	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.0067	UJ	0.0067	0.02
BROMOMETHANE	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.011	U	0.011	0.034
BROMOMETHANE	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.011	U	0.011	0.033
BROMOMETHANE	VOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8260B	01/23/2001	0.00023	U	0.00023	0.00045
BROMOMETHANE	VOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8260B	01/25/2001	0.00027	U		
CADMIUM	METAL	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW6010B	08/21/2002	0.91	=		
CADMIUM	METAL	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW6010B	07/22/2002	0.94	=	0.071	0.81
CADMIUM	METAL	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW6010B	07/22/2002	0.91	=	0.06	0.69
CADMIUM	METAL	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW6010B	07/22/2002	0.98	=	0.067	0.76
CADMIUM	METAL	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW6010B	07/22/2002	0.88	=	0.06	0.69
CADMIUM	METAL	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW6010B	07/23/2002	0.88	=	0.074	0.85
CADMIUM	METAL	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW6010B	07/23/2002	0.92	=	0.055	0.63
CADMIUM	METAL	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW6010B	07/24/2002	0.84	=	0.069	0.79
CADMIUM	METAL	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW6010B	07/24/2002	0.795	D		
CADMIUM	METAL	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW6010B	07/24/2002	1	=	0.068	0.78
CADMIUM	METAL	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW6010B	07/24/2002	0.75	=	0.043	0.49
CADMIUM	METAL	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW6010B	08/20/2002	1.08	=	0.0823	0.941
CADMIUM	METAL	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW6010B	08/20/2002	0.964	=	0.0444	0.508
CADMIUM	METAL	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW6010B	08/20/2002	1.11	=		
CADMIUM	METAL	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW6010B	08/20/2002	0.939	=	0.0665	0.76
CADMIUM	METAL	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW6010B	08/22/2002	1	=	0.058	0.67
CADMIUM	METAL	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW6010B	08/21/2002	0.98	=	0.063	0.73
CADMIUM	METAL	Unknown	00FRAW10SL	AP-4146	4.5-6	SW6010	01/23/2001	0.056	U	0.056	0.93
CADMIUM	METAL	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW6010	01/25/2001	1.4	=		
CALCIUM	METAL	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW6010B	08/21/2002	7800	=		
CALCIUM	METAL	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW6010B	07/22/2002	4800	=	1.2	14
CALCIUM	METAL	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW6010B	07/22/2002	9200	=	1	12
CALCIUM	METAL	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW6010B	07/22/2002	6000	=	1.1	13
CALCIUM	METAL	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW6010B	07/22/2002	5200	=	1	12
CALCIUM	METAL	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW6010B	07/23/2002	5000	=	1.3	15
CALCIUM	METAL	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW6010B	07/23/2002	5900	=	0.94	11
CALCIUM	METAL	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW6010B	07/24/2002	5400	=	1.2	14
CALCIUM	METAL	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW6010B	07/24/2002	7750	=		

TABLE A-2

Database Output of Soil Samples at AVMA Retained After Evaluation [a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
CALCIUM	METAL	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW6010B	07/24/2002	8200	=	1.2	14
CALCIUM	METAL	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW6010B	07/24/2002	7500	=	0.74	8.6
CALCIUM	METAL	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW6010B	08/20/2002	5260	=	1.41	16.5
CALCIUM	METAL	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW6010B	08/20/2002	8170	=	0.762	8.89
CALCIUM	METAL	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW6010B	08/20/2002	12050	=		
CALCIUM	METAL	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW6010B	08/20/2002	9180	=	1.14	13.3
CALCIUM	METAL	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW6010B	08/22/2002	7200	=	1	12
CALCIUM	METAL	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW6010B	08/21/2002	8900	=	1.1	13
CARBON DISULFIDE	VOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8260B	08/21/2002	0.0013	U		
CARBON DISULFIDE	VOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8260B	05/12/2003	0.0045	U	0.0045	0.013
CARBON DISULFIDE	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8260B	07/22/2002	0.0042	U	0.0042	0.016
CARBON DISULFIDE	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.0018	U	0.0018	0.0069
CARBON DISULFIDE	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.0023	U	0.0023	0.009
CARBON DISULFIDE	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.0036	U	0.0036	0.014
CARBON DISULFIDE	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.0026	U	0.0026	0.0098
CARBON DISULFIDE	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.0024	U	0.0024	0.0094
CARBON DISULFIDE	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.0032	U	0.0032	0.012
CARBON DISULFIDE	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.003	U		
CARBON DISULFIDE	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.0033	U	0.0033	0.013
CARBON DISULFIDE	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.0019	UJ	0.0019	0.0072
CARBON DISULFIDE	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.0012	UJ	0.0012	0.0047
CARBON DISULFIDE	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.0012	U		
CARBON DISULFIDE	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.0011	UJ	0.0011	0.0044
CARBON DISULFIDE	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.0019	UJ	0.0019	0.0075
CARBON DISULFIDE	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.0019	UJ	0.0019	0.0072
CARBON DISULFIDE	VOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8260B	01/23/2001	0.00023	U	0.00023	0.00045
CARBON DISULFIDE	VOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8260B	01/25/2001	0.00027	U		
CARBON TETRACHLORIDE	VOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8260B	08/21/2002	0.0017	U		
CARBON TETRACHLORIDE	VOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8260B	05/12/2003	0.0028	U	0.0028	0.0085
CARBON TETRACHLORIDE	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8260B	07/22/2002	0.0055	U	0.0055	0.016
CARBON TETRACHLORIDE	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.0023	U	0.0023	0.007
CARBON TETRACHLORIDE	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.003	U	0.003	0.0091
CARBON TETRACHLORIDE	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.0047	U	0.0047	0.014
CARBON TETRACHLORIDE	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.0033	U	0.0033	0.01
CARBON TETRACHLORIDE	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.0032	U	0.0032	0.0096
CARBON TETRACHLORIDE	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.0041	U	0.0041	0.012
CARBON TETRACHLORIDE	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.004	U		
CARBON TETRACHLORIDE	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.0043	U	0.0043	0.013
CARBON TETRACHLORIDE	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.0025	U	0.0025	0.0074
CARBON TETRACHLORIDE	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.0016	U	0.0016	0.0048
CARBON TETRACHLORIDE	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.0016	U		
CARBON TETRACHLORIDE	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.0015	U	0.0015	0.0045
CARBON TETRACHLORIDE	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.0025	U	0.0025	0.0076
CARBON TETRACHLORIDE	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.0024	U	0.0024	0.0073
CARBON TETRACHLORIDE	VOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8260B	01/23/2001	0.00023	U	0.00023	0.00045
CARBON TETRACHLORIDE	VOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8260B	01/25/2001	0.00027	U		
CHLORDANE	PEST/PCB	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8081A	08/21/2002	0.00147	U		
CHLORDANE	PEST/PCB	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8081A	08/20/2002	0.00155	U	0.00155	0.011
CHLORDANE	PEST/PCB	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8081A	08/20/2002	0.0014	U	0.0014	0.00996
CHLORDANE	PEST/PCB	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8081A	08/20/2002	0.00132	U		
CHLORDANE	PEST/PCB	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8081A	08/20/2002	0.0014	U	0.0014	0.00992

TABLE A-2

Database Output of Soil Samples at AVMA Retained After Evaluation [a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
CHLORDANE	PEST/PCB	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8081A	08/22/2002	0.0274	U	0.0274	0.195
CHLORDANE	PEST/PCB	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8081A	08/21/2002	0.00135	U	0.00135	0.00962
CHLORDANE	PEST/PCB	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8081A	01/23/2001	0.0073	U	0.0073	0.011
CHLORDANE	PEST/PCB	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8081A	01/25/2001	0.0072	U		
CHLOROBENZENE	VOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8260B	08/21/2002	0.0011	U		
CHLOROBENZENE	VOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8260B	05/12/2003	0.0032	U	0.0032	0.0096
CHLOROBENZENE	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8260B	07/22/2002	0.0035	U	0.0035	0.016
CHLOROBENZENE	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.0015	U	0.0015	0.0069
CHLOROBENZENE	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.002	U	0.002	0.009
CHLOROBENZENE	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.003	U	0.003	0.014
CHLOROBENZENE	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.0022	U	0.0022	0.0098
CHLOROBENZENE	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.0021	U	0.0021	0.0094
CHLOROBENZENE	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.0027	U	0.0027	0.012
CHLOROBENZENE	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.0026	U		
CHLOROBENZENE	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.0028	U	0.0028	0.013
CHLOROBENZENE	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.0016	U	0.0016	0.0072
CHLOROBENZENE	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.001	U	0.001	0.0047
CHLOROBENZENE	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.001	U		
CHLOROBENZENE	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.00097	U	0.00097	0.0044
CHLOROBENZENE	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.0016	U	0.0016	0.0075
CHLOROBENZENE	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.0016	U	0.0016	0.0072
CHLOROBENZENE	VOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8260B	01/23/2001	0.00023	U	0.00023	0.00045
CHLOROBENZENE	VOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8260B	01/25/2001	0.00027	U		
CHLOROETHANE	VOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8260B	08/21/2002	0.0037	U		
CHLOROETHANE	VOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8260B	05/12/2003	0.018	UJ	0.018	0.055
CHLOROETHANE	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8260B	07/22/2002	0.012	U	0.012	0.035
CHLOROETHANE	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.0049	U	0.0049	0.015
CHLOROETHANE	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.0064	U	0.0064	0.019
CHLOROETHANE	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.0099	U	0.0099	0.03
CHLOROETHANE	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.0071	UJ	0.0071	0.021
CHLOROETHANE	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.0068	UJ	0.0068	0.02
CHLOROETHANE	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.0088	UJ	0.0088	0.026
CHLOROETHANE	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.0084	UJ		
CHLOROETHANE	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.0092	UJ	0.0092	0.027
CHLOROETHANE	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.0052	UJ	0.0052	0.016
CHLOROETHANE	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.0034	UJ	0.0034	0.01
CHLOROETHANE	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.0033	UJ		
CHLOROETHANE	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.0032	UJ	0.0032	0.0095
CHLOROETHANE	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.0054	U	0.0054	0.016
CHLOROETHANE	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.0052	U	0.0052	0.016
CHLOROETHANE	VOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8260B	01/23/2001	0.00023	U	0.00023	0.00045
CHLOROETHANE	VOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8260B	01/25/2001	0.00027	U		
CHLOROFORM	VOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8260B	08/21/2002	0.0026	U		
CHLOROFORM	VOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8260B	05/12/2003	0.0034	U	0.0034	0.01
CHLOROFORM	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8260B	07/22/2002	0.008	U	0.008	0.024
CHLOROFORM	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.0034	U	0.0034	0.01
CHLOROFORM	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.0045	U	0.0045	0.013
CHLOROFORM	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.0069	U	0.0069	0.021
CHLOROFORM	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.0049	U	0.0049	0.015
CHLOROFORM	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.0047	U	0.0047	0.014
CHLOROFORM	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.0061	U	0.0061	0.018

TABLE A-2

Database Output of Soil Samples at AVMA Retained After Evaluation [a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
CHLOROFORM	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.0059	U		
CHLOROFORM	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.0064	U	0.0064	0.019
CHLOROFORM	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.0036	U	0.0036	0.011
CHLOROFORM	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.0023	U	0.0023	0.007
CHLOROFORM	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.0023	U		
CHLOROFORM	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.0022	U	0.0022	0.0066
CHLOROFORM	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.0037	U	0.0037	0.011
CHLOROFORM	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.0036	U	0.0036	0.011
CHLOROFORM	VOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8260B	01/23/2001	0.00023	U	0.00023	0.00045
CHLOROFORM	VOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8260B	01/25/2001	0.00027	U		
CHLOROMETHANE	VOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8260B	08/21/2002	0.003	U		
CHLOROMETHANE	VOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8260B	05/12/2003	0.0055	U	0.0055	0.017
CHLOROMETHANE	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8260B	07/22/2002	0.0093	U	0.0093	0.028
CHLOROMETHANE	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.004	U	0.004	0.012
CHLOROMETHANE	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.0052	U	0.0052	0.016
CHLOROMETHANE	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.008	U	0.008	0.024
CHLOROMETHANE	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.0057	U	0.0057	0.017
CHLOROMETHANE	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.0055	U	0.0055	0.016
CHLOROMETHANE	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.0071	U	0.0071	0.021
CHLOROMETHANE	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.0068	U		
CHLOROMETHANE	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.0074	U	0.0074	0.022
CHLOROMETHANE	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.0042	U	0.0042	0.013
CHLOROMETHANE	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.0027	U	0.0027	0.0081
CHLOROMETHANE	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.0027	UJ		
CHLOROMETHANE	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.0026	U	0.0026	0.0077
CHLOROMETHANE	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.0043	U	0.0043	0.013
CHLOROMETHANE	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.0042	U	0.0042	0.013
CHLOROMETHANE	VOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8260B	01/23/2001	0.00023	U	0.00023	0.00045
CHLOROMETHANE	VOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8260B	01/25/2001	0.00027	U		
CHROMIUM	METAL	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW7191	08/21/2002	32	=		
CHROMIUM	METAL	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW6010B	07/22/2002	34	=	0.32	2
CHROMIUM	METAL	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW6010B	07/22/2002	26	=	0.27	1.7
CHROMIUM	METAL	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW6010B	07/22/2002	38	=	0.3	1.9
CHROMIUM	METAL	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW6010B	07/22/2002	36	=	0.27	1.7
CHROMIUM	METAL	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW6010B	07/23/2002	37	=	0.33	2.1
CHROMIUM	METAL	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW6010B	07/23/2002	33	=	0.24	1.6
CHROMIUM	METAL	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW6010B	07/24/2002	42	=	0.31	2
CHROMIUM	METAL	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW6010B	07/24/2002	32	=		
CHROMIUM	METAL	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW6010B	07/24/2002	37	=	0.3	1.9
CHROMIUM	METAL	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW6010B	07/24/2002	28	=	0.19	1.2
CHROMIUM	METAL	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW7191	08/20/2002	39.5	=	0.211	1.11
CHROMIUM	METAL	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW7191	08/20/2002	51	=	0.192	1.01
CHROMIUM	METAL	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW7191	08/20/2002	46	=		
CHROMIUM	METAL	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW7191	08/20/2002	40	=	0.192	1.01
CHROMIUM	METAL	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW7191	08/22/2002	40	=	0.2	1.1
CHROMIUM	METAL	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW7191	08/21/2002	39	=	0.16	0.85
CHROMIUM	METAL	Unknown	00FRAW10SL	AP-4146	4.5-6	SW6010	01/23/2001	37	=	0.11	1.9
CHROMIUM	METAL	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW6010	01/25/2001	40.5	=		
CHRYSENE	SVOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8270C	08/21/2002	0.038	U		
CHRYSENE	SVOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	PAHSIM	05/12/2003	0.000262	U	0.000262	0.00176
CHRYSENE	SVOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8270C	07/22/2002	1.3	=	0.041	0.19

TABLE A-2

Database Output of Soil Samples at AVMA Retained After Evaluation [a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
CHRYSENE	SVOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8270C	07/22/2002	0.092	J	0.037	0.17
CHRYSENE	SVOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8270C	07/22/2002	0.19	=	0.037	0.17
CHRYSENE	SVOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8270C	07/22/2002	0.086	U	0.086	0.4
CHRYSENE	SVOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8270C	07/23/2002	0.2	=	0.038	0.18
CHRYSENE	SVOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8270C	07/23/2002	0.085	J	0.04	0.19
CHRYSENE	SVOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8270C	07/24/2002	0.038	U	0.038	0.18
CHRYSENE	SVOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8270C	07/24/2002	0.037	U		
CHRYSENE	SVOC	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8270C	07/24/2002	0.037	U	0.037	0.17
CHRYSENE	SVOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8270C	07/24/2002	0.036	U	0.036	0.17
CHRYSENE	SVOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8270C	08/20/2002	0.044	U	0.044	0.21
CHRYSENE	SVOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8270C	08/20/2002	0.037	U	0.037	0.17
CHRYSENE	SVOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8270C	08/20/2002	0.037	U		
CHRYSENE	SVOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8270C	08/20/2002	0.037	U	0.037	0.17
CHRYSENE	SVOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8270C	08/22/2002	1	=	0.21	0.99
CHRYSENE	SVOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8270C	08/21/2002	0.037	U	0.037	0.17
CHRYSENE	SVOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8270C	01/23/2001	24	CJ	0.0029	0.007
CHRYSENE	SVOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8270C	01/25/2001	0.118	=		
cis-1,2-DICHLOROETHYLENE	VOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8260B	08/21/2002	0.0026	U		
cis-1,2-DICHLOROETHYLENE	VOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8260B	05/12/2003	0.0057	U	0.0057	0.017
cis-1,2-DICHLOROETHYLENE	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8260B	07/22/2002	0.008	U	0.008	0.024
cis-1,2-DICHLOROETHYLENE	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.0034	U	0.0034	0.01
cis-1,2-DICHLOROETHYLENE	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.0045	U	0.0045	0.013
cis-1,2-DICHLOROETHYLENE	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.0069	U	0.0069	0.021
cis-1,2-DICHLOROETHYLENE	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.0049	U	0.0049	0.015
cis-1,2-DICHLOROETHYLENE	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.0047	U	0.0047	0.014
cis-1,2-DICHLOROETHYLENE	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.0061	U	0.0061	0.018
cis-1,2-DICHLOROETHYLENE	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.0059	U		
cis-1,2-DICHLOROETHYLENE	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.0064	U	0.0064	0.019
cis-1,2-DICHLOROETHYLENE	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.0036	U	0.0036	0.011
cis-1,2-DICHLOROETHYLENE	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.0023	U	0.0023	0.007
cis-1,2-DICHLOROETHYLENE	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.0023	U		
cis-1,2-DICHLOROETHYLENE	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.0022	U	0.0022	0.0066
cis-1,2-DICHLOROETHYLENE	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.0037	U	0.0037	0.011
cis-1,2-DICHLOROETHYLENE	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.0036	U	0.0036	0.011
cis-1,2-DICHLOROETHYLENE	VOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8260B	01/23/2001	0.00023	U	0.00023	0.00045
cis-1,2-DICHLOROETHYLENE	VOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8260B	01/25/2001	0.00027	U		
cis-1,3-DICHLOROPROPENE	VOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8260B	08/21/2002	0.00078	U		
cis-1,3-DICHLOROPROPENE	VOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8260B	05/12/2003	0.0031	U	0.0031	0.0093
cis-1,3-DICHLOROPROPENE	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8260B	07/22/2002	0.0024	U	0.0024	0.016
cis-1,3-DICHLOROPROPENE	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.001	U	0.001	0.0069
cis-1,3-DICHLOROPROPENE	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.0014	U	0.0014	0.009
cis-1,3-DICHLOROPROPENE	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.0021	U	0.0021	0.014
cis-1,3-DICHLOROPROPENE	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.0015	U	0.0015	0.0098
cis-1,3-DICHLOROPROPENE	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.0014	U	0.0014	0.0094
cis-1,3-DICHLOROPROPENE	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.0018	U	0.0018	0.012
cis-1,3-DICHLOROPROPENE	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.0018	U		
cis-1,3-DICHLOROPROPENE	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.0019	U	0.0019	0.013
cis-1,3-DICHLOROPROPENE	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.0011	U	0.0011	0.0072
cis-1,3-DICHLOROPROPENE	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.00071	U	0.00071	0.0047
cis-1,3-DICHLOROPROPENE	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.0007	U		
cis-1,3-DICHLOROPROPENE	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.00067	U	0.00067	0.0044

TABLE A-2

Database Output of Soil Samples at AVMA Retained After Evaluation [a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
cis-1,3-DICHLOROPROPENE	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.0011	U	0.0011	0.0075
cis-1,3-DICHLOROPROPENE	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.0011	U	0.0011	0.0072
cis-1,3-DICHLOROPROPENE	VOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8260B	01/23/2001	0.00023	U	0.00023	0.00045
cis-1,3-DICHLOROPROPENE	VOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8260B	01/25/2001	0.00027	U		
COBALT	METAL	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW6010B	08/21/2002	12.5	=		
COBALT	METAL	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW6010B	07/22/2002	12	=	0.43	3
COBALT	METAL	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW6010B	07/22/2002	12	=	0.36	2.6
COBALT	METAL	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW6010B	07/22/2002	12	=	0.4	2.9
COBALT	METAL	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW6010B	07/22/2002	12	=	0.36	2.6
COBALT	METAL	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW6010B	07/23/2002	11	=	0.45	3.2
COBALT	METAL	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW6010B	07/23/2002	11	=	0.33	2.3
COBALT	METAL	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW6010B	07/24/2002	13	=	0.41	3
COBALT	METAL	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW6010B	07/24/2002	11.35	=		
COBALT	METAL	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW6010B	07/24/2002	14	=	0.41	2.9
COBALT	METAL	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW6010B	07/24/2002	11	=	0.26	1.8
COBALT	METAL	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW6010B	08/20/2002	14.6	=	0.494	3.53
COBALT	METAL	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW6010B	08/20/2002	10.9	=	0.267	1.9
COBALT	METAL	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW6010B	08/20/2002	12.5	=		
COBALT	METAL	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW6010B	08/20/2002	11.7	=	0.399	2.85
COBALT	METAL	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW6010B	08/22/2002	15	=	0.35	2.5
COBALT	METAL	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW6010B	08/21/2002	12	=	0.38	2.7
COPPER	METAL	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW6010B	08/21/2002	30	=		
COPPER	METAL	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW6010B	07/22/2002	25	=	0.19	0.61
COPPER	METAL	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW6010B	07/22/2002	23	=	0.16	0.52
COPPER	METAL	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW6010B	07/22/2002	29	=	0.18	0.57
COPPER	METAL	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW6010B	07/22/2002	25	=	0.16	0.52
COPPER	METAL	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW6010B	07/23/2002	23	J	0.2	0.64
COPPER	METAL	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW6010B	07/23/2002	23	J	0.15	0.47
COPPER	METAL	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW6010B	07/24/2002	27	=	0.19	0.59
COPPER	METAL	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW6010B	07/24/2002	26.5	=		
COPPER	METAL	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW6010B	07/24/2002	32	=	0.18	0.58
COPPER	METAL	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW6010B	07/24/2002	27	=	0.12	0.37
COPPER	METAL	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW6010B	08/20/2002	25.3	=	0.223	0.705
COPPER	METAL	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW6010B	08/20/2002	29.9	=	0.121	0.381
COPPER	METAL	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW6010B	08/20/2002	31.8	=		
COPPER	METAL	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW6010B	08/20/2002	32.7	=	0.18	0.57
COPPER	METAL	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW6010B	08/22/2002	26	=	0.16	0.5
COPPER	METAL	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW6010B	08/21/2002	31	=	0.17	0.54
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	PEST/PCB	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8081A	08/21/2002	0.0004	U		
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	PEST/PCB	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8081A	07/22/2002	0.0005	U	0.0005	0.0037
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	PEST/PCB	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8081A	07/22/2002	0.00044	U	0.00044	0.0033
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	PEST/PCB	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8081A	07/22/2002	0.00045	U	0.00045	0.0034
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	PEST/PCB	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8081A	07/22/2002	0.00052	U	0.00052	0.0039
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	PEST/PCB	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8081A	07/23/2002	0.00086	J	0.00047	0.0035
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	PEST/PCB	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8081A	07/23/2002	0.00048	UJ	0.00048	0.0036
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	PEST/PCB	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8081A	07/24/2002	0.000467	U	0.000467	0.00346
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	PEST/PCB	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8081A	07/24/2002	0.000447	U		
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	PEST/PCB	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8081A	07/24/2002	0.000444	U	0.000444	0.00329
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	PEST/PCB	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8081A	07/24/2002	0.00044	U	0.00044	0.00326
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	PEST/PCB	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8081A	08/20/2002	0.000422	U	0.000422	0.0011
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	PEST/PCB	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8081A	08/20/2002	0.000382	U	0.000382	0.000996

TABLE A-2

Database Output of Soil Samples at AVMA Retained After Evaluation [a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	PEST/PCB	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8081A	08/20/2002	0.000361	U		
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	PEST/PCB	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8081A	08/20/2002	0.000381	U	0.000381	0.000992
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	PEST/PCB	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8081A	08/22/2002	0.00748	U	0.00748	0.0195
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	PEST/PCB	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8081A	08/21/2002	0.000369	U	0.000369	0.000962
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8081A	01/23/2001	0.00014	U	0.00014	0.0011
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	PEST/PCB	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8081A	01/25/2001	0.00014	U		
DIBENZ(a,h)ANTHRACENE	SVOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8270C	08/21/2002	0.043	U		
DIBENZ(a,h)ANTHRACENE	SVOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	PAHSIM	05/12/2003	0.000341	U	0.000341	0.00176
DIBENZ(a,h)ANTHRACENE	SVOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8270C	07/22/2002	0.18	J	0.046	0.19
DIBENZ(a,h)ANTHRACENE	SVOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8270C	07/22/2002	0.041	U	0.041	0.17
DIBENZ(a,h)ANTHRACENE	SVOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8270C	07/22/2002	0.042	U	0.042	0.17
DIBENZ(a,h)ANTHRACENE	SVOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8270C	07/22/2002	0.097	U	0.097	0.4
DIBENZ(a,h)ANTHRACENE	SVOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8270C	07/23/2002	0.043	U	0.043	0.18
DIBENZ(a,h)ANTHRACENE	SVOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8270C	07/23/2002	0.045	U	0.045	0.19
DIBENZ(a,h)ANTHRACENE	SVOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8270C	07/24/2002	0.043	U	0.043	0.18
DIBENZ(a,h)ANTHRACENE	SVOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8270C	07/24/2002	0.042	U		
DIBENZ(a,h)ANTHRACENE	SVOC	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8270C	07/24/2002	0.041	U	0.041	0.17
DIBENZ(a,h)ANTHRACENE	SVOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8270C	07/24/2002	0.041	U	0.041	0.17
DIBENZ(a,h)ANTHRACENE	SVOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8270C	08/20/2002	0.05	U	0.05	0.21
DIBENZ(a,h)ANTHRACENE	SVOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8270C	08/20/2002	0.041	U	0.041	0.17
DIBENZ(a,h)ANTHRACENE	SVOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8270C	08/20/2002	0.042	U		
DIBENZ(a,h)ANTHRACENE	SVOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8270C	08/20/2002	0.042	U	0.042	0.17
DIBENZ(a,h)ANTHRACENE	SVOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8270C	08/22/2002	0.24	U	0.24	0.99
DIBENZ(a,h)ANTHRACENE	SVOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8270C	08/21/2002	0.041	U	0.041	0.17
DIBENZ(a,h)ANTHRACENE	SVOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8270C	01/23/2001	0.0016	U	0.0016	0.007
DIBENZ(a,h)ANTHRACENE	SVOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8270C	01/25/2001	0.0017	U		
DIBENZOFURAN	SVOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8270C	08/21/2002	0.038	U		
DIBENZOFURAN	SVOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8270C	05/12/2003	0.028	U	0.028	0.17
DIBENZOFURAN	SVOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8270C	07/22/2002	0.77	=	0.041	0.19
DIBENZOFURAN	SVOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8270C	07/22/2002	0.037	U	0.037	0.17
DIBENZOFURAN	SVOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8270C	07/22/2002	0.037	U	0.037	0.17
DIBENZOFURAN	SVOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8270C	07/22/2002	0.086	U	0.086	0.4
DIBENZOFURAN	SVOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8270C	07/23/2002	0.038	U	0.038	0.18
DIBENZOFURAN	SVOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8270C	07/23/2002	0.086	J	0.04	0.19
DIBENZOFURAN	SVOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8270C	07/24/2002	0.038	U	0.038	0.18
DIBENZOFURAN	SVOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8270C	07/24/2002	0.037	U		
DIBENZOFURAN	SVOC	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8270C	07/24/2002	0.037	U	0.037	0.17
DIBENZOFURAN	SVOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8270C	07/24/2002	0.036	U	0.036	0.17
DIBENZOFURAN	SVOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8270C	08/20/2002	0.044	U	0.044	0.21
DIBENZOFURAN	SVOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8270C	08/20/2002	0.037	U	0.037	0.17
DIBENZOFURAN	SVOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8270C	08/20/2002	0.037	U		
DIBENZOFURAN	SVOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8270C	08/20/2002	0.037	U	0.037	0.17
DIBENZOFURAN	SVOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8270C	08/22/2002	0.21	U	0.21	0.99
DIBENZOFURAN	SVOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8270C	08/21/2002	0.037	U	0.037	0.17
DIBENZOFURAN	SVOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8270C	01/23/2001	1.3	=	0.0071	0.014
DIBENZOFURAN	SVOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8270C	01/25/2001	0.017	D		
DIBROMOCHLOROMETHANE	VOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8260B	08/21/2002	0.0033	U		
DIBROMOCHLOROMETHANE	VOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8260B	05/12/2003	0.0024	U	0.0024	0.0079
DIBROMOCHLOROMETHANE	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8260B	07/22/2002	0.01	U	0.01	0.031
DIBROMOCHLOROMETHANE	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.0044	U	0.0044	0.013
DIBROMOCHLOROMETHANE	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.0057	U	0.0057	0.017

TABLE A-2

Database Output of Soil Samples at AVMA Retained After Evaluation [a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
DIBROMOCHLOROMETHANE	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.0088	U	0.0088	0.026
DIBROMOCHLOROMETHANE	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.0063	U	0.0063	0.019
DIBROMOCHLOROMETHANE	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.006	U	0.006	0.018
DIBROMOCHLOROMETHANE	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.0078	U	0.0078	0.023
DIBROMOCHLOROMETHANE	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.0075	U		
DIBROMOCHLOROMETHANE	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.0081	U	0.0081	0.024
DIBROMOCHLOROMETHANE	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.0046	U	0.0046	0.014
DIBROMOCHLOROMETHANE	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.003	U	0.003	0.009
DIBROMOCHLOROMETHANE	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.0029	U		
DIBROMOCHLOROMETHANE	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.0028	U	0.0028	0.0084
DIBROMOCHLOROMETHANE	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.0048	U	0.0048	0.014
DIBROMOCHLOROMETHANE	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.0046	U	0.0046	0.014
DIBROMOCHLOROMETHANE	VOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8260B	01/23/2001	0.00023	U	0.00023	0.00045
DIBROMOCHLOROMETHANE	VOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8260B	01/25/2001	0.00027	U		
DIBROMOMETHANE	VOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8260B	08/21/2002	0.0022	U		
DIBROMOMETHANE	VOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8260B	05/12/2003	0.0072	U	0.0072	0.022
DIBROMOMETHANE	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8260B	07/22/2002	0.0068	U	0.0068	0.02
DIBROMOMETHANE	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.0029	U	0.0029	0.0086
DIBROMOMETHANE	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.0038	U	0.0038	0.011
DIBROMOMETHANE	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.0058	U	0.0058	0.017
DIBROMOMETHANE	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.0041	U	0.0041	0.012
DIBROMOMETHANE	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.004	U	0.004	0.012
DIBROMOMETHANE	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.0051	U	0.0051	0.015
DIBROMOMETHANE	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.0049	U		
DIBROMOMETHANE	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.0053	U	0.0053	0.016
DIBROMOMETHANE	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.003	U	0.003	0.0091
DIBROMOMETHANE	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.002	U	0.002	0.0059
DIBROMOMETHANE	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.0019	UJ		
DIBROMOMETHANE	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.0018	U	0.0018	0.0055
DIBROMOMETHANE	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.0031	U	0.0031	0.0094
DIBROMOMETHANE	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.003	U	0.003	0.0091
DIBROMOMETHANE	VOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8260B	01/23/2001	0.00023	U	0.00023	0.00045
DIBROMOMETHANE	VOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8260B	01/25/2001	0.00027	U		
DICHLORODIFLUOROMETHANE	VOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8260B	08/21/2002	0.006	U		
DICHLORODIFLUOROMETHANE	VOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8260B	05/12/2003	0.003	UJ	0.003	0.0089
DICHLORODIFLUOROMETHANE	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8260B	07/22/2002	0.019	U	0.019	0.057
DICHLORODIFLUOROMETHANE	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.0081	U	0.0081	0.024
DICHLORODIFLUOROMETHANE	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.011	U	0.011	0.032
DICHLORODIFLUOROMETHANE	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.016	U	0.016	0.049
DICHLORODIFLUOROMETHANE	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.012	UJ	0.012	0.035
DICHLORODIFLUOROMETHANE	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.011	UJ	0.011	0.033
DICHLORODIFLUOROMETHANE	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.014	UJ	0.014	0.043
DICHLORODIFLUOROMETHANE	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.014	UJ		
DICHLORODIFLUOROMETHANE	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.015	UJ	0.015	0.045
DICHLORODIFLUOROMETHANE	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.0085	U	0.0085	0.026
DICHLORODIFLUOROMETHANE	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.0055	U	0.0055	0.017
DICHLORODIFLUOROMETHANE	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.0054	U		
DICHLORODIFLUOROMETHANE	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.0052	U	0.0052	0.016
DICHLORODIFLUOROMETHANE	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.0088	U	0.0088	0.026
DICHLORODIFLUOROMETHANE	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.0085	U	0.0085	0.026
DICHLORODIFLUOROMETHANE	VOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8260B	01/23/2001	0.00023	U	0.00023	0.00045

TABLE A-2

Database Output of Soil Samples at AVMA Retained After Evaluation [a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
DICHLORODIFLUOROMETHANE	VOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8260B	01/25/2001	0.00027	U		
DIELDRIN	PEST/PCB	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8081A	08/21/2002	0.000342	U		
DIELDRIN	PEST/PCB	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8081A	07/22/2002	0.0003	U	0.0003	0.0023
DIELDRIN	PEST/PCB	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8081A	07/22/2002	0.00066	J	0.00027	0.0021
DIELDRIN	PEST/PCB	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8081A	07/22/2002	0.00028	U	0.00028	0.0021
DIELDRIN	PEST/PCB	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8081A	07/22/2002	0.0021	J	0.00032	0.0024
DIELDRIN	PEST/PCB	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8081A	07/23/2002	0.00036	J	0.00028	0.0022
DIELDRIN	PEST/PCB	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8081A	07/23/2002	0.0003	U	0.0003	0.0022
DIELDRIN	PEST/PCB	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8081A	07/24/2002	0.000285	U	0.000285	0.00216
DIELDRIN	PEST/PCB	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8081A	07/24/2002	0.000273	U		
DIELDRIN	PEST/PCB	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8081A	07/24/2002	0.000272	U	0.000272	0.00206
DIELDRIN	PEST/PCB	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8081A	07/24/2002	0.000269	U	0.000269	0.00204
DIELDRIN	PEST/PCB	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8081A	08/20/2002	0.00036	U	0.00036	0.0022
DIELDRIN	PEST/PCB	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8081A	08/20/2002	0.000327	U	0.000327	0.00199
DIELDRIN	PEST/PCB	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8081A	08/20/2002	0.000308	U		
DIELDRIN	PEST/PCB	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8081A	08/20/2002	0.000325	U	0.000325	0.00198
DIELDRIN	PEST/PCB	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8081A	08/22/2002	0.00639	U	0.00639	0.039
DIELDRIN	PEST/PCB	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8081A	08/21/2002	0.000316	U	0.000316	0.00192
DIELDRIN	PEST/PCB	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8081A	01/23/2001	0.00026	U	0.00026	0.0021
DIELDRIN	PEST/PCB	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8081A	01/25/2001	0.00025	U		
DIESEL RANGE ORGANICS	TPH	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	AK102	08/21/2002	29.1	D		
DIESEL RANGE ORGANICS	TPH	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	AK102	05/12/2003	3.76	J	0.639	4.13
DIESEL RANGE ORGANICS	TPH	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	AK102	07/22/2002	20	=	2.8	18
DIESEL RANGE ORGANICS	TPH	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	AK102	07/22/2002	52	=	1.3	8.2
DIESEL RANGE ORGANICS	TPH	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	AK102	07/22/2002	370	=	39	250
DIESEL RANGE ORGANICS	TPH	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	AK102	07/22/2002	82	=	0.75	4.8
DIESEL RANGE ORGANICS	TPH	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	AK102	07/23/2002	21	=	0.64	4.2
DIESEL RANGE ORGANICS	TPH	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	AK102	07/23/2002	31	=	0.75	4.8
DIESEL RANGE ORGANICS	TPH	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	AK102	07/24/2002	7.8	=	0.65	4.2
DIESEL RANGE ORGANICS	TPH	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	AK102	07/24/2002	1.45	JB		
DIESEL RANGE ORGANICS	TPH	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	AK102	07/24/2002	0.78	JB	0.62	4
DIESEL RANGE ORGANICS	TPH	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	AK102	07/24/2002	0.62	U	0.62	4
DIESEL RANGE ORGANICS	TPH	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	AK102	08/20/2002	5.4	J	0.78	5.1
DIESEL RANGE ORGANICS	TPH	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	AK102	08/20/2002	2	JB	0.6	3.9
DIESEL RANGE ORGANICS	TPH	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	AK102	08/20/2002	2.2	JB		
DIESEL RANGE ORGANICS	TPH	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	AK102	08/20/2002	1.5	JB	0.64	4.2
DIESEL RANGE ORGANICS	TPH	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	AK102	08/22/2002	3800	=	60	390
DIESEL RANGE ORGANICS	TPH	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	AK102	08/21/2002	3.3	J	0.64	4.2
DIESEL RANGE ORGANICS	TPH	Unknown	00FRAW10SL	AP-4146	4.5-6	AK102	01/23/2001	250	BI	18	36
DIESEL RANGE ORGANICS	TPH	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	AK102	01/25/2001	270	BI,CI		
DIETHYL PHTHALATE	SVOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8270C	08/21/2002	0.038	U		
DIETHYL PHTHALATE	SVOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8270C	05/12/2003	0.023	U	0.023	0.17
DIETHYL PHTHALATE	SVOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8270C	07/22/2002	0.041	U	0.041	0.19
DIETHYL PHTHALATE	SVOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8270C	07/22/2002	0.037	U	0.037	0.17
DIETHYL PHTHALATE	SVOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8270C	07/22/2002	0.037	U	0.037	0.17
DIETHYL PHTHALATE	SVOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8270C	07/22/2002	0.086	U	0.086	0.4
DIETHYL PHTHALATE	SVOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8270C	07/23/2002	0.038	U	0.038	0.18
DIETHYL PHTHALATE	SVOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8270C	07/23/2002	0.04	U	0.04	0.19
DIETHYL PHTHALATE	SVOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8270C	07/24/2002	0.038	U	0.038	0.18
DIETHYL PHTHALATE	SVOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8270C	07/24/2002	0.037	U		
DIETHYL PHTHALATE	SVOC	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8270C	07/24/2002	0.037	U	0.037	0.17

TABLE A-2

Database Output of Soil Samples at AVMA Retained After Evaluation [a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
DIETHYL PHTHALATE	SVOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8270C	07/24/2002	0.036	U	0.036	0.17
DIETHYL PHTHALATE	SVOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8270C	08/20/2002	0.044	U	0.044	0.21
DIETHYL PHTHALATE	SVOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8270C	08/20/2002	0.037	U	0.037	0.17
DIETHYL PHTHALATE	SVOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8270C	08/20/2002	0.037	U		
DIETHYL PHTHALATE	SVOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8270C	08/20/2002	0.037	U	0.037	0.17
DIETHYL PHTHALATE	SVOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8270C	08/22/2002	0.21	U	0.21	0.99
DIETHYL PHTHALATE	SVOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8270C	08/21/2002	0.037	U	0.037	0.17
DIETHYL PHTHALATE	SVOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8270C	01/23/2001	0.0075	U	0.0075	0.035
DIETHYL PHTHALATE	SVOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8270C	01/25/2001	0.0076	U		
DIMETHYL PHTHALATE	SVOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8270C	08/21/2002	0.038	U		
DIMETHYL PHTHALATE	SVOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8270C	05/12/2003	0.028	U	0.028	0.17
DIMETHYL PHTHALATE	SVOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8270C	07/22/2002	0.041	U	0.041	0.19
DIMETHYL PHTHALATE	SVOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8270C	07/22/2002	0.037	U	0.037	0.17
DIMETHYL PHTHALATE	SVOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8270C	07/22/2002	0.037	U	0.037	0.17
DIMETHYL PHTHALATE	SVOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8270C	07/22/2002	0.086	U	0.086	0.4
DIMETHYL PHTHALATE	SVOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8270C	07/23/2002	0.038	U	0.038	0.18
DIMETHYL PHTHALATE	SVOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8270C	07/23/2002	0.04	U	0.04	0.19
DIMETHYL PHTHALATE	SVOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8270C	07/24/2002	0.038	U	0.038	0.18
DIMETHYL PHTHALATE	SVOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8270C	07/24/2002	0.037	U		
DIMETHYL PHTHALATE	SVOC	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8270C	07/24/2002	0.037	U	0.037	0.17
DIMETHYL PHTHALATE	SVOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8270C	07/24/2002	0.036	U	0.036	0.17
DIMETHYL PHTHALATE	SVOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8270C	08/20/2002	0.044	U	0.044	0.21
DIMETHYL PHTHALATE	SVOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8270C	08/20/2002	0.037	U	0.037	0.17
DIMETHYL PHTHALATE	SVOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8270C	08/20/2002	0.037	U		
DIMETHYL PHTHALATE	SVOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8270C	08/20/2002	0.037	U	0.037	0.17
DIMETHYL PHTHALATE	SVOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8270C	08/22/2002	0.21	U	0.21	0.99
DIMETHYL PHTHALATE	SVOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8270C	08/21/2002	0.037	U	0.037	0.17
DIMETHYL PHTHALATE	SVOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8270C	01/23/2001	0.011	U	0.011	0.035
DIMETHYL PHTHALATE	SVOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8270C	01/25/2001	0.011	U		
DI-n-BUTYL PHTHALATE	SVOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8270C	08/21/2002	0.415	JB		
DI-n-BUTYL PHTHALATE	SVOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8270C	05/12/2003	0.097	U	0.044	0.17
DI-n-BUTYL PHTHALATE	SVOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8270C	07/22/2002	0.063	JB	0.049	0.19
DI-n-BUTYL PHTHALATE	SVOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8270C	07/22/2002	0.075	JB	0.043	0.17
DI-n-BUTYL PHTHALATE	SVOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8270C	07/22/2002	0.044	U	0.044	0.17
DI-n-BUTYL PHTHALATE	SVOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8270C	07/22/2002	0.1	U	0.1	0.4
DI-n-BUTYL PHTHALATE	SVOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8270C	07/23/2002	0.46	B	0.045	0.18
DI-n-BUTYL PHTHALATE	SVOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8270C	07/23/2002	0.77	B	0.047	0.19
DI-n-BUTYL PHTHALATE	SVOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8270C	07/24/2002	0.15	JB	0.046	0.18
DI-n-BUTYL PHTHALATE	SVOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8270C	07/24/2002	0.139	D		
DI-n-BUTYL PHTHALATE	SVOC	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8270C	07/24/2002	0.14	JB	0.044	0.17
DI-n-BUTYL PHTHALATE	SVOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8270C	07/24/2002	0.31	B	0.043	0.17
DI-n-BUTYL PHTHALATE	SVOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8270C	08/20/2002	0.35	JB	0.052	0.21
DI-n-BUTYL PHTHALATE	SVOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8270C	08/20/2002	0.57	JB	0.044	0.17
DI-n-BUTYL PHTHALATE	SVOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8270C	08/20/2002	0.495	JB		
DI-n-BUTYL PHTHALATE	SVOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8270C	08/20/2002	0.71	JB	0.044	0.17
DI-n-BUTYL PHTHALATE	SVOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8270C	08/22/2002	0.41	JB	0.25	0.99
DI-n-BUTYL PHTHALATE	SVOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8270C	08/21/2002	0.19	JB	0.044	0.17
DI-n-BUTYL PHTHALATE	SVOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8270C	01/23/2001	0.044	U	0.044	0.07
DI-n-BUTYL PHTHALATE	SVOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8270C	01/25/2001	0.045	U		
DI-n-OCTYLPHTHALATE	SVOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8270C	08/21/2002	0.034	U		
DI-n-OCTYLPHTHALATE	SVOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8270C	05/12/2003	0.019	U	0.019	0.17

TABLE A-2

Database Output of Soil Samples at AVMA Retained After Evaluation [a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
DI-n-OCTYLPHTHALATE	SVOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8270C	07/22/2002	0.037	U	0.037	0.19
DI-n-OCTYLPHTHALATE	SVOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8270C	07/22/2002	0.033	U	0.033	0.17
DI-n-OCTYLPHTHALATE	SVOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8270C	07/22/2002	0.1	J	0.033	0.17
DI-n-OCTYLPHTHALATE	SVOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8270C	07/22/2002	0.077	U	0.077	0.4
DI-n-OCTYLPHTHALATE	SVOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8270C	07/23/2002	0.034	U	0.034	0.18
DI-n-OCTYLPHTHALATE	SVOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8270C	07/23/2002	0.035	U	0.035	0.19
DI-n-OCTYLPHTHALATE	SVOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8270C	07/24/2002	0.034	U	0.034	0.18
DI-n-OCTYLPHTHALATE	SVOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8270C	07/24/2002	0.033	U		
DI-n-OCTYLPHTHALATE	SVOC	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8270C	07/24/2002	0.033	U	0.033	0.17
DI-n-OCTYLPHTHALATE	SVOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8270C	07/24/2002	0.032	U	0.032	0.17
DI-n-OCTYLPHTHALATE	SVOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8270C	08/20/2002	0.039	U	0.039	0.21
DI-n-OCTYLPHTHALATE	SVOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8270C	08/20/2002	0.033	U	0.033	0.17
DI-n-OCTYLPHTHALATE	SVOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8270C	08/20/2002	0.033	U		
DI-n-OCTYLPHTHALATE	SVOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8270C	08/20/2002	0.033	U	0.033	0.17
DI-n-OCTYLPHTHALATE	SVOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8270C	08/22/2002	0.19	U	0.19	0.99
DI-n-OCTYLPHTHALATE	SVOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8270C	08/21/2002	0.033	U	0.033	0.17
DI-n-OCTYLPHTHALATE	SVOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8270C	01/23/2001	0.0084	U	0.0084	0.035
DI-n-OCTYLPHTHALATE	SVOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8270C	01/25/2001	0.0085	U		
DIPHENYLAMINE	SVOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8270C	08/21/2002	0.048	U		
DIPHENYLAMINE	SVOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8270C	08/22/2002	0.27	U	0.27	0.99
DIPHENYLAMINE	SVOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8270C	08/21/2002	0.046	U	0.046	0.17
ENDOSULFAN SULFATE	PEST/PCB	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8081A	08/21/2002	0.000379	U		
ENDOSULFAN SULFATE	PEST/PCB	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8081A	07/22/2002	0.00022	U	0.00022	0.0017
ENDOSULFAN SULFATE	PEST/PCB	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8081A	07/22/2002	0.00042	J	0.0002	0.0015
ENDOSULFAN SULFATE	PEST/PCB	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8081A	07/22/2002	0.0002	U	0.0002	0.0015
ENDOSULFAN SULFATE	PEST/PCB	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8081A	07/22/2002	0.0006	J	0.00023	0.0017
ENDOSULFAN SULFATE	PEST/PCB	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8081A	07/23/2002	0.00046	J	0.00021	0.0016
ENDOSULFAN SULFATE	PEST/PCB	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8081A	07/23/2002	0.00065	J	0.00021	0.0016
ENDOSULFAN SULFATE	PEST/PCB	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8081A	07/24/2002	0.000232	J	0.000207	0.00156
ENDOSULFAN SULFATE	PEST/PCB	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8081A	07/24/2002	0.000199	U		
ENDOSULFAN SULFATE	PEST/PCB	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8081A	07/24/2002	0.000198	U	0.000198	0.00148
ENDOSULFAN SULFATE	PEST/PCB	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8081A	07/24/2002	0.000196	U	0.000196	0.00147
ENDOSULFAN SULFATE	PEST/PCB	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8081A	08/20/2002	0.0004	U	0.0004	0.0022
ENDOSULFAN SULFATE	PEST/PCB	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8081A	08/20/2002	0.000362	U	0.000362	0.00199
ENDOSULFAN SULFATE	PEST/PCB	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8081A	08/20/2002	0.000342	U		
ENDOSULFAN SULFATE	PEST/PCB	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8081A	08/20/2002	0.000361	U	0.000361	0.00198
ENDOSULFAN SULFATE	PEST/PCB	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8081A	08/22/2002	0.00709	U	0.00709	0.039
ENDOSULFAN SULFATE	PEST/PCB	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8081A	08/21/2002	0.00035	U	0.00035	0.00192
ENDOSULFAN SULFATE	PEST/PCB	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8081A	01/23/2001	0.00031	U	0.00031	0.0021
ENDOSULFAN SULFATE	PEST/PCB	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8081A	01/25/2001	0.0003	U		
ENDRIN	PEST/PCB	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8081A	08/21/2002	0.000376	U		
ENDRIN	PEST/PCB	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8081A	07/22/2002	0.00068	U	0.00068	0.0051
ENDRIN	PEST/PCB	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8081A	07/22/2002	0.0019	J	0.00061	0.0045
ENDRIN	PEST/PCB	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8081A	07/22/2002	0.00062	U	0.00062	0.0046
ENDRIN	PEST/PCB	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8081A	07/22/2002	0.0012	J	0.00072	0.0053
ENDRIN	PEST/PCB	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8081A	07/23/2002	0.0022	J	0.00064	0.0047
ENDRIN	PEST/PCB	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8081A	07/23/2002	0.0025	J	0.00066	0.0049
ENDRIN	PEST/PCB	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8081A	07/24/2002	0.00064	U	0.00064	0.00475
ENDRIN	PEST/PCB	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8081A	07/24/2002	0.000613	U		
ENDRIN	PEST/PCB	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8081A	07/24/2002	0.000609	U	0.000609	0.00453
ENDRIN	PEST/PCB	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8081A	07/24/2002	0.000603	U	0.000603	0.00448

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Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
ENDRIN	PEST/PCB	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8081A	08/20/2002	0.000397	U	0.000397	0.0022
ENDRIN	PEST/PCB	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8081A	08/20/2002	0.000359	U	0.000359	0.00199
ENDRIN	PEST/PCB	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8081A	08/20/2002	0.000339	U		
ENDRIN	PEST/PCB	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8081A	08/20/2002	0.000358	U	0.000358	0.00198
ENDRIN	PEST/PCB	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8081A	08/22/2002	0.00703	U	0.00703	0.039
ENDRIN	PEST/PCB	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8081A	08/21/2002	0.000347	U	0.000347	0.00192
ENDRIN	PEST/PCB	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8081A	01/23/2001	0.00033	U	0.00033	0.0021
ENDRIN	PEST/PCB	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8081A	01/25/2001	0.00032	U		
ENDRIN ALDEHYDE	PEST/PCB	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8081A	08/21/2002	0.000425	U		
ENDRIN ALDEHYDE	PEST/PCB	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8081A	07/22/2002	0.0011	U	0.0011	0.0079
ENDRIN ALDEHYDE	PEST/PCB	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8081A	07/22/2002	0.00094	U	0.00094	0.0071
ENDRIN ALDEHYDE	PEST/PCB	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8081A	07/22/2002	0.00096	U	0.00096	0.0072
ENDRIN ALDEHYDE	PEST/PCB	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8081A	07/22/2002	0.0011	U	0.0011	0.0083
ENDRIN ALDEHYDE	PEST/PCB	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8081A	07/23/2002	0.00099	U	0.00099	0.0074
ENDRIN ALDEHYDE	PEST/PCB	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8081A	07/23/2002	0.001	U	0.001	0.0077
ENDRIN ALDEHYDE	PEST/PCB	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8081A	07/24/2002	0.00283	J	0.000994	0.00743
ENDRIN ALDEHYDE	PEST/PCB	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8081A	07/24/2002	0.001695	J		
ENDRIN ALDEHYDE	PEST/PCB	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8081A	07/24/2002	0.00149	J	0.000947	0.00708
ENDRIN ALDEHYDE	PEST/PCB	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8081A	07/24/2002	0.00128	J	0.000938	0.00701
ENDRIN ALDEHYDE	PEST/PCB	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8081A	08/20/2002	0.000448	U	0.000448	0.0022
ENDRIN ALDEHYDE	PEST/PCB	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8081A	08/20/2002	0.000406	U	0.000406	0.00199
ENDRIN ALDEHYDE	PEST/PCB	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8081A	08/20/2002	0.000383	U		
ENDRIN ALDEHYDE	PEST/PCB	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8081A	08/20/2002	0.000404	U	0.000404	0.00198
ENDRIN ALDEHYDE	PEST/PCB	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8081A	08/22/2002	0.00794	U	0.00794	0.039
ENDRIN ALDEHYDE	PEST/PCB	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8081A	08/21/2002	0.000392	U	0.000392	0.00192
ENDRIN ALDEHYDE	PEST/PCB	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8081A	01/23/2001	0.00039	U	0.00039	0.0021
ENDRIN ALDEHYDE	PEST/PCB	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8081A	01/25/2001	0.00038	U		
ENDRIN KETONE	PEST/PCB	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8081A	08/21/2002	0.000293	U		
ENDRIN KETONE	PEST/PCB	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8081A	07/22/2002	0.00026	U	0.00026	0.0014
ENDRIN KETONE	PEST/PCB	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8081A	07/22/2002	0.00039	J	0.00023	0.0012
ENDRIN KETONE	PEST/PCB	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8081A	07/22/2002	0.00032	J	0.00023	0.0013
ENDRIN KETONE	PEST/PCB	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8081A	07/22/2002	0.00027	U	0.00027	0.0015
ENDRIN KETONE	PEST/PCB	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8081A	07/23/2002	0.00024	U	0.00024	0.0013
ENDRIN KETONE	PEST/PCB	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8081A	07/23/2002	0.00025	U	0.00025	0.0013
ENDRIN KETONE	PEST/PCB	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8081A	07/24/2002	0.000242	U	0.000242	0.0013
ENDRIN KETONE	PEST/PCB	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8081A	07/24/2002	0.000232	U		
ENDRIN KETONE	PEST/PCB	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8081A	07/24/2002	0.00023	U	0.00023	0.00123
ENDRIN KETONE	PEST/PCB	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8081A	07/24/2002	0.000228	U	0.000228	0.00122
ENDRIN KETONE	PEST/PCB	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8081A	08/20/2002	0.000309	U	0.000309	0.0022
ENDRIN KETONE	PEST/PCB	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8081A	08/20/2002	0.00028	U	0.00028	0.00199
ENDRIN KETONE	PEST/PCB	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8081A	08/20/2002	0.000264	U		
ENDRIN KETONE	PEST/PCB	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8081A	08/20/2002	0.000279	U	0.000279	0.00198
ENDRIN KETONE	PEST/PCB	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8081A	08/22/2002	0.00547	U	0.00547	0.039
ENDRIN KETONE	PEST/PCB	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8081A	08/21/2002	0.00027	U	0.00027	0.00192
ENDRIN KETONE	PEST/PCB	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8081A	01/23/2001	0.0014	J,GC	0.00034	0.0021
ENDRIN KETONE	PEST/PCB	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8081A	01/25/2001	0.0019	J,GC		
ETHYLBENZENE	VOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8260B	08/21/2002	0.0019	U		
ETHYLBENZENE	VOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8021B	05/12/2003	0.002	U	0.002	0.019
ETHYLBENZENE	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8260B	07/22/2002	0.0061	U	0.0061	0.018
ETHYLBENZENE	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.0082	=	0.0026	0.0078
ETHYLBENZENE	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.0034	U	0.0034	0.01

TABLE A-2

Database Output of Soil Samples at AVMA Retained After Evaluation [a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
ETHYLBENZENE	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.0052	U	0.0052	0.016
ETHYLBENZENE	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.038	=	0.0037	0.011
ETHYLBENZENE	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.039	=	0.0036	0.011
ETHYLBENZENE	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.0046	U	0.0046	0.014
ETHYLBENZENE	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.014	J		
ETHYLBENZENE	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.0048	U	0.0048	0.015
ETHYLBENZENE	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.0027	U	0.0027	0.0082
ETHYLBENZENE	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.0018	U	0.0018	0.0053
ETHYLBENZENE	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.0017	U		
ETHYLBENZENE	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.0017	U	0.0017	0.005
ETHYLBENZENE	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.0028	U	0.0028	0.0085
ETHYLBENZENE	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.0027	U	0.0027	0.0082
ETHYLBENZENE	VOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8260B	01/23/2001	0.00023	U	0.00023	0.00045
ETHYLBENZENE	VOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8260B	01/25/2001	0.00027	U		
FLUORANTHENE	SVOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8270C	08/21/2002	0.043	U		
FLUORANTHENE	SVOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	PAHSIM	05/12/2003	0.000615	U	0.000615	0.00197
FLUORANTHENE	SVOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8270C	07/22/2002	2.1	=	0.046	0.19
FLUORANTHENE	SVOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8270C	07/22/2002	0.11	J	0.041	0.17
FLUORANTHENE	SVOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8270C	07/22/2002	0.26	=	0.042	0.17
FLUORANTHENE	SVOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8270C	07/22/2002	0.097	U	0.097	0.4
FLUORANTHENE	SVOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8270C	07/23/2002	0.14	J	0.043	0.18
FLUORANTHENE	SVOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8270C	07/23/2002	0.15	J	0.045	0.19
FLUORANTHENE	SVOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8270C	07/24/2002	0.043	U	0.043	0.18
FLUORANTHENE	SVOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8270C	07/24/2002	0.041	U		
FLUORANTHENE	SVOC	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8270C	07/24/2002	0.041	U	0.041	0.17
FLUORANTHENE	SVOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8270C	07/24/2002	0.041	U	0.041	0.17
FLUORANTHENE	SVOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8270C	08/20/2002	0.049	U	0.049	0.21
FLUORANTHENE	SVOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8270C	08/20/2002	0.041	U	0.041	0.17
FLUORANTHENE	SVOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8270C	08/20/2002	0.041	U		
FLUORANTHENE	SVOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8270C	08/20/2002	0.042	U	0.042	0.17
FLUORANTHENE	SVOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8270C	08/22/2002	0.24	U	0.24	0.99
FLUORANTHENE	SVOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8270C	08/21/2002	0.041	U	0.041	0.17
FLUORANTHENE	SVOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8270C	01/23/2001	5.1	CJ	0.0022	0.007
FLUORANTHENE	SVOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8270C	01/25/2001	0.066	=		
FLUORENE	SVOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8270C	08/21/2002	0.038	U		
FLUORENE	SVOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	PAHSIM	05/12/2003	0.000253	U	0.000253	0.00176
FLUORENE	SVOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8270C	07/22/2002	1.1	=	0.041	0.19
FLUORENE	SVOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8270C	07/22/2002	0.06	J	0.037	0.17
FLUORENE	SVOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8270C	07/22/2002	0.054	J	0.037	0.17
FLUORENE	SVOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8270C	07/22/2002	0.086	U	0.086	0.4
FLUORENE	SVOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8270C	07/23/2002	0.038	U	0.038	0.18
FLUORENE	SVOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8270C	07/23/2002	0.045	J	0.04	0.19
FLUORENE	SVOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8270C	07/24/2002	0.038	U	0.038	0.18
FLUORENE	SVOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8270C	07/24/2002	0.037	U		
FLUORENE	SVOC	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8270C	07/24/2002	0.037	U	0.037	0.17
FLUORENE	SVOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8270C	07/24/2002	0.036	U	0.036	0.17
FLUORENE	SVOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8270C	08/20/2002	0.044	U	0.044	0.21
FLUORENE	SVOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8270C	08/20/2002	0.037	U	0.037	0.17
FLUORENE	SVOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8270C	08/20/2002	0.037	U		
FLUORENE	SVOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8270C	08/20/2002	0.037	U	0.037	0.17
FLUORENE	SVOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8270C	08/22/2002	0.24	J	0.21	0.99

TABLE A-2

Database Output of Soil Samples at AVMA Retained After Evaluation [a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
FLUORENE	SVOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8270C	08/21/2002	0.037	U	0.037	0.17
FLUORENE	SVOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8270C	01/23/2001	2.9	CJ	0.0029	0.007
FLUORENE	SVOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8270C	01/25/2001	0.0325	=		
GAMMA BHC (LINDANE)	PEST/PCB	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8081A	08/21/2002	0.000398	U		
GAMMA BHC (LINDANE)	PEST/PCB	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8081A	07/22/2002	0.00079	U	0.00079	0.006
GAMMA BHC (LINDANE)	PEST/PCB	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8081A	07/22/2002	0.00071	U	0.00071	0.0053
GAMMA BHC (LINDANE)	PEST/PCB	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8081A	07/22/2002	0.00072	U	0.00072	0.0054
GAMMA BHC (LINDANE)	PEST/PCB	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8081A	07/22/2002	0.00083	U	0.00083	0.0063
GAMMA BHC (LINDANE)	PEST/PCB	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8081A	07/23/2002	0.00074	U	0.00074	0.0056
GAMMA BHC (LINDANE)	PEST/PCB	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8081A	07/23/2002	0.00077	U	0.00077	0.0058
GAMMA BHC (LINDANE)	PEST/PCB	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8081A	07/24/2002	0.000743	U	0.000743	0.00562
GAMMA BHC (LINDANE)	PEST/PCB	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8081A	07/24/2002	0.000712	U		
GAMMA BHC (LINDANE)	PEST/PCB	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8081A	07/24/2002	0.000708	U	0.000708	0.00535
GAMMA BHC (LINDANE)	PEST/PCB	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8081A	07/24/2002	0.000701	U	0.000701	0.0053
GAMMA BHC (LINDANE)	PEST/PCB	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8081A	08/20/2002	0.00042	U	0.00042	0.0011
GAMMA BHC (LINDANE)	PEST/PCB	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8081A	08/20/2002	0.000381	U	0.000381	0.000996
GAMMA BHC (LINDANE)	PEST/PCB	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8081A	08/20/2002	0.000359	U		
GAMMA BHC (LINDANE)	PEST/PCB	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8081A	08/20/2002	0.000379	U	0.000379	0.000992
GAMMA BHC (LINDANE)	PEST/PCB	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8081A	08/22/2002	0.00744	U	0.00744	0.0195
GAMMA BHC (LINDANE)	PEST/PCB	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8081A	08/21/2002	0.000368	U	0.000368	0.000962
GAMMA BHC (LINDANE)	PEST/PCB	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8081A	01/23/2001	0.0002	U	0.0002	0.0011
GAMMA BHC (LINDANE)	PEST/PCB	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8081A	01/25/2001	0.00019	U		
GAMMA-CHLORDANE	PEST/PCB	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8081A	08/21/2002	0.000423	U		
GAMMA-CHLORDANE	PEST/PCB	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8081A	07/22/2002	0.00052	U	0.00052	0.0039
GAMMA-CHLORDANE	PEST/PCB	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8081A	07/22/2002	0.00047	U	0.00047	0.0034
GAMMA-CHLORDANE	PEST/PCB	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8081A	07/22/2002	0.00048	U	0.00048	0.0035
GAMMA-CHLORDANE	PEST/PCB	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8081A	07/22/2002	0.00055	U	0.00055	0.0041
GAMMA-CHLORDANE	PEST/PCB	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8081A	07/23/2002	0.00049	U	0.00049	0.0036
GAMMA-CHLORDANE	PEST/PCB	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8081A	07/23/2002	0.00051	U	0.00051	0.0038
GAMMA-CHLORDANE	PEST/PCB	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8081A	07/24/2002	0.000493	U	0.000493	0.00363
GAMMA-CHLORDANE	PEST/PCB	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8081A	07/24/2002	0.000472	U		
GAMMA-CHLORDANE	PEST/PCB	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8081A	07/24/2002	0.000469	U	0.000469	0.00346
GAMMA-CHLORDANE	PEST/PCB	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8081A	07/24/2002	0.000465	U	0.000465	0.00342
GAMMA-CHLORDANE	PEST/PCB	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8081A	08/20/2002	0.000446	U	0.000446	0.0011
GAMMA-CHLORDANE	PEST/PCB	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8081A	08/20/2002	0.000404	U	0.000404	0.000996
GAMMA-CHLORDANE	PEST/PCB	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8081A	08/20/2002	0.000382	U		
GAMMA-CHLORDANE	PEST/PCB	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8081A	08/20/2002	0.000403	U	0.000403	0.000992
GAMMA-CHLORDANE	PEST/PCB	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8081A	08/22/2002	0.00791	U	0.00791	0.0195
GAMMA-CHLORDANE	PEST/PCB	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8081A	08/21/2002	0.000391	U	0.000391	0.000962
GASOLINE RANGE ORGANICS	TPH	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	AK101	08/21/2002	0.49	J		
GASOLINE RANGE ORGANICS	TPH	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	AK101	05/12/2003	0.6	UJ	0.6	4.3
GASOLINE RANGE ORGANICS	TPH	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	AK101	07/22/2002	0.4	U	0.4	2.8
GASOLINE RANGE ORGANICS	TPH	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	AK101	07/22/2002	0.33	J	0.21	1.5
GASOLINE RANGE ORGANICS	TPH	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	AK101	07/22/2002	0.43	J	0.34	2.4
GASOLINE RANGE ORGANICS	TPH	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	AK101	07/22/2002	0.37	U	0.37	2.7
GASOLINE RANGE ORGANICS	TPH	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	AK101	07/23/2002	1.3	J	0.6	4.3
GASOLINE RANGE ORGANICS	TPH	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	AK101	07/23/2002	3.1	=	0.44	3.1
GASOLINE RANGE ORGANICS	TPH	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	AK101	07/24/2002	0.47	U	0.47	3.4
GASOLINE RANGE ORGANICS	TPH	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	AK101	07/24/2002	0.32	U		
GASOLINE RANGE ORGANICS	TPH	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	AK101	07/24/2002	0.42	U	0.42	3
GASOLINE RANGE ORGANICS	TPH	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	AK101	07/24/2002	0.37	U	0.37	2.6

TABLE A-2

Database Output of Soil Samples at AVMA Retained After Evaluation [a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
GASOLINE RANGE ORGANICS	TPH	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	AK101	08/20/2002	0.33	J	0.32	2.3
GASOLINE RANGE ORGANICS	TPH	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	AK101	08/20/2002	0.28	J	0.2	1.5
GASOLINE RANGE ORGANICS	TPH	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	AK101	08/20/2002	0.34	J		
GASOLINE RANGE ORGANICS	TPH	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	AK101	08/20/2002	0.16	U	0.16	1.2
GASOLINE RANGE ORGANICS	TPH	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	AK101	08/22/2002	6	=	0.34	2.5
GASOLINE RANGE ORGANICS	TPH	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	AK101	08/21/2002	0.48	J	0.35	2.5
GASOLINE RANGE ORGANICS	TPH	Unknown	00FRAW10SL	AP-4146	4.5-6	AK101	01/23/2001	1.2	U	1.2	2.4
GASOLINE RANGE ORGANICS	TPH	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	AK101	01/25/2001	1.8	U		
HEPTACHLOR	PEST/PCB	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8081A	08/21/2002	0.000359	U		
HEPTACHLOR	PEST/PCB	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8081A	07/22/2002	0.0012	U	0.0012	0.009
HEPTACHLOR	PEST/PCB	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8081A	07/22/2002	0.0011	U	0.0011	0.008
HEPTACHLOR	PEST/PCB	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8081A	07/22/2002	0.0011	U	0.0011	0.0082
HEPTACHLOR	PEST/PCB	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8081A	07/22/2002	0.0013	U	0.0013	0.0095
HEPTACHLOR	PEST/PCB	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8081A	07/23/2002	0.0017	J	0.0011	0.0085
HEPTACHLOR	PEST/PCB	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8081A	07/23/2002	0.0012	U	0.0012	0.0088
HEPTACHLOR	PEST/PCB	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8081A	07/24/2002	0.00113	U	0.00113	0.00847
HEPTACHLOR	PEST/PCB	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8081A	07/24/2002	0.00108	U		
HEPTACHLOR	PEST/PCB	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8081A	07/24/2002	0.00108	U	0.00108	0.00807
HEPTACHLOR	PEST/PCB	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8081A	07/24/2002	0.00107	U	0.00107	0.00799
HEPTACHLOR	PEST/PCB	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8081A	08/20/2002	0.000378	U	0.000378	0.0011
HEPTACHLOR	PEST/PCB	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8081A	08/20/2002	0.000343	U	0.000343	0.000996
HEPTACHLOR	PEST/PCB	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8081A	08/20/2002	0.000324	U		
HEPTACHLOR	PEST/PCB	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8081A	08/20/2002	0.000342	U	0.000342	0.000992
HEPTACHLOR	PEST/PCB	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8081A	08/22/2002	0.00671	U	0.00671	0.0195
HEPTACHLOR	PEST/PCB	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8081A	08/21/2002	0.000331	U	0.000331	0.000962
HEPTACHLOR	PEST/PCB	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8081A	01/23/2001	0.00012	U	0.00012	0.0011
HEPTACHLOR	PEST/PCB	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8081A	01/25/2001	0.00011	U		
HEPTACHLOR EPOXIDE	PEST/PCB	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8081A	08/21/2002	0.000381	U		
HEPTACHLOR EPOXIDE	PEST/PCB	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8081A	07/22/2002	0.00068	U	0.00068	0.0051
HEPTACHLOR EPOXIDE	PEST/PCB	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8081A	07/22/2002	0.00061	U	0.00061	0.0045
HEPTACHLOR EPOXIDE	PEST/PCB	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8081A	07/22/2002	0.00062	U	0.00062	0.0046
HEPTACHLOR EPOXIDE	PEST/PCB	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8081A	07/22/2002	0.00072	U	0.00072	0.0053
HEPTACHLOR EPOXIDE	PEST/PCB	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8081A	07/23/2002	0.0025	J	0.00064	0.0047
HEPTACHLOR EPOXIDE	PEST/PCB	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8081A	07/23/2002	0.00066	U	0.00066	0.0049
HEPTACHLOR EPOXIDE	PEST/PCB	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8081A	07/24/2002	0.00064	U	0.00064	0.00475
HEPTACHLOR EPOXIDE	PEST/PCB	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8081A	07/24/2002	0.000613	U		
HEPTACHLOR EPOXIDE	PEST/PCB	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8081A	07/24/2002	0.000609	U	0.000609	0.00453
HEPTACHLOR EPOXIDE	PEST/PCB	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8081A	07/24/2002	0.000603	U	0.000603	0.00448
HEPTACHLOR EPOXIDE	PEST/PCB	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8081A	08/20/2002	0.000401	U	0.000401	0.0011
HEPTACHLOR EPOXIDE	PEST/PCB	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8081A	08/20/2002	0.000364	U	0.000364	0.000996
HEPTACHLOR EPOXIDE	PEST/PCB	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8081A	08/20/2002	0.000343	U		
HEPTACHLOR EPOXIDE	PEST/PCB	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8081A	08/20/2002	0.000362	U	0.000362	0.000992
HEPTACHLOR EPOXIDE	PEST/PCB	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8081A	08/22/2002	0.00712	U	0.00712	0.0195
HEPTACHLOR EPOXIDE	PEST/PCB	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8081A	08/21/2002	0.000352	U	0.000352	0.000962
HEPTACHLOR EPOXIDE	PEST/PCB	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8081A	01/23/2001	0.00019	U	0.00019	0.0011
HEPTACHLOR EPOXIDE	PEST/PCB	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8081A	01/25/2001	0.00018	U		
HEXACHLOROBENZENE	SVOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8270C	08/21/2002	0.038	U		
HEXACHLOROBENZENE	SVOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8270C	05/12/2003	0.021	U	0.021	0.17
HEXACHLOROBENZENE	SVOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8270C	07/22/2002	0.041	U	0.041	0.19
HEXACHLOROBENZENE	SVOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8270C	07/22/2002	0.037	U	0.037	0.17
HEXACHLOROBENZENE	SVOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8270C	07/22/2002	0.037	U	0.037	0.17

TABLE A-2

Database Output of Soil Samples at AVMA Retained After Evaluation [a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
HEXACHLOROBENZENE	SVOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8270C	07/22/2002	0.086	U	0.086	0.4
HEXACHLOROBENZENE	SVOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8270C	07/23/2002	0.038	U	0.038	0.18
HEXACHLOROBENZENE	SVOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8270C	07/23/2002	0.04	U	0.04	0.19
HEXACHLOROBENZENE	SVOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8270C	07/24/2002	0.038	U	0.038	0.18
HEXACHLOROBENZENE	SVOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8270C	07/24/2002	0.037	U		
HEXACHLOROBENZENE	SVOC	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8270C	07/24/2002	0.037	U	0.037	0.17
HEXACHLOROBENZENE	SVOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8270C	07/24/2002	0.036	U	0.036	0.17
HEXACHLOROBENZENE	SVOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8270C	08/20/2002	0.044	U	0.044	0.21
HEXACHLOROBENZENE	SVOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8270C	08/20/2002	0.037	U	0.037	0.17
HEXACHLOROBENZENE	SVOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8270C	08/20/2002	0.037	U		
HEXACHLOROBENZENE	SVOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8270C	08/20/2002	0.037	U	0.037	0.17
HEXACHLOROBENZENE	SVOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8270C	08/22/2002	0.21	U	0.21	0.99
HEXACHLOROBENZENE	SVOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8270C	08/21/2002	0.037	U	0.037	0.17
HEXACHLOROBENZENE	SVOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8270C	01/23/2001	0.0089	U	0.0089	0.035
HEXACHLOROBENZENE	SVOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8270C	01/25/2001	0.0091	U		
HEXACHLOROBUTADIENE	VOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8260B	08/21/2002	0.0042	U		
HEXACHLOROBUTADIENE	VOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8260B	05/12/2003	0.0075	U	0.0075	0.022
HEXACHLOROBUTADIENE	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8260B	07/22/2002	0.013	U	0.013	0.04
HEXACHLOROBUTADIENE	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.0056	U	0.0056	0.017
HEXACHLOROBUTADIENE	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.0073	U	0.0073	0.022
HEXACHLOROBUTADIENE	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.011	U	0.011	0.034
HEXACHLOROBUTADIENE	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.0081	U	0.0081	0.024
HEXACHLOROBUTADIENE	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.0077	U	0.0077	0.023
HEXACHLOROBUTADIENE	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.024	JB	0.01	0.03
HEXACHLOROBUTADIENE	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.0096	U		
HEXACHLOROBUTADIENE	VOC	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8270C	07/24/2002	0.069	U	0.069	0.21
HEXACHLOROBUTADIENE	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.01	U	0.01	0.031
HEXACHLOROBUTADIENE	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.0059	U	0.0059	0.018
HEXACHLOROBUTADIENE	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.0071	J	0.0038	0.012
HEXACHLOROBUTADIENE	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.0038	U		
HEXACHLOROBUTADIENE	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.0036	U	0.0036	0.011
HEXACHLOROBUTADIENE	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.0061	U	0.0061	0.018
HEXACHLOROBUTADIENE	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.0059	U	0.0059	0.018
HEXACHLOROBUTADIENE	VOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8260B	01/23/2001	0.00023	U	0.00023	0.00045
HEXACHLOROBUTADIENE	VOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8260B	01/25/2001	0.00027	U		
HEXACHLOROCYCLOPENTADIENE	SVOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8270C	08/21/2002	0.013	UR		
HEXACHLOROCYCLOPENTADIENE	SVOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8270C	05/12/2003	0.053	U	0.053	0.17
HEXACHLOROCYCLOPENTADIENE	SVOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8270C	07/22/2002	0.014	U	0.014	0.19
HEXACHLOROCYCLOPENTADIENE	SVOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8270C	07/22/2002	0.013	U	0.013	0.17
HEXACHLOROCYCLOPENTADIENE	SVOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8270C	07/22/2002	0.013	U	0.013	0.17
HEXACHLOROCYCLOPENTADIENE	SVOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8270C	07/22/2002	0.03	U	0.03	0.4
HEXACHLOROCYCLOPENTADIENE	SVOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8270C	07/23/2002	0.013	U	0.013	0.18
HEXACHLOROCYCLOPENTADIENE	SVOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8270C	07/23/2002	0.014	U	0.014	0.19
HEXACHLOROCYCLOPENTADIENE	SVOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8270C	07/24/2002	0.013	U	0.013	0.18
HEXACHLOROCYCLOPENTADIENE	SVOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8270C	07/24/2002	0.013	U		
HEXACHLOROCYCLOPENTADIENE	SVOC	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8270C	07/24/2002	0.013	U	0.013	0.17
HEXACHLOROCYCLOPENTADIENE	SVOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8270C	07/24/2002	0.013	U	0.013	0.17
HEXACHLOROCYCLOPENTADIENE	SVOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8270C	08/20/2002	0.015	UR	0.015	0.21
HEXACHLOROCYCLOPENTADIENE	SVOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8270C	08/20/2002	0.013	UR	0.013	0.17
HEXACHLOROCYCLOPENTADIENE	SVOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8270C	08/20/2002	0.013	UR		
HEXACHLOROCYCLOPENTADIENE	SVOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8270C	08/20/2002	0.013	UR	0.013	0.17

TABLE A-2

Database Output of Soil Samples at AVMA Retained After Evaluation [a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
HEXACHLOROCYCLOPENTADIENE	SVOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8270C	08/22/2002	0.073	UR	0.073	0.99
HEXACHLOROCYCLOPENTADIENE	SVOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8270C	08/21/2002	0.013	UR	0.013	0.17
HEXACHLOROCYCLOPENTADIENE	SVOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8270C	01/23/2001	0.0054	U	0.0054	0.035
HEXACHLOROCYCLOPENTADIENE	SVOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8270C	01/25/2001	0.0055	U		
HEXACHLOROETHANE	SVOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8270C	08/21/2002	0.063	U		
HEXACHLOROETHANE	SVOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8270C	05/12/2003	0.023	U	0.023	0.19
HEXACHLOROETHANE	SVOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8270C	07/22/2002	0.067	U	0.067	0.21
HEXACHLOROETHANE	SVOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8270C	07/22/2002	0.06	U	0.06	0.18
HEXACHLOROETHANE	SVOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8270C	07/22/2002	0.061	U	0.061	0.19
HEXACHLOROETHANE	SVOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8270C	07/22/2002	0.14	U	0.14	0.44
HEXACHLOROETHANE	SVOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8270C	07/23/2002	0.063	U	0.063	0.19
HEXACHLOROETHANE	SVOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8270C	07/23/2002	0.065	U	0.065	0.2
HEXACHLOROETHANE	SVOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8270C	07/24/2002	0.063	U	0.063	0.19
HEXACHLOROETHANE	SVOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8270C	07/24/2002	0.061	U		
HEXACHLOROETHANE	SVOC	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8270C	07/24/2002	0.06	U	0.06	0.19
HEXACHLOROETHANE	SVOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8270C	07/24/2002	0.059	U	0.059	0.18
HEXACHLOROETHANE	SVOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8270C	08/20/2002	0.072	U	0.072	0.22
HEXACHLOROETHANE	SVOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8270C	08/20/2002	0.06	U	0.06	0.19
HEXACHLOROETHANE	SVOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8270C	08/20/2002	0.06	U		
HEXACHLOROETHANE	SVOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8270C	08/20/2002	0.061	U	0.061	0.19
HEXACHLOROETHANE	SVOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8270C	08/22/2002	0.35	U	0.35	1.1
HEXACHLOROETHANE	SVOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8270C	08/21/2002	0.06	U	0.06	0.19
HEXACHLOROETHANE	SVOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8270C	01/23/2001	0.011	U	0.011	0.035
HEXACHLOROETHANE	SVOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8270C	01/25/2001	0.011	U		
INDENO(1,2,3-c,d)PYRENE	SVOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8270C	08/21/2002	0.035	U		
INDENO(1,2,3-c,d)PYRENE	SVOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	PAHSIM	05/12/2003	0.000473	U	0.000473	0.00176
INDENO(1,2,3-c,d)PYRENE	SVOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8270C	07/22/2002	0.53	=	0.037	0.19
INDENO(1,2,3-c,d)PYRENE	SVOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8270C	07/22/2002	0.033	U	0.033	0.17
INDENO(1,2,3-c,d)PYRENE	SVOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8270C	07/22/2002	0.085	J	0.034	0.17
INDENO(1,2,3-c,d)PYRENE	SVOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8270C	07/22/2002	0.078	U	0.078	0.4
INDENO(1,2,3-c,d)PYRENE	SVOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8270C	07/23/2002	0.043	J	0.035	0.18
INDENO(1,2,3-c,d)PYRENE	SVOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8270C	07/23/2002	0.036	U	0.036	0.19
INDENO(1,2,3-c,d)PYRENE	SVOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8270C	07/24/2002	0.035	U	0.035	0.18
INDENO(1,2,3-c,d)PYRENE	SVOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8270C	07/24/2002	0.034	U		
INDENO(1,2,3-c,d)PYRENE	SVOC	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8270C	07/24/2002	0.033	U	0.033	0.17
INDENO(1,2,3-c,d)PYRENE	SVOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8270C	07/24/2002	0.033	U	0.033	0.17
INDENO(1,2,3-c,d)PYRENE	SVOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8270C	08/20/2002	0.04	U	0.04	0.21
INDENO(1,2,3-c,d)PYRENE	SVOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8270C	08/20/2002	0.033	U	0.033	0.17
INDENO(1,2,3-c,d)PYRENE	SVOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8270C	08/20/2002	0.033	U		
INDENO(1,2,3-c,d)PYRENE	SVOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8270C	08/20/2002	0.034	U	0.034	0.17
INDENO(1,2,3-c,d)PYRENE	SVOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8270C	08/22/2002	0.19	U	0.19	0.99
INDENO(1,2,3-c,d)PYRENE	SVOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8270C	08/21/2002	0.033	U	0.033	0.17
INDENO(1,2,3-c,d)PYRENE	SVOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8270C	01/23/2001	4.1	CJ	0.0026	0.007
INDENO(1,2,3-c,d)PYRENE	SVOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8270C	01/25/2001	0.0027	U		
IODOMETHANE (METHYL IODIDE)	VOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8260B	08/21/2002	0.0043	U		
IODOMETHANE (METHYL IODIDE)	VOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8260B	05/12/2003	0.023	U	0.023	0.07
IODOMETHANE (METHYL IODIDE)	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8260B	07/22/2002	0.014	U	0.014	0.041
IODOMETHANE (METHYL IODIDE)	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.0058	U	0.0058	0.017
IODOMETHANE (METHYL IODIDE)	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.0075	U	0.0075	0.023
IODOMETHANE (METHYL IODIDE)	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.012	U	0.012	0.035
IODOMETHANE (METHYL IODIDE)	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.0083	U	0.0083	0.025

TABLE A-2

Database Output of Soil Samples at AVMA Retained After Evaluation [a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
IODOMETHANE (METHYL IODIDE)	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.0079	U	0.0079	0.024
IODOMETHANE (METHYL IODIDE)	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.01	U	0.01	0.031
IODOMETHANE (METHYL IODIDE)	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.0098	U		
IODOMETHANE (METHYL IODIDE)	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.011	U	0.011	0.032
IODOMETHANE (METHYL IODIDE)	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.0061	U	0.0061	0.018
IODOMETHANE (METHYL IODIDE)	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.0039	U	0.0039	0.012
IODOMETHANE (METHYL IODIDE)	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.085	J		
IODOMETHANE (METHYL IODIDE)	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.0037	U	0.0037	0.011
IODOMETHANE (METHYL IODIDE)	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.0063	U	0.0063	0.019
IODOMETHANE (METHYL IODIDE)	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.0061	U	0.0061	0.018
IRON	METAL	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW6010B	08/21/2002	36000	=		
IRON	METAL	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW6010B	07/22/2002	37000	=	0.45	6.1
IRON	METAL	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW6010B	07/22/2002	32000	=	0.38	5.2
IRON	METAL	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW6010B	07/22/2002	34000	=	0.42	5.7
IRON	METAL	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW6010B	07/22/2002	34000	=	0.38	5.2
IRON	METAL	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW6010B	07/23/2002	33000	=	0.47	6.4
IRON	METAL	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW6010B	07/23/2002	33000	=	0.34	4.7
IRON	METAL	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW6010B	07/24/2002	34000	=	0.43	5.9
IRON	METAL	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW6010B	07/24/2002	33000	=		
IRON	METAL	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW6010B	07/24/2002	41000	=	0.43	5.8
IRON	METAL	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW6010B	07/24/2002	30000	=	0.27	3.7
IRON	METAL	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW6010B	08/20/2002	39900	=	0.517	7.05
IRON	METAL	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW6010B	08/20/2002	36800	=	0.559	7.62
IRON	METAL	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW6010B	08/20/2002	38050	=		
IRON	METAL	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW6010B	08/20/2002	36400	=	0.418	5.7
IRON	METAL	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW6010B	08/22/2002	35000	=	0.37	5
IRON	METAL	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW6010B	08/21/2002	35000	=	0.4	5.4
ISOPHORONE	SVOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8270C	08/21/2002	0.046	U		
ISOPHORONE	SVOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8270C	05/12/2003	0.023	U	0.023	0.17
ISOPHORONE	SVOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8270C	07/22/2002	0.049	U	0.049	0.19
ISOPHORONE	SVOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8270C	07/22/2002	0.043	U	0.043	0.17
ISOPHORONE	SVOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8270C	07/22/2002	0.044	U	0.044	0.17
ISOPHORONE	SVOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8270C	07/22/2002	0.1	U	0.1	0.4
ISOPHORONE	SVOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8270C	07/23/2002	0.045	U	0.045	0.18
ISOPHORONE	SVOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8270C	07/23/2002	0.047	U	0.047	0.19
ISOPHORONE	SVOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8270C	07/24/2002	0.046	U	0.046	0.18
ISOPHORONE	SVOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8270C	07/24/2002	0.044	U		
ISOPHORONE	SVOC	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8270C	07/24/2002	0.044	U	0.044	0.17
ISOPHORONE	SVOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8270C	07/24/2002	0.043	U	0.043	0.17
ISOPHORONE	SVOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8270C	08/20/2002	0.052	U	0.052	0.21
ISOPHORONE	SVOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8270C	08/20/2002	0.044	U	0.044	0.17
ISOPHORONE	SVOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8270C	08/20/2002	0.044	U		
ISOPHORONE	SVOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8270C	08/20/2002	0.044	U	0.044	0.17
ISOPHORONE	SVOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8270C	08/22/2002	0.25	U	0.25	0.99
ISOPHORONE	SVOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8270C	08/21/2002	0.044	U	0.044	0.17
ISOPHORONE	SVOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8270C	01/23/2001	0.0094	U	0.0094	0.035
ISOPHORONE	SVOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8270C	01/25/2001	0.0095	U		
ISOPROPYLBENZENE (CUMENE)	VOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8260B	08/21/2002	0.00082	U		
ISOPROPYLBENZENE (CUMENE)	VOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8260B	05/12/2003	0.0035	U	0.0035	0.01
ISOPROPYLBENZENE (CUMENE)	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8260B	07/22/2002	0.0026	U	0.0026	0.016
ISOPROPYLBENZENE (CUMENE)	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.0011	U	0.0011	0.0069

TABLE A-2

Database Output of Soil Samples at AVMA Retained After Evaluation [a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
ISOPROPYLBENZENE (CUMENE)	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.0014	U	0.0014	0.009
ISOPROPYLBENZENE (CUMENE)	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.0022	U	0.0022	0.014
ISOPROPYLBENZENE (CUMENE)	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.012	=	0.0016	0.0098
ISOPROPYLBENZENE (CUMENE)	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.011	=	0.0015	0.0094
ISOPROPYLBENZENE (CUMENE)	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.0019	U	0.0019	0.012
ISOPROPYLBENZENE (CUMENE)	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.0019	U		
ISOPROPYLBENZENE (CUMENE)	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.002	U	0.002	0.013
ISOPROPYLBENZENE (CUMENE)	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.0012	U	0.0012	0.0072
ISOPROPYLBENZENE (CUMENE)	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.00075	U	0.00075	0.0047
ISOPROPYLBENZENE (CUMENE)	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.00073	U		
ISOPROPYLBENZENE (CUMENE)	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.0007	U	0.0007	0.0044
ISOPROPYLBENZENE (CUMENE)	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.0012	U	0.0012	0.0075
ISOPROPYLBENZENE (CUMENE)	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.0012	U	0.0012	0.0072
ISOPROPYLBENZENE (CUMENE)	VOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8260B	01/23/2001	0.00023	U	0.00023	0.00045
ISOPROPYLBENZENE (CUMENE)	VOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8260B	01/25/2001	0.00027	U		
LEAD	METAL	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW6010B	08/21/2002	6.4	D		
LEAD	METAL	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW6010B	07/22/2002	7	=	1.9	6.1
LEAD	METAL	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW6010B	07/22/2002	43	=	1.6	5.2
LEAD	METAL	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW6010B	07/22/2002	36	=	1.8	5.7
LEAD	METAL	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW6010B	07/22/2002	13	=	1.6	5.2
LEAD	METAL	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW6010B	07/23/2002	13	=	2	6.4
LEAD	METAL	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW6010B	07/23/2002	32	=	1.5	4.7
LEAD	METAL	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW6010B	07/24/2002	6	=	1.9	5.9
LEAD	METAL	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW6010B	07/24/2002	3.15	J		
LEAD	METAL	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW6010B	07/24/2002	4.6	J	1.8	5.8
LEAD	METAL	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW6010B	07/24/2002	3.7	=	1.2	3.7
LEAD	METAL	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW6010B	08/20/2002	7.17	=	2.23	7.05
LEAD	METAL	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW6010B	08/20/2002	4.64	=	1.21	3.81
LEAD	METAL	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW6010B	08/20/2002	6.315	D		
LEAD	METAL	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW6010B	08/20/2002	3.42	J	1.8	5.7
LEAD	METAL	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW6010B	08/22/2002	11	=	1.6	5
LEAD	METAL	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW6010B	08/21/2002	4.3	J	1.7	5.4
LEAD	METAL	Unknown	00FRAW10SL	AP-4146	4.5-6	SW6010	01/23/2001	15	=	0.39	1.9
LEAD	METAL	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW6010	01/25/2001	18	=		
MAGNESIUM	METAL	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW6010B	08/21/2002	10500	=		
MAGNESIUM	METAL	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW6010B	07/22/2002	6800	=	2.5	10
MAGNESIUM	METAL	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW6010B	07/22/2002	10000	=	2.2	8.6
MAGNESIUM	METAL	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW6010B	07/22/2002	8900	=	2.4	9.5
MAGNESIUM	METAL	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW6010B	07/22/2002	7900	=	2.2	8.6
MAGNESIUM	METAL	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW6010B	07/23/2002	7700	=	2.7	11
MAGNESIUM	METAL	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW6010B	07/23/2002	7300	=	2	7.8
MAGNESIUM	METAL	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW6010B	07/24/2002	8800	=	2.5	9.9
MAGNESIUM	METAL	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW6010B	07/24/2002	10900	=		
MAGNESIUM	METAL	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW6010B	07/24/2002	13000	=	2.4	9.7
MAGNESIUM	METAL	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW6010B	07/24/2002	9300	=	1.5	6.2
MAGNESIUM	METAL	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW6010B	08/20/2002	8560	=	2.94	11.8
MAGNESIUM	METAL	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW6010B	08/20/2002	11200	=	1.59	6.35
MAGNESIUM	METAL	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW6010B	08/20/2002	11450	=		
MAGNESIUM	METAL	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW6010B	08/20/2002	12200	=	2.37	9.5
MAGNESIUM	METAL	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW6010B	08/22/2002	13000	=	2.1	8.3
MAGNESIUM	METAL	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW6010B	08/21/2002	10000	=	2.3	9.1

TABLE A-2

Database Output of Soil Samples at AVMA Retained After Evaluation [a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
MANGANESE	METAL	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW6010B	08/21/2002	610	=		
MANGANESE	METAL	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW6010B	07/22/2002	550	=	0.03	1
MANGANESE	METAL	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW6010B	07/22/2002	540	=	0.026	0.86
MANGANESE	METAL	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW6010B	07/22/2002	580	=	0.029	0.95
MANGANESE	METAL	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW6010B	07/22/2002	540	=	0.026	0.86
MANGANESE	METAL	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW6010B	07/23/2002	540	=	0.032	1.1
MANGANESE	METAL	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW6010B	07/23/2002	640	=	0.023	0.78
MANGANESE	METAL	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW6010B	07/24/2002	510	=	0.03	0.99
MANGANESE	METAL	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW6010B	07/24/2002	600	=		
MANGANESE	METAL	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW6010B	07/24/2002	850	=	0.029	0.97
MANGANESE	METAL	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW6010B	07/24/2002	510	=	0.018	0.62
MANGANESE	METAL	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW6010B	08/20/2002	739	=	0.0353	1.18
MANGANESE	METAL	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW6010B	08/20/2002	656	=	0.0191	0.635
MANGANESE	METAL	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW6010B	08/20/2002	668.5	=		
MANGANESE	METAL	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW6010B	08/20/2002	591	=	0.0285	0.95
MANGANESE	METAL	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW6010B	08/22/2002	600	=	0.025	0.83
MANGANESE	METAL	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW6010B	08/21/2002	630	=	0.027	0.91
MERCURY	METAL	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW7471A	08/21/2002	0.0735	=		
MERCURY	METAL	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW7471A	07/22/2002	0.09	B	0.0012	0.049
MERCURY	METAL	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW7471A	07/22/2002	0.06	B	0.001	0.043
MERCURY	METAL	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW7471A	07/22/2002	0.064	B	0.001	0.042
MERCURY	METAL	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW7471A	07/22/2002	0.042	JB	0.0013	0.052
MERCURY	METAL	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW7471A	07/23/2002	0.045	J	0.0011	0.047
MERCURY	METAL	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW7471A	07/23/2002	0.095	=	0.0011	0.044
MERCURY	METAL	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW7471A	07/24/2002	0.047	J	0.0012	0.049
MERCURY	METAL	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW7471A	07/24/2002	0.0405	J		
MERCURY	METAL	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW7471A	07/24/2002	0.075	=	0.0011	0.047
MERCURY	METAL	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW7471A	07/24/2002	0.041	J	0.001	0.043
MERCURY	METAL	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW7471A	08/20/2002	0.047	J	0.0014	0.056
MERCURY	METAL	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW7471A	08/20/2002	0.056	=	0.001	0.041
MERCURY	METAL	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW7471A	08/20/2002	0.053	=		
MERCURY	METAL	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW7471A	08/20/2002	0.042	J	0.0011	0.045
MERCURY	METAL	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW7471A	08/22/2002	0.063	=	0.0011	0.046
MERCURY	METAL	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW7471A	08/21/2002	0.037	J	0.0011	0.047
MERCURY	METAL	Unknown	00FRAW10SL	AP-4146	4.5-6	SW7471	01/23/2001	0.073	=	0.028	0.043
MERCURY	METAL	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW7471	01/25/2001	0.067	=		
METHOXYCHLOR	PEST/PCB	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8081A	08/21/2002	0.00143	U		
METHOXYCHLOR	PEST/PCB	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8081A	07/22/2002	0.0015	U	0.0015	0.011
METHOXYCHLOR	PEST/PCB	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8081A	07/22/2002	0.0063	J	0.0013	0.0099
METHOXYCHLOR	PEST/PCB	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8081A	07/22/2002	0.0025	J	0.0013	0.01
METHOXYCHLOR	PEST/PCB	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8081A	07/22/2002	0.0036	J	0.0016	0.012
METHOXYCHLOR	PEST/PCB	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8081A	07/23/2002	0.0014	U	0.0014	0.01
METHOXYCHLOR	PEST/PCB	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8081A	07/23/2002	0.0033	J	0.0014	0.011
METHOXYCHLOR	PEST/PCB	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8081A	07/24/2002	0.00139	U	0.00139	0.0104
METHOXYCHLOR	PEST/PCB	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8081A	07/24/2002	0.00133	U		
METHOXYCHLOR	PEST/PCB	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8081A	07/24/2002	0.00133	U	0.00133	0.00988
METHOXYCHLOR	PEST/PCB	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8081A	07/24/2002	0.00131	U	0.00131	0.00978
METHOXYCHLOR	PEST/PCB	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8081A	08/20/2002	0.00151	U	0.00151	0.011
METHOXYCHLOR	PEST/PCB	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8081A	08/20/2002	0.00137	U	0.00137	0.00996
METHOXYCHLOR	PEST/PCB	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8081A	08/20/2002	0.00129	U		
METHOXYCHLOR	PEST/PCB	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8081A	08/20/2002	0.00137	U	0.00137	0.00992

TABLE A-2

Database Output of Soil Samples at AVMA Retained After Evaluation [a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
METHOXYCHLOR	PEST/PCB	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8081A	08/22/2002	0.0268	U	0.0268	0.195
METHOXYCHLOR	PEST/PCB	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8081A	08/21/2002	0.00133	U	0.00133	0.00962
METHOXYCHLOR	PEST/PCB	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8081A	01/23/2001	0.00088	U	0.00088	0.011
METHOXYCHLOR	PEST/PCB	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8081A	01/25/2001	0.00086	U		
METHYL ETHYL KETONE (2-BUTANONE)	VOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8260B	08/21/2002	0.041	=		
METHYL ETHYL KETONE (2-BUTANONE)	VOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8260B	05/12/2003	0.025	U	0.0089	0.079
METHYL ETHYL KETONE (2-BUTANONE)	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8260B	07/22/2002	0.016	U	0.016	0.049
METHYL ETHYL KETONE (2-BUTANONE)	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.007	U	0.007	0.021
METHYL ETHYL KETONE (2-BUTANONE)	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.0091	U	0.0091	0.027
METHYL ETHYL KETONE (2-BUTANONE)	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.06	=	0.014	0.042
METHYL ETHYL KETONE (2-BUTANONE)	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.13	=	0.01	0.03
METHYL ETHYL KETONE (2-BUTANONE)	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.16	=	0.0096	0.029
METHYL ETHYL KETONE (2-BUTANONE)	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.058	J	0.012	0.037
METHYL ETHYL KETONE (2-BUTANONE)	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.065	J		
METHYL ETHYL KETONE (2-BUTANONE)	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.013	U	0.013	0.039
METHYL ETHYL KETONE (2-BUTANONE)	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.048	JB	0.0074	0.022
METHYL ETHYL KETONE (2-BUTANONE)	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.037	JB	0.0048	0.014
METHYL ETHYL KETONE (2-BUTANONE)	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.0255	JB		
METHYL ETHYL KETONE (2-BUTANONE)	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.037	JB	0.0045	0.013
METHYL ETHYL KETONE (2-BUTANONE)	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.091	=	0.0076	0.023
METHYL ETHYL KETONE (2-BUTANONE)	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.0073	U	0.0073	0.022
METHYL ETHYL KETONE (2-BUTANONE)	VOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8260B	01/23/2001	0.0011	U	0.0011	0.0023
METHYL ETHYL KETONE (2-BUTANONE)	VOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8260B	01/25/2001	0.0088	=		
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	VOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8260B	08/21/2002	0.0015	U		
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	VOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8260B	05/12/2003	0.0073	U	0.0073	0.022
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8260B	07/22/2002	0.0048	U	0.0048	0.016
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.0021	U	0.0021	0.0069
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.0027	U	0.0027	0.009
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.0041	U	0.0041	0.014
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.003	U	0.003	0.0098
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.0028	U	0.0028	0.0094
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.0037	U	0.0037	0.012
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.0035	U		
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.0038	U	0.0038	0.013
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.0022	U	0.0022	0.0072
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.0014	U	0.0014	0.0047
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.0014	U		
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.0013	U	0.0013	0.0044
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.0022	U	0.0022	0.0075
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.0022	U	0.0022	0.0072
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	VOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8260B	01/23/2001	0.0011	U	0.0011	0.0023
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	VOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8260B	01/25/2001	0.0014	U		
METHYLENE CHLORIDE	VOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8260B	08/21/2002	0.0185	JB		
METHYLENE CHLORIDE	VOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8260B	05/12/2003	0.04	U	0.0062	0.019
METHYLENE CHLORIDE	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8260B	07/22/2002	0.2	B	0.039	0.12
METHYLENE CHLORIDE	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.13	B	0.016	0.049
METHYLENE CHLORIDE	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.05	JB	0.021	0.064
METHYLENE CHLORIDE	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.1	B	0.033	0.099
METHYLENE CHLORIDE	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.062	JB	0.024	0.071
METHYLENE CHLORIDE	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.056	JB	0.023	0.068
METHYLENE CHLORIDE	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.13	JB	0.029	0.088

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Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
METHYLENE CHLORIDE	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.31	JB		
METHYLENE CHLORIDE	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.15	JB	0.031	0.092
METHYLENE CHLORIDE	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.026	JB	0.017	0.052
METHYLENE CHLORIDE	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.018	JB	0.011	0.034
METHYLENE CHLORIDE	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.023	JB		
METHYLENE CHLORIDE	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.014	JB	0.011	0.032
METHYLENE CHLORIDE	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.034	JB	0.018	0.054
METHYLENE CHLORIDE	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.031	JB	0.017	0.052
METHYLENE CHLORIDE	VOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8260B	01/23/2001	0.00023	U	0.00023	0.00045
METHYLENE CHLORIDE	VOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8260B	01/25/2001	0.00027	U		
NAPHTHALENE	VOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8260B	08/21/2002	0.001	UJ		
NAPHTHALENE	VOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	PAHSIM	05/12/2003	0.000314	U	0.000314	0.00176
NAPHTHALENE	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8270C	07/22/2002	0.36	=	0.019	0.19
NAPHTHALENE	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.83	=	0.0013	0.0069
NAPHTHALENE	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.0018	U	0.0018	0.009
NAPHTHALENE	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.0027	U	0.0027	0.014
NAPHTHALENE	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.06	=	0.0019	0.0098
NAPHTHALENE	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8270C	07/23/2002	0.2	=	0.018	0.19
NAPHTHALENE	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.0024	U	0.0024	0.012
NAPHTHALENE	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.0023	U		
NAPHTHALENE	VOC	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8270C	07/24/2002	0.017	U	0.017	0.17
NAPHTHALENE	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.0025	U	0.0025	0.013
NAPHTHALENE	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8270C	08/20/2002	0.34	=	0.02	0.21
NAPHTHALENE	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.00092	UJ	0.00092	0.0047
NAPHTHALENE	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.032	J		
NAPHTHALENE	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.00086	UJ	0.00086	0.0044
NAPHTHALENE	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.0015	U	0.0015	0.0075
NAPHTHALENE	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.0014	U	0.0014	0.0072
NAPHTHALENE	VOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8270C	01/23/2001	0.88	=	0.0069	0.007
NAPHTHALENE	VOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8270C	01/25/2001	0.0295	=		
n-BUTYLBENZENE	VOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8260B	08/21/2002	0.00097	U		
n-BUTYLBENZENE	VOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8260B	05/12/2003	0.0033	U	0.0033	0.0098
n-BUTYLBENZENE	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8260B	07/22/2002	0.0031	U	0.0031	0.016
n-BUTYLBENZENE	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.0013	U	0.0013	0.0069
n-BUTYLBENZENE	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.0017	U	0.0017	0.009
n-BUTYLBENZENE	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.0026	U	0.0026	0.014
n-BUTYLBENZENE	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.0019	U	0.0019	0.0098
n-BUTYLBENZENE	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.011	=	0.0018	0.0094
n-BUTYLBENZENE	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.0023	U	0.0023	0.012
n-BUTYLBENZENE	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.0022	U		
n-BUTYLBENZENE	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.0024	U	0.0024	0.013
n-BUTYLBENZENE	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.0014	U	0.0014	0.0072
n-BUTYLBENZENE	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.00089	U	0.00089	0.0047
n-BUTYLBENZENE	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.00087	U		
n-BUTYLBENZENE	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.00084	U	0.00084	0.0044
n-BUTYLBENZENE	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.0014	U	0.0014	0.0075
n-BUTYLBENZENE	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.0014	U	0.0014	0.0072
n-BUTYLBENZENE	VOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8260B	01/23/2001	0.00023	U	0.00023	0.00045
n-BUTYLBENZENE	VOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8260B	01/25/2001	0.00027	U		
NICKEL	METAL	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW6010B	08/21/2002	40	=		
NICKEL	METAL	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW6010B	07/22/2002	31	=	1.3	4.1

TABLE A-2

Database Output of Soil Samples at AVMA Retained After Evaluation [a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
NICKEL	METAL	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW6010B	07/22/2002	36	=	1.1	3.4
NICKEL	METAL	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW6010B	07/22/2002	35	=	1.2	3.8
NICKEL	METAL	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW6010B	07/22/2002	35	=	1.1	3.4
NICKEL	METAL	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW6010B	07/23/2002	34	=	1.4	4.2
NICKEL	METAL	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW6010B	07/23/2002	32	=	1	3.1
NICKEL	METAL	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW6010B	07/24/2002	36	=	1.3	3.9
NICKEL	METAL	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW6010B	07/24/2002	40	=		
NICKEL	METAL	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW6010B	07/24/2002	45	=	1.2	3.9
NICKEL	METAL	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW6010B	07/24/2002	31	=	0.79	2.5
NICKEL	METAL	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW6010B	08/20/2002	38.6	=	1.51	4.7
NICKEL	METAL	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW6010B	08/20/2002	39.4	=	0.816	2.54
NICKEL	METAL	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW6010B	08/20/2002	37.85	=		
NICKEL	METAL	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW6010B	08/20/2002	40.2	=	1.22	3.8
NICKEL	METAL	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW6010B	08/22/2002	62	=	1.1	3.3
NICKEL	METAL	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW6010B	08/21/2002	38	=	1.2	3.6
NITROBENZENE	SVOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8270C	08/21/2002	0.061	U		
NITROBENZENE	SVOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8270C	05/12/2003	0.018	U	0.018	0.17
NITROBENZENE	SVOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8270C	07/22/2002	0.066	U	0.066	0.19
NITROBENZENE	SVOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8270C	07/22/2002	0.059	U	0.059	0.17
NITROBENZENE	SVOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8270C	07/22/2002	0.06	U	0.06	0.17
NITROBENZENE	SVOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8270C	07/22/2002	0.14	U	0.14	0.4
NITROBENZENE	SVOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8270C	07/23/2002	0.061	U	0.061	0.18
NITROBENZENE	SVOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8270C	07/23/2002	0.064	U	0.064	0.19
NITROBENZENE	SVOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8270C	07/24/2002	0.062	U	0.062	0.18
NITROBENZENE	SVOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8270C	07/24/2002	0.059	U		
NITROBENZENE	SVOC	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8270C	07/24/2002	0.059	U	0.059	0.17
NITROBENZENE	SVOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8270C	07/24/2002	0.058	U	0.058	0.17
NITROBENZENE	SVOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8270C	08/20/2002	0.07	U	0.07	0.21
NITROBENZENE	SVOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8270C	08/20/2002	0.059	U	0.059	0.17
NITROBENZENE	SVOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8270C	08/20/2002	0.059	U		
NITROBENZENE	SVOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8270C	08/20/2002	0.06	U	0.06	0.17
NITROBENZENE	SVOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8270C	08/22/2002	0.34	U	0.34	0.99
NITROBENZENE	SVOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8270C	08/21/2002	0.059	U	0.059	0.17
NITROBENZENE	SVOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8270C	01/23/2001	0.0057	U	0.0057	0.035
NITROBENZENE	SVOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8270C	01/25/2001	0.0058	U		
N-NITROSODI-n-PROPYLAMINE	SVOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8270C	08/21/2002	0.056	U		
N-NITROSODI-n-PROPYLAMINE	SVOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8270C	05/12/2003	0.027	U	0.027	0.17
N-NITROSODI-n-PROPYLAMINE	SVOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8270C	07/22/2002	0.06	U	0.06	0.19
N-NITROSODI-n-PROPYLAMINE	SVOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8270C	07/22/2002	0.053	U	0.053	0.17
N-NITROSODI-n-PROPYLAMINE	SVOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8270C	07/22/2002	0.055	U	0.055	0.17
N-NITROSODI-n-PROPYLAMINE	SVOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8270C	07/22/2002	0.13	U	0.13	0.4
N-NITROSODI-n-PROPYLAMINE	SVOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8270C	07/23/2002	0.056	U	0.056	0.18
N-NITROSODI-n-PROPYLAMINE	SVOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8270C	07/23/2002	0.058	U	0.058	0.19
N-NITROSODI-n-PROPYLAMINE	SVOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8270C	07/24/2002	0.056	U	0.056	0.18
N-NITROSODI-n-PROPYLAMINE	SVOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8270C	07/24/2002	0.054	U		
N-NITROSODI-n-PROPYLAMINE	SVOC	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8270C	07/24/2002	0.054	U	0.054	0.17
N-NITROSODI-n-PROPYLAMINE	SVOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8270C	07/24/2002	0.053	U	0.053	0.17
N-NITROSODI-n-PROPYLAMINE	SVOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8270C	08/20/2002	0.064	U	0.064	0.21
N-NITROSODI-n-PROPYLAMINE	SVOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8270C	08/20/2002	0.054	U	0.054	0.17
N-NITROSODI-n-PROPYLAMINE	SVOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8270C	08/20/2002	0.054	U		
N-NITROSODI-n-PROPYLAMINE	SVOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8270C	08/20/2002	0.054	U	0.054	0.17

TABLE A-2

Database Output of Soil Samples at AVMA Retained After Evaluation [a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
N-NITROSODI-n-PROPYLAMINE	SVOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8270C	08/22/2002	0.31	U	0.31	0.99
N-NITROSODI-n-PROPYLAMINE	SVOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8270C	08/21/2002	0.054	U	0.054	0.17
N-NITROSODI-n-PROPYLAMINE	SVOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8270C	01/23/2001	0.0085	U	0.0085	0.035
N-NITROSODI-n-PROPYLAMINE	SVOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8270C	01/25/2001	0.0086	U		
N-NITROSODIPHENYLAMINE	SVOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8270C	08/21/2002	0.091	U		
N-NITROSODIPHENYLAMINE	SVOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8270C	05/12/2003	0.049	U	0.049	0.27
N-NITROSODIPHENYLAMINE	SVOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8270C	07/22/2002	0.097	U	0.097	0.3
N-NITROSODIPHENYLAMINE	SVOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8270C	07/22/2002	0.087	U	0.087	0.27
N-NITROSODIPHENYLAMINE	SVOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8270C	07/22/2002	0.089	U	0.089	0.27
N-NITROSODIPHENYLAMINE	SVOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8270C	07/22/2002	0.2	U	0.2	0.63
N-NITROSODIPHENYLAMINE	SVOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8270C	07/23/2002	0.091	U	0.091	0.28
N-NITROSODIPHENYLAMINE	SVOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8270C	07/23/2002	0.094	U	0.094	0.29
N-NITROSODIPHENYLAMINE	SVOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8270C	07/24/2002	0.091	U	0.091	0.28
N-NITROSODIPHENYLAMINE	SVOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8270C	07/24/2002	0.088	U		
N-NITROSODIPHENYLAMINE	SVOC	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8270C	07/24/2002	0.087	U	0.087	0.27
N-NITROSODIPHENYLAMINE	SVOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8270C	07/24/2002	0.086	U	0.086	0.26
N-NITROSODIPHENYLAMINE	SVOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8270C	08/20/2002	0.1	U	0.1	0.32
N-NITROSODIPHENYLAMINE	SVOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8270C	08/20/2002	0.087	U	0.087	0.27
N-NITROSODIPHENYLAMINE	SVOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8270C	08/20/2002	0.087	U		
N-NITROSODIPHENYLAMINE	SVOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8270C	08/20/2002	0.088	U	0.088	0.27
N-NITROSODIPHENYLAMINE	SVOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8270C	08/22/2002	0.5	U	0.5	1.5
N-NITROSODIPHENYLAMINE	SVOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8270C	08/21/2002	0.087	U	0.087	0.27
N-NITROSODIPHENYLAMINE	SVOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8270C	01/23/2001	0.0026	U	0.0026	0.035
N-NITROSODIPHENYLAMINE	SVOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8270C	01/25/2001	0.0027	U		
n-PROPYLBENZENE	VOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8260B	08/21/2002	0.0016	U		
n-PROPYLBENZENE	VOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8260B	05/12/2003	0.0028	U	0.0028	0.0085
n-PROPYLBENZENE	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8260B	07/22/2002	0.0051	U	0.0051	0.016
n-PROPYLBENZENE	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.0022	U	0.0022	0.0069
n-PROPYLBENZENE	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.0029	U	0.0029	0.009
n-PROPYLBENZENE	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.0044	U	0.0044	0.014
n-PROPYLBENZENE	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.0032	UJ	0.0032	0.0098
n-PROPYLBENZENE	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.003	UJ	0.003	0.0094
n-PROPYLBENZENE	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.0039	U	0.0039	0.012
n-PROPYLBENZENE	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.0037	U		
n-PROPYLBENZENE	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.0041	U	0.0041	0.013
n-PROPYLBENZENE	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.0023	U	0.0023	0.0072
n-PROPYLBENZENE	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.0015	U	0.0015	0.0047
n-PROPYLBENZENE	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.0015	U		
n-PROPYLBENZENE	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.0014	U	0.0014	0.0044
n-PROPYLBENZENE	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.0024	U	0.0024	0.0075
n-PROPYLBENZENE	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.0023	U	0.0023	0.0072
n-PROPYLBENZENE	VOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8260B	01/23/2001	0.00023	U	0.00023	0.00045
n-PROPYLBENZENE	VOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8260B	01/25/2001	0.00027	U		
O-XYLENE (1,2-DIMETHYLBENZENE)	VOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8260B	08/21/2002	0.0029	U		
O-XYLENE (1,2-DIMETHYLBENZENE)	VOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8260B	05/12/2003	0.0036	U	0.0036	0.011
O-XYLENE (1,2-DIMETHYLBENZENE)	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8260B	07/22/2002	0.009	U	0.009	0.027
O-XYLENE (1,2-DIMETHYLBENZENE)	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.01	J	0.0038	0.012
O-XYLENE (1,2-DIMETHYLBENZENE)	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.005	U	0.005	0.015
O-XYLENE (1,2-DIMETHYLBENZENE)	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.0077	U	0.0077	0.023
O-XYLENE (1,2-DIMETHYLBENZENE)	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.097	=	0.0055	0.017
O-XYLENE (1,2-DIMETHYLBENZENE)	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.069	=	0.0053	0.016

TABLE A-2

Database Output of Soil Samples at AVMA Retained After Evaluation [a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
O-XYLENE (1,2-DIMETHYLBENZENE)	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.0068	U	0.0068	0.02
O-XYLENE (1,2-DIMETHYLBENZENE)	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.0066	U		
O-XYLENE (1,2-DIMETHYLBENZENE)	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.0071	U	0.0071	0.021
O-XYLENE (1,2-DIMETHYLBENZENE)	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.004	U	0.004	0.012
O-XYLENE (1,2-DIMETHYLBENZENE)	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.0026	U	0.0026	0.0079
O-XYLENE (1,2-DIMETHYLBENZENE)	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.0026	U		
O-XYLENE (1,2-DIMETHYLBENZENE)	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.0025	U	0.0025	0.0074
O-XYLENE (1,2-DIMETHYLBENZENE)	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.0042	U	0.0042	0.013
O-XYLENE (1,2-DIMETHYLBENZENE)	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.004	U	0.004	0.012
O-XYLENE (1,2-DIMETHYLBENZENE)	VOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8260B	01/23/2001	0.00023	U	0.00023	0.00045
O-XYLENE (1,2-DIMETHYLBENZENE)	VOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8260B	01/25/2001	0.00027	U		
p,p'-DDD	PEST/PCB	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8081A	08/21/2002	0.000203	U		
p,p'-DDD	PEST/PCB	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8081A	07/22/2002	0.004	=	0.00047	0.0035
p,p'-DDD	PEST/PCB	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8081A	07/22/2002	0.01	=	0.00042	0.0031
p,p'-DDD	PEST/PCB	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8081A	07/22/2002	0.0082	=	0.00043	0.0032
p,p'-DDD	PEST/PCB	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8081A	07/22/2002	0.015	=	0.00049	0.0037
p,p'-DDD	PEST/PCB	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8081A	07/23/2002	0.038	J	0.0022	0.016
p,p'-DDD	PEST/PCB	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8081A	07/23/2002	0.0028	J	0.00046	0.0034
p,p'-DDD	PEST/PCB	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8081A	07/24/2002	0.000764	J	0.000441	0.00328
p,p'-DDD	PEST/PCB	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8081A	07/24/2002	0.000422	U		
p,p'-DDD	PEST/PCB	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8081A	07/24/2002	0.00042	U	0.00042	0.00313
p,p'-DDD	PEST/PCB	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8081A	07/24/2002	0.000416	U	0.000416	0.0031
p,p'-DDD	PEST/PCB	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8081A	08/20/2002	0.000214	U	0.000214	0.0022
p,p'-DDD	PEST/PCB	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8081A	08/20/2002	0.000194	U	0.000194	0.00199
p,p'-DDD	PEST/PCB	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8081A	08/20/2002	0.000183	U		
p,p'-DDD	PEST/PCB	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8081A	08/20/2002	0.000193	U	0.000193	0.00198
p,p'-DDD	PEST/PCB	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8081A	08/22/2002	0.00379	U	0.00379	0.039
p,p'-DDD	PEST/PCB	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8081A	08/21/2002	0.000187	U	0.000187	0.00192
p,p'-DDD	PEST/PCB	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8081A	01/23/2001	0.02	GC	0.00012	0.0021
p,p'-DDD	PEST/PCB	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8081A	01/25/2001	0.00725	GC		
p,p'-DDE	PEST/PCB	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8081A	08/21/2002	0.00024	U		
p,p'-DDE	PEST/PCB	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8081A	07/22/2002	0.0013	J	0.00028	0.0021
p,p'-DDE	PEST/PCB	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8081A	07/22/2002	0.0066	=	0.00025	0.0019
p,p'-DDE	PEST/PCB	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8081A	07/22/2002	0.0071	=	0.00025	0.0019
p,p'-DDE	PEST/PCB	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8081A	07/22/2002	0.003	=	0.00029	0.0022
p,p'-DDE	PEST/PCB	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8081A	07/23/2002	0.039	J	0.0013	0.0099
p,p'-DDE	PEST/PCB	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8081A	07/23/2002	0.0021	=	0.00027	0.0021
p,p'-DDE	PEST/PCB	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8081A	07/24/2002	0.00178	J	0.000259	0.00199
p,p'-DDE	PEST/PCB	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8081A	07/24/2002	0.000248	U		
p,p'-DDE	PEST/PCB	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8081A	07/24/2002	0.000247	U	0.000247	0.00189
p,p'-DDE	PEST/PCB	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8081A	07/24/2002	0.000245	U	0.000245	0.00188
p,p'-DDE	PEST/PCB	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8081A	08/20/2002	0.0012	J,GC	0.000253	0.0022
p,p'-DDE	PEST/PCB	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8081A	08/20/2002	0.000229	U	0.000229	0.00199
p,p'-DDE	PEST/PCB	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8081A	08/20/2002	0.000216	U		
p,p'-DDE	PEST/PCB	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8081A	08/20/2002	0.000228	U	0.000228	0.00198
p,p'-DDE	PEST/PCB	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8081A	08/22/2002	0.00448	U	0.00448	0.039
p,p'-DDE	PEST/PCB	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8081A	08/21/2002	0.000552	J,GC	0.000221	0.00192
p,p'-DDE	PEST/PCB	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8081A	01/23/2001	0.0022	GC	0.00015	0.0021
p,p'-DDE	PEST/PCB	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8081A	01/25/2001	0.00275	GC		
p,p'-DDT	PEST/PCB	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8081A	08/21/2002	0.0447	GC		
p,p'-DDT	PEST/PCB	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8081A	07/22/2002	0.013	=	0.00034	0.0025

TABLE A-2

Database Output of Soil Samples at AVMA Retained After Evaluation [a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
p,p'-DDT	PEST/PCB	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8081A	07/22/2002	0.031	=	0.0015	0.011
p,p'-DDT	PEST/PCB	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8081A	07/22/2002	0.014	=	0.00062	0.0045
p,p'-DDT	PEST/PCB	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8081A	07/22/2002	0.064	=	0.0036	0.026
p,p'-DDT	PEST/PCB	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8081A	07/23/2002	0.24	J	0.016	0.12
p,p'-DDT	PEST/PCB	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8081A	07/23/2002	0.023	=	0.0017	0.012
p,p'-DDT	PEST/PCB	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8081A	07/24/2002	0.022	=	0.00064	0.0047
p,p'-DDT	PEST/PCB	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8081A	07/24/2002	0.000306	U		
p,p'-DDT	PEST/PCB	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8081A	07/24/2002	0.000305	U	0.000305	0.00222
p,p'-DDT	PEST/PCB	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8081A	07/24/2002	0.000302	U	0.000302	0.0022
p,p'-DDT	PEST/PCB	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8081A	08/20/2002	0.00456	GC	0.000285	0.0022
p,p'-DDT	PEST/PCB	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8081A	08/20/2002	0.000258	U	0.000258	0.00199
p,p'-DDT	PEST/PCB	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8081A	08/20/2002	0.000244	U		
p,p'-DDT	PEST/PCB	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8081A	08/20/2002	0.000257	U	0.000257	0.00198
p,p'-DDT	PEST/PCB	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8081A	08/22/2002	0.00505	U	0.00505	0.039
p,p'-DDT	PEST/PCB	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8081A	08/21/2002	0.00614	GC	0.000249	0.00192
p,p'-DDT	PEST/PCB	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8081A	01/23/2001	0.0083	GC	0.00018	0.0021
p,p'-DDT	PEST/PCB	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8081A	01/25/2001	0.042	GC		
PCB-1016 (AROCHLOR 1016)	PEST/PCB	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8082	08/21/2002	0.00115	U		
PCB-1016 (AROCHLOR 1016)	PEST/PCB	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8082	07/22/2002	0.0031	U	0.0031	0.011
PCB-1016 (AROCHLOR 1016)	PEST/PCB	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8082	07/22/2002	0.0027	U	0.0027	0.01
PCB-1016 (AROCHLOR 1016)	PEST/PCB	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8082	07/22/2002	0.0028	U	0.0028	0.01
PCB-1016 (AROCHLOR 1016)	PEST/PCB	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8082	07/22/2002	0.0032	U	0.0032	0.012
PCB-1016 (AROCHLOR 1016)	PEST/PCB	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8082	07/23/2002	0.00289	U	0.00289	0.0108
PCB-1016 (AROCHLOR 1016)	PEST/PCB	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8082	07/23/2002	0.003	U	0.003	0.0112
PCB-1016 (AROCHLOR 1016)	PEST/PCB	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8082	07/24/2002	0.0029	UJ	0.0029	0.011
PCB-1016 (AROCHLOR 1016)	PEST/PCB	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8082	07/24/2002	0.0028	UJ		
PCB-1016 (AROCHLOR 1016)	PEST/PCB	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8082	07/24/2002	0.0028	UJ	0.0028	0.01
PCB-1016 (AROCHLOR 1016)	PEST/PCB	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8082	07/24/2002	0.0027	UJ	0.0027	0.01
PCB-1016 (AROCHLOR 1016)	PEST/PCB	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8082	08/20/2002	0.00121	U	0.00121	0.011
PCB-1016 (AROCHLOR 1016)	PEST/PCB	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8082	08/20/2002	0.0011	U	0.0011	0.00996
PCB-1016 (AROCHLOR 1016)	PEST/PCB	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8082	08/20/2002	0.00103	U		
PCB-1016 (AROCHLOR 1016)	PEST/PCB	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8082	08/20/2002	0.00109	U	0.00109	0.00992
PCB-1016 (AROCHLOR 1016)	PEST/PCB	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8082	08/22/2002	0.0214	U	0.0214	0.195
PCB-1016 (AROCHLOR 1016)	PEST/PCB	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8082	08/21/2002	0.00106	U	0.00106	0.00962
PCB-1016 (AROCHLOR 1016)	PEST/PCB	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8082	01/23/2001	0.0072	U	0.0072	0.011
PCB-1016 (AROCHLOR 1016)	PEST/PCB	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8082	01/25/2001	0.007	U		
PCB-1221 (AROCHLOR 1221)	PEST/PCB	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8082	08/21/2002	0.00491	U		
PCB-1221 (AROCHLOR 1221)	PEST/PCB	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8082	07/22/2002	0.0031	U	0.0031	0.011
PCB-1221 (AROCHLOR 1221)	PEST/PCB	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8082	07/22/2002	0.0027	U	0.0027	0.01
PCB-1221 (AROCHLOR 1221)	PEST/PCB	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8082	07/22/2002	0.0028	U	0.0028	0.01
PCB-1221 (AROCHLOR 1221)	PEST/PCB	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8082	07/22/2002	0.0032	U	0.0032	0.012
PCB-1221 (AROCHLOR 1221)	PEST/PCB	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8082	07/23/2002	0.00289	U	0.00289	0.0108
PCB-1221 (AROCHLOR 1221)	PEST/PCB	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8082	07/23/2002	0.003	U	0.003	0.0112
PCB-1221 (AROCHLOR 1221)	PEST/PCB	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8082	07/24/2002	0.0029	U	0.0029	0.011
PCB-1221 (AROCHLOR 1221)	PEST/PCB	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8082	07/24/2002	0.0028	U		
PCB-1221 (AROCHLOR 1221)	PEST/PCB	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8082	07/24/2002	0.0028	U	0.0028	0.01
PCB-1221 (AROCHLOR 1221)	PEST/PCB	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8082	07/24/2002	0.0027	U	0.0027	0.01
PCB-1221 (AROCHLOR 1221)	PEST/PCB	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8082	08/20/2002	0.00517	U	0.00517	0.022
PCB-1221 (AROCHLOR 1221)	PEST/PCB	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8082	08/20/2002	0.00469	U	0.00469	0.0199
PCB-1221 (AROCHLOR 1221)	PEST/PCB	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8082	08/20/2002	0.00443	U		
PCB-1221 (AROCHLOR 1221)	PEST/PCB	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8082	08/20/2002	0.00467	U	0.00467	0.0198

TABLE A-2

Database Output of Soil Samples at AVMA Retained After Evaluation [a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
PCB-1221 (AROCHLOR 1221)	PEST/PCB	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8082	08/22/2002	0.0917	U	0.0917	0.39
PCB-1221 (AROCHLOR 1221)	PEST/PCB	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8082	08/21/2002	0.00453	U	0.00453	0.0192
PCB-1221 (AROCHLOR 1221)	PEST/PCB	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8082	01/23/2001	0.011	U	0.011	0.021
PCB-1221 (AROCHLOR 1221)	PEST/PCB	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8082	01/25/2001	0.01	U		
PCB-1232 (AROCHLOR 1232)	PEST/PCB	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8082	08/21/2002	0.00391	U		
PCB-1232 (AROCHLOR 1232)	PEST/PCB	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8082	07/22/2002	0.0031	U	0.0031	0.011
PCB-1232 (AROCHLOR 1232)	PEST/PCB	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8082	07/22/2002	0.0027	U	0.0027	0.01
PCB-1232 (AROCHLOR 1232)	PEST/PCB	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8082	07/22/2002	0.0028	U	0.0028	0.01
PCB-1232 (AROCHLOR 1232)	PEST/PCB	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8082	07/22/2002	0.0032	U	0.0032	0.012
PCB-1232 (AROCHLOR 1232)	PEST/PCB	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8082	07/23/2002	0.00289	U	0.00289	0.0108
PCB-1232 (AROCHLOR 1232)	PEST/PCB	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8082	07/23/2002	0.003	U	0.003	0.0112
PCB-1232 (AROCHLOR 1232)	PEST/PCB	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8082	07/24/2002	0.0029	U	0.0029	0.011
PCB-1232 (AROCHLOR 1232)	PEST/PCB	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8082	07/24/2002	0.0028	U		
PCB-1232 (AROCHLOR 1232)	PEST/PCB	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8082	07/24/2002	0.0028	U	0.0028	0.01
PCB-1232 (AROCHLOR 1232)	PEST/PCB	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8082	07/24/2002	0.0027	U	0.0027	0.01
PCB-1232 (AROCHLOR 1232)	PEST/PCB	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8082	08/20/2002	0.00413	U	0.00413	0.011
PCB-1232 (AROCHLOR 1232)	PEST/PCB	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8082	08/20/2002	0.00374	U	0.00374	0.00996
PCB-1232 (AROCHLOR 1232)	PEST/PCB	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8082	08/20/2002	0.00353	U		
PCB-1232 (AROCHLOR 1232)	PEST/PCB	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8082	08/20/2002	0.00373	U	0.00373	0.00992
PCB-1232 (AROCHLOR 1232)	PEST/PCB	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8082	08/22/2002	0.0732	U	0.0732	0.195
PCB-1232 (AROCHLOR 1232)	PEST/PCB	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8082	08/21/2002	0.00361	U	0.00361	0.00962
PCB-1232 (AROCHLOR 1232)	PEST/PCB	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8082	01/23/2001	0.007	U	0.007	0.011
PCB-1232 (AROCHLOR 1232)	PEST/PCB	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8082	01/25/2001	0.0068	U		
PCB-1242 (AROCHLOR 1242)	PEST/PCB	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8082	08/21/2002	0.00209	U		
PCB-1242 (AROCHLOR 1242)	PEST/PCB	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8082	07/22/2002	0.0031	U	0.0031	0.011
PCB-1242 (AROCHLOR 1242)	PEST/PCB	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8082	07/22/2002	0.0027	U	0.0027	0.01
PCB-1242 (AROCHLOR 1242)	PEST/PCB	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8082	07/22/2002	0.0028	U	0.0028	0.01
PCB-1242 (AROCHLOR 1242)	PEST/PCB	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8082	07/22/2002	0.0032	U	0.0032	0.012
PCB-1242 (AROCHLOR 1242)	PEST/PCB	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8082	07/23/2002	0.00289	U	0.00289	0.0108
PCB-1242 (AROCHLOR 1242)	PEST/PCB	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8082	07/23/2002	0.003	U	0.003	0.0112
PCB-1242 (AROCHLOR 1242)	PEST/PCB	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8082	07/24/2002	0.0029	U	0.0029	0.011
PCB-1242 (AROCHLOR 1242)	PEST/PCB	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8082	07/24/2002	0.0028	U		
PCB-1242 (AROCHLOR 1242)	PEST/PCB	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8082	07/24/2002	0.0028	U	0.0028	0.01
PCB-1242 (AROCHLOR 1242)	PEST/PCB	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8082	07/24/2002	0.0027	U	0.0027	0.01
PCB-1242 (AROCHLOR 1242)	PEST/PCB	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8082	08/20/2002	0.00221	U	0.00221	0.011
PCB-1242 (AROCHLOR 1242)	PEST/PCB	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8082	08/20/2002	0.002	U	0.002	0.00996
PCB-1242 (AROCHLOR 1242)	PEST/PCB	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8082	08/20/2002	0.00189	U		
PCB-1242 (AROCHLOR 1242)	PEST/PCB	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8082	08/20/2002	0.00199	U	0.00199	0.00992
PCB-1242 (AROCHLOR 1242)	PEST/PCB	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8082	08/22/2002	0.0391	U	0.0391	0.195
PCB-1242 (AROCHLOR 1242)	PEST/PCB	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8082	08/21/2002	0.00193	U	0.00193	0.00962
PCB-1242 (AROCHLOR 1242)	PEST/PCB	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8082	01/23/2001	0.0033	U	0.0033	0.011
PCB-1242 (AROCHLOR 1242)	PEST/PCB	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8082	01/25/2001	0.0032	U		
PCB-1248 (AROCHLOR 1248)	PEST/PCB	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8082	08/21/2002	0.00209	U		
PCB-1248 (AROCHLOR 1248)	PEST/PCB	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8082	07/22/2002	0.0031	U	0.0031	0.011
PCB-1248 (AROCHLOR 1248)	PEST/PCB	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8082	07/22/2002	0.0027	U	0.0027	0.01
PCB-1248 (AROCHLOR 1248)	PEST/PCB	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8082	07/22/2002	0.0028	U	0.0028	0.01
PCB-1248 (AROCHLOR 1248)	PEST/PCB	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8082	07/22/2002	0.0032	U	0.0032	0.012
PCB-1248 (AROCHLOR 1248)	PEST/PCB	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8082	07/23/2002	0.00289	U	0.00289	0.0108
PCB-1248 (AROCHLOR 1248)	PEST/PCB	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8082	07/23/2002	0.003	U	0.003	0.0112
PCB-1248 (AROCHLOR 1248)	PEST/PCB	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8082	07/24/2002	0.0029	U	0.0029	0.011
PCB-1248 (AROCHLOR 1248)	PEST/PCB	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8082	07/24/2002	0.0028	U		

TABLE A-2

Database Output of Soil Samples at AVMA Retained After Evaluation [a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
PCB-1248 (AROCHLOR 1248)	PEST/PCB	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8082	07/24/2002	0.0028	U	0.0028	0.01
PCB-1248 (AROCHLOR 1248)	PEST/PCB	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8082	07/24/2002	0.0027	U	0.0027	0.01
PCB-1248 (AROCHLOR 1248)	PEST/PCB	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8082	08/20/2002	0.00221	U	0.00221	0.011
PCB-1248 (AROCHLOR 1248)	PEST/PCB	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8082	08/20/2002	0.002	U	0.002	0.00996
PCB-1248 (AROCHLOR 1248)	PEST/PCB	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8082	08/20/2002	0.00189	U		
PCB-1248 (AROCHLOR 1248)	PEST/PCB	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8082	08/20/2002	0.00199	U	0.00199	0.00992
PCB-1248 (AROCHLOR 1248)	PEST/PCB	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8082	08/22/2002	0.0391	U	0.0391	0.195
PCB-1248 (AROCHLOR 1248)	PEST/PCB	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8082	08/21/2002	0.00193	U	0.00193	0.00962
PCB-1248 (AROCHLOR 1248)	PEST/PCB	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8082	01/23/2001	0.0026	U	0.0026	0.011
PCB-1248 (AROCHLOR 1248)	PEST/PCB	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8082	01/25/2001	0.0025	U		
PCB-1254 (AROCHLOR 1254)	PEST/PCB	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8082	08/21/2002	0.00162	U		
PCB-1254 (AROCHLOR 1254)	PEST/PCB	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8082	07/22/2002	0.0031	U	0.0031	0.011
PCB-1254 (AROCHLOR 1254)	PEST/PCB	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8082	07/22/2002	0.0027	U	0.0027	0.01
PCB-1254 (AROCHLOR 1254)	PEST/PCB	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8082	07/22/2002	0.0028	U	0.0028	0.01
PCB-1254 (AROCHLOR 1254)	PEST/PCB	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8082	07/22/2002	0.0032	U	0.0032	0.012
PCB-1254 (AROCHLOR 1254)	PEST/PCB	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8082	07/23/2002	0.00289	U	0.00289	0.0108
PCB-1254 (AROCHLOR 1254)	PEST/PCB	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8082	07/23/2002	0.003	U	0.003	0.0112
PCB-1254 (AROCHLOR 1254)	PEST/PCB	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8082	07/24/2002	0.0029	U	0.0029	0.011
PCB-1254 (AROCHLOR 1254)	PEST/PCB	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8082	07/24/2002	0.0028	U		
PCB-1254 (AROCHLOR 1254)	PEST/PCB	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8082	07/24/2002	0.0028	U	0.0028	0.01
PCB-1254 (AROCHLOR 1254)	PEST/PCB	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8082	07/24/2002	0.0027	U	0.0027	0.01
PCB-1254 (AROCHLOR 1254)	PEST/PCB	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8082	08/20/2002	0.00171	U	0.00171	0.011
PCB-1254 (AROCHLOR 1254)	PEST/PCB	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8082	08/20/2002	0.00155	U	0.00155	0.00996
PCB-1254 (AROCHLOR 1254)	PEST/PCB	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8082	08/20/2002	0.00146	U		
PCB-1254 (AROCHLOR 1254)	PEST/PCB	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8082	08/20/2002	0.00154	U	0.00154	0.00992
PCB-1254 (AROCHLOR 1254)	PEST/PCB	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8082	08/22/2002	0.0303	U	0.0303	0.195
PCB-1254 (AROCHLOR 1254)	PEST/PCB	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8082	08/21/2002	0.0015	U	0.0015	0.00962
PCB-1254 (AROCHLOR 1254)	PEST/PCB	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8082	01/23/2001	0.0034	U	0.0034	0.011
PCB-1254 (AROCHLOR 1254)	PEST/PCB	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8082	01/25/2001	0.0033	U		
PCB-1260 (AROCHLOR 1260)	PEST/PCB	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8082	08/21/2002	0.00162	U		
PCB-1260 (AROCHLOR 1260)	PEST/PCB	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8082	07/22/2002	0.0028	U	0.0028	0.011
PCB-1260 (AROCHLOR 1260)	PEST/PCB	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8082	07/22/2002	0.0025	U	0.0025	0.01
PCB-1260 (AROCHLOR 1260)	PEST/PCB	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8082	07/22/2002	0.0025	U	0.0025	0.01
PCB-1260 (AROCHLOR 1260)	PEST/PCB	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8082	07/22/2002	0.0029	U	0.0029	0.012
PCB-1260 (AROCHLOR 1260)	PEST/PCB	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8082	07/23/2002	0.00259	U	0.00259	0.0108
PCB-1260 (AROCHLOR 1260)	PEST/PCB	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8082	07/23/2002	0.00269	U	0.00269	0.0112
PCB-1260 (AROCHLOR 1260)	PEST/PCB	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8082	07/24/2002	0.0026	UJ	0.0026	0.011
PCB-1260 (AROCHLOR 1260)	PEST/PCB	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8082	07/24/2002	0.0025	UJ		
PCB-1260 (AROCHLOR 1260)	PEST/PCB	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8082	07/24/2002	0.0025	UJ	0.0025	0.01
PCB-1260 (AROCHLOR 1260)	PEST/PCB	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8082	07/24/2002	0.0024	UJ	0.0024	0.01
PCB-1260 (AROCHLOR 1260)	PEST/PCB	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8082	08/20/2002	0.00171	U	0.00171	0.011
PCB-1260 (AROCHLOR 1260)	PEST/PCB	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8082	08/20/2002	0.00155	U	0.00155	0.00996
PCB-1260 (AROCHLOR 1260)	PEST/PCB	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8082	08/20/2002	0.00146	U		
PCB-1260 (AROCHLOR 1260)	PEST/PCB	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8082	08/20/2002	0.00154	U	0.00154	0.00992
PCB-1260 (AROCHLOR 1260)	PEST/PCB	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8082	08/22/2002	0.0303	U	0.0303	0.195
PCB-1260 (AROCHLOR 1260)	PEST/PCB	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8082	08/21/2002	0.0015	U	0.0015	0.00962
PCB-1260 (AROCHLOR 1260)	PEST/PCB	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8082	01/23/2001	0.0035	U	0.0035	0.011
PCB-1260 (AROCHLOR 1260)	PEST/PCB	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8082	01/25/2001	0.0035	U		
P-CYMENE (p-ISOPROPYLTOLUENE)	VOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8260B	08/21/2002	0.0011	U		
P-CYMENE (p-ISOPROPYLTOLUENE)	VOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8260B	05/12/2003	0.0035	U	0.0035	0.01
P-CYMENE (p-ISOPROPYLTOLUENE)	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8260B	07/22/2002	0.0035	U	0.0035	0.016

TABLE A-2

Database Output of Soil Samples at AVMA Retained After Evaluation [a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
P-CYMENE (p-ISOPROPYLTOLUENE)	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.0015	U	0.0015	0.0069
P-CYMENE (p-ISOPROPYLTOLUENE)	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.002	U	0.002	0.009
P-CYMENE (p-ISOPROPYLTOLUENE)	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.003	U	0.003	0.014
P-CYMENE (p-ISOPROPYLTOLUENE)	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.036	J	0.0022	0.0098
P-CYMENE (p-ISOPROPYLTOLUENE)	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.033	J	0.0021	0.0094
P-CYMENE (p-ISOPROPYLTOLUENE)	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.0027	U	0.0027	0.012
P-CYMENE (p-ISOPROPYLTOLUENE)	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.0026	U		
P-CYMENE (p-ISOPROPYLTOLUENE)	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.0028	U	0.0028	0.013
P-CYMENE (p-ISOPROPYLTOLUENE)	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.0016	U	0.0016	0.0072
P-CYMENE (p-ISOPROPYLTOLUENE)	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.001	U	0.001	0.0047
P-CYMENE (p-ISOPROPYLTOLUENE)	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.001	U		
P-CYMENE (p-ISOPROPYLTOLUENE)	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.00097	U	0.00097	0.0044
P-CYMENE (p-ISOPROPYLTOLUENE)	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.014	=	0.0016	0.0075
P-CYMENE (p-ISOPROPYLTOLUENE)	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.0016	U	0.0016	0.0072
P-CYMENE (p-ISOPROPYLTOLUENE)	VOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8260B	01/23/2001	0.00023	U	0.00023	0.00045
P-CYMENE (p-ISOPROPYLTOLUENE)	VOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8260B	01/25/2001	0.00027	U		
PENTACHLOROPHENOL	SVOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8270C	08/21/2002	0.026	U		
PENTACHLOROPHENOL	SVOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8270C	05/12/2003	0.024	U	0.024	0.17
PENTACHLOROPHENOL	SVOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8270C	07/22/2002	0.028	U	0.028	0.19
PENTACHLOROPHENOL	SVOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8270C	07/22/2002	0.025	U	0.025	0.17
PENTACHLOROPHENOL	SVOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8270C	07/22/2002	0.026	U	0.026	0.17
PENTACHLOROPHENOL	SVOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8270C	07/22/2002	0.059	UJ	0.059	0.4
PENTACHLOROPHENOL	SVOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8270C	07/23/2002	0.026	U	0.026	0.18
PENTACHLOROPHENOL	SVOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8270C	07/23/2002	0.027	U	0.027	0.19
PENTACHLOROPHENOL	SVOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8270C	07/24/2002	0.026	U	0.026	0.18
PENTACHLOROPHENOL	SVOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8270C	07/24/2002	0.025	U		
PENTACHLOROPHENOL	SVOC	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8270C	07/24/2002	0.025	U	0.025	0.17
PENTACHLOROPHENOL	SVOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8270C	07/24/2002	0.025	U	0.025	0.17
PENTACHLOROPHENOL	SVOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8270C	08/20/2002	0.03	UJ	0.03	0.21
PENTACHLOROPHENOL	SVOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8270C	08/20/2002	0.025	UJ	0.025	0.17
PENTACHLOROPHENOL	SVOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8270C	08/20/2002	0.025	UJ		
PENTACHLOROPHENOL	SVOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8270C	08/20/2002	0.026	UJ	0.026	0.17
PENTACHLOROPHENOL	SVOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8270C	08/22/2002	0.15	U	0.15	0.99
PENTACHLOROPHENOL	SVOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8270C	08/21/2002	0.025	U	0.025	0.17
PENTACHLOROPHENOL	SVOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8270C	01/23/2001	0.0047	U	0.0047	0.035
PENTACHLOROPHENOL	SVOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8270C	01/25/2001	0.0048	U		
PHENANTHRENE	SVOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8270C	08/21/2002	0.038	U		
PHENANTHRENE	SVOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	PAHSIM	05/12/2003	0.000296	U	0.000296	0.00176
PHENANTHRENE	SVOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8270C	07/22/2002	4.2	=	0.041	0.19
PHENANTHRENE	SVOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8270C	07/22/2002	0.34	=	0.037	0.17
PHENANTHRENE	SVOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8270C	07/22/2002	0.36	=	0.037	0.17
PHENANTHRENE	SVOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8270C	07/22/2002	0.086	U	0.086	0.4
PHENANTHRENE	SVOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8270C	07/23/2002	0.28	=	0.038	0.18
PHENANTHRENE	SVOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8270C	07/23/2002	0.24	=	0.04	0.19
PHENANTHRENE	SVOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8270C	07/24/2002	0.038	U	0.038	0.18
PHENANTHRENE	SVOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8270C	07/24/2002	0.037	U		
PHENANTHRENE	SVOC	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8270C	07/24/2002	0.037	U	0.037	0.17
PHENANTHRENE	SVOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8270C	07/24/2002	0.036	U	0.036	0.17
PHENANTHRENE	SVOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8270C	08/20/2002	0.044	U	0.044	0.21
PHENANTHRENE	SVOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8270C	08/20/2002	0.037	U	0.037	0.17
PHENANTHRENE	SVOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8270C	08/20/2002	0.037	U		

TABLE A-2

Database Output of Soil Samples at AVMA Retained After Evaluation [a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
PHENANTHRENE	SVOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8270C	08/20/2002	0.037	U	0.037	0.17
PHENANTHRENE	SVOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8270C	08/22/2002	0.56	J	0.21	0.99
PHENANTHRENE	SVOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8270C	08/21/2002	0.037	U	0.037	0.17
PHENANTHRENE	SVOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8270C	01/23/2001	11	CJ	0.0023	0.007
PHENANTHRENE	SVOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8270C	01/25/2001	0.16	=		
PHENOL	SVOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8270C	08/21/2002	0.036	U		
PHENOL	SVOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8270C	05/12/2003	0.029	U	0.029	0.17
PHENOL	SVOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8270C	07/22/2002	0.039	U	0.039	0.19
PHENOL	SVOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8270C	07/22/2002	0.034	U	0.034	0.17
PHENOL	SVOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8270C	07/22/2002	0.035	U	0.035	0.17
PHENOL	SVOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8270C	07/22/2002	0.081	UJ	0.081	0.4
PHENOL	SVOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8270C	07/23/2002	0.036	U	0.036	0.18
PHENOL	SVOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8270C	07/23/2002	0.037	U	0.037	0.19
PHENOL	SVOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8270C	07/24/2002	0.036	U	0.036	0.18
PHENOL	SVOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8270C	07/24/2002	0.035	U		
PHENOL	SVOC	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8270C	07/24/2002	0.035	U	0.035	0.17
PHENOL	SVOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8270C	07/24/2002	0.034	U	0.034	0.17
PHENOL	SVOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8270C	08/20/2002	0.041	U	0.041	0.21
PHENOL	SVOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8270C	08/20/2002	0.035	U	0.035	0.17
PHENOL	SVOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8270C	08/20/2002	0.035	U		
PHENOL	SVOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8270C	08/20/2002	0.035	U	0.035	0.17
PHENOL	SVOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8270C	08/22/2002	0.2	U	0.2	0.99
PHENOL	SVOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8270C	08/21/2002	0.035	U	0.035	0.17
PHENOL	SVOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8270C	01/23/2001	0.018	J	0.013	0.035
PHENOL	SVOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8270C	01/25/2001	0.013	U		
POTASSIUM	METAL	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW6010B	08/21/2002	835	=		
POTASSIUM	METAL	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW6010B	07/22/2002	990	=	26	100
POTASSIUM	METAL	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW6010B	07/22/2002	810	=	22	86
POTASSIUM	METAL	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW6010B	07/22/2002	960	=	25	95
POTASSIUM	METAL	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW6010B	07/22/2002	700	=	22	86
POTASSIUM	METAL	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW6010B	07/23/2002	840	=	28	110
POTASSIUM	METAL	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW6010B	07/23/2002	830	=	20	78
POTASSIUM	METAL	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW6010B	07/24/2002	740	=	26	99
POTASSIUM	METAL	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW6010B	07/24/2002	935	=		
POTASSIUM	METAL	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW6010B	07/24/2002	920	=	25	97
POTASSIUM	METAL	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW6010B	07/24/2002	760	=	16	62
POTASSIUM	METAL	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW6010B	08/20/2002	920	=	30.6	118
POTASSIUM	METAL	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW6010B	08/20/2002	1170	=	16.5	63.5
POTASSIUM	METAL	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW6010B	08/20/2002	1180	=		
POTASSIUM	METAL	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW6010B	08/20/2002	826	=	24.7	95
POTASSIUM	METAL	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW6010B	08/22/2002	940	=	22	83
POTASSIUM	METAL	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW6010B	08/21/2002	880	=	24	91
PYRENE	SVOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8270C	08/21/2002	0.036	U		
PYRENE	SVOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	PAHSIM	05/12/2003	0.000372	U	0.000372	0.00207
PYRENE	SVOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8270C	07/22/2002	3.1	=	0.039	0.19
PYRENE	SVOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8270C	07/22/2002	0.24	=	0.034	0.17
PYRENE	SVOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8270C	07/22/2002	0.42	=	0.035	0.17
PYRENE	SVOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8270C	07/22/2002	0.081	U	0.081	0.4
PYRENE	SVOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8270C	07/23/2002	0.36	=	0.036	0.18
PYRENE	SVOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8270C	07/23/2002	0.14	J	0.037	0.19
PYRENE	SVOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8270C	07/24/2002	0.036	U	0.036	0.18

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Database Output of Soil Samples at AVMA Retained After Evaluation [a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
PYRENE	SVOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8270C	07/24/2002	0.035	U		
PYRENE	SVOC	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8270C	07/24/2002	0.035	U	0.035	0.17
PYRENE	SVOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8270C	07/24/2002	0.034	U	0.034	0.17
PYRENE	SVOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8270C	08/20/2002	0.041	U	0.041	0.21
PYRENE	SVOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8270C	08/20/2002	0.035	U	0.035	0.17
PYRENE	SVOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8270C	08/20/2002	0.035	U		
PYRENE	SVOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8270C	08/20/2002	0.035	U	0.035	0.17
PYRENE	SVOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8270C	08/22/2002	0.59	J	0.2	0.99
PYRENE	SVOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8270C	08/21/2002	0.035	U	0.035	0.17
PYRENE	SVOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8270C	01/23/2001	5.1	CJ	0.002	0.007
PYRENE	SVOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8270C	01/25/2001	0.075	=		
RESIDUAL RANGE ORGANICS	TPH	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	AK103	05/12/2003	10.8	U	1.27	8.27
RESIDUAL RANGE ORGANICS	TPH	Unknown	00FRAW10SL	AP-4146	4.5-6	AK103	01/23/2001	490	BI	18	36
RESIDUAL RANGE ORGANICS	TPH	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	AK103	01/25/2001	1450	=		
SEC-BUTYLBENZENE	VOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8260B	08/21/2002	0.00094	U		
SEC-BUTYLBENZENE	VOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8260B	05/12/2003	0.0031	U	0.0031	0.0093
SEC-BUTYLBENZENE	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8260B	07/22/2002	0.003	U	0.003	0.016
SEC-BUTYLBENZENE	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.0013	U	0.0013	0.0069
SEC-BUTYLBENZENE	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.0016	U	0.0016	0.009
SEC-BUTYLBENZENE	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.0025	U	0.0025	0.014
SEC-BUTYLBENZENE	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.0018	U	0.0018	0.0098
SEC-BUTYLBENZENE	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.0017	U	0.0017	0.0094
SEC-BUTYLBENZENE	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.0022	U	0.0022	0.012
SEC-BUTYLBENZENE	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.0022	U		
SEC-BUTYLBENZENE	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.0023	U	0.0023	0.013
SEC-BUTYLBENZENE	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.0013	U	0.0013	0.0072
SEC-BUTYLBENZENE	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.00086	U	0.00086	0.0047
SEC-BUTYLBENZENE	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.00084	U		
SEC-BUTYLBENZENE	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.00081	U	0.00081	0.0044
SEC-BUTYLBENZENE	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.0014	U	0.0014	0.0075
SEC-BUTYLBENZENE	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.0013	U	0.0013	0.0072
SEC-BUTYLBENZENE	VOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8260B	01/23/2001	0.00023	U	0.00023	0.00045
SEC-BUTYLBENZENE	VOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8260B	01/25/2001	0.00027	U		
SELENIUM	METAL	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW6010B	08/21/2002	6	J		
SELENIUM	METAL	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW6010B	07/22/2002	11	B	1.6	10
SELENIUM	METAL	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW6010B	07/22/2002	6.2	JB	1.4	8.6
SELENIUM	METAL	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW6010B	07/22/2002	7.2	JB	1.5	9.5
SELENIUM	METAL	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW6010B	07/22/2002	6.6	JB	1.4	8.6
SELENIUM	METAL	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW6010B	07/23/2002	4.8	JB	1.7	11
SELENIUM	METAL	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW6010B	07/23/2002	5.5	JB	1.3	7.8
SELENIUM	METAL	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW6010B	07/24/2002	3.6	J	1.6	9.9
SELENIUM	METAL	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW6010B	07/24/2002	2.6	J		
SELENIUM	METAL	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW6010B	07/24/2002	1.6	U	1.6	9.7
SELENIUM	METAL	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW6010B	07/24/2002	3.2	J	0.99	6.2
SELENIUM	METAL	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW6010B	08/20/2002	8.34	J	1.88	11.8
SELENIUM	METAL	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW6010B	08/20/2002	6.81	=	1.02	6.35
SELENIUM	METAL	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW6010B	08/20/2002	6.93	J		
SELENIUM	METAL	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW6010B	08/20/2002	5.24	J	1.52	9.5
SELENIUM	METAL	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW6010B	08/22/2002	1.3	U	1.3	8.3
SELENIUM	METAL	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW6010B	08/21/2002	6.1	J	1.5	9.1
SELENIUM	METAL	Unknown	00FRAW10SL	AP-4146	4.5-6	SW6010	01/23/2001	2.5	U	2.5	9.3

TABLE A-2

Database Output of Soil Samples at AVMA Retained After Evaluation [a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
SELENIUM	METAL	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW6010	01/25/2001	2.5	U		
SILVER	METAL	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW6010B	08/21/2002	0.29	U		
SILVER	METAL	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW6010B	07/22/2002	0.47	U	0.47	1.5
SILVER	METAL	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW6010B	07/22/2002	0.4	U	0.4	1.3
SILVER	METAL	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW6010B	07/22/2002	0.44	U	0.44	1.4
SILVER	METAL	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW6010B	07/22/2002	0.4	U	0.4	1.3
SILVER	METAL	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW6010B	07/23/2002	0.49	U	0.49	1.6
SILVER	METAL	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW6010B	07/23/2002	0.36	U	0.36	1.2
SILVER	METAL	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW6010B	07/24/2002	0.45	U	0.45	1.5
SILVER	METAL	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW6010B	07/24/2002	0.45	U		
SILVER	METAL	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW6010B	07/24/2002	0.45	U	0.45	1.5
SILVER	METAL	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW6010B	07/24/2002	0.28	U	0.28	0.92
SILVER	METAL	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW6010B	08/20/2002	0.541	U	0.541	1.76
SILVER	METAL	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW6010B	08/20/2002	0.292	U	0.292	0.952
SILVER	METAL	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW6010B	08/20/2002	0.384	U		
SILVER	METAL	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW6010B	08/20/2002	0.437	U	0.437	1.42
SILVER	METAL	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW6010B	08/22/2002	0.38	U	0.38	1.3
SILVER	METAL	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW6010B	08/21/2002	0.42	U	0.42	1.4
SILVER	METAL	Unknown	00FRAW10SL	AP-4146	4.5-6	SW6010	01/23/2001	0.35	U	0.35	1.9
SILVER	METAL	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW6010	01/25/2001	0.35	U		
SODIUM	METAL	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW6010B	08/21/2002	107.5	J		
SODIUM	METAL	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW6010B	07/22/2002	310	=	32	300
SODIUM	METAL	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW6010B	07/22/2002	140	J	27	260
SODIUM	METAL	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW6010B	07/22/2002	250	J	30	290
SODIUM	METAL	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW6010B	07/22/2002	150	J	27	260
SODIUM	METAL	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW6010B	07/23/2002	210	J	33	320
SODIUM	METAL	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW6010B	07/23/2002	180	J	24	230
SODIUM	METAL	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW6010B	07/24/2002	150	J	31	300
SODIUM	METAL	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW6010B	07/24/2002	102	J		
SODIUM	METAL	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW6010B	07/24/2002	100	J	30	290
SODIUM	METAL	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW6010B	07/24/2002	82	J	19	180
SODIUM	METAL	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW6010B	08/20/2002	132	J	36.4	353
SODIUM	METAL	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW6010B	08/20/2002	110	J	19.7	190
SODIUM	METAL	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW6010B	08/20/2002	118	J		
SODIUM	METAL	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW6010B	08/20/2002	112	J	29.4	285
SODIUM	METAL	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW6010B	08/22/2002	140	J	26	250
SODIUM	METAL	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW6010B	08/21/2002	99	J	28	270
STYRENE	VOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8260B	08/21/2002	0.0016	U		
STYRENE	VOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8260B	05/12/2003	0.0027	U	0.0027	0.0081
STYRENE	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8260B	07/22/2002	0.0051	U	0.0051	0.016
STYRENE	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.011	=	0.0022	0.0069
STYRENE	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.0029	U	0.0029	0.009
STYRENE	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.0044	U	0.0044	0.014
STYRENE	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.0032	U	0.0032	0.0098
STYRENE	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.003	U	0.003	0.0094
STYRENE	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.0039	U	0.0039	0.012
STYRENE	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.0037	U		
STYRENE	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.0041	U	0.0041	0.013
STYRENE	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.0023	U	0.0023	0.0072
STYRENE	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.0015	U	0.0015	0.0047
STYRENE	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.0015	U		

TABLE A-2

Database Output of Soil Samples at AVMA Retained After Evaluation [a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
STYRENE	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.0014	U	0.0014	0.0044
STYRENE	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.0024	U	0.0024	0.0075
STYRENE	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.0023	U	0.0023	0.0072
STYRENE	VOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8260B	01/23/2001	0.00023	U	0.00023	0.00045
STYRENE	VOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8260B	01/25/2001	0.00027	U		
t-BUTYLBENZENE	VOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8260B	08/21/2002	0.0024	U		
t-BUTYLBENZENE	VOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8260B	05/12/2003	0.003	U	0.003	0.009
t-BUTYLBENZENE	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8260B	07/22/2002	0.0074	U	0.0074	0.022
t-BUTYLBENZENE	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.0032	U	0.0032	0.0095
t-BUTYLBENZENE	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.0041	U	0.0041	0.012
t-BUTYLBENZENE	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.0063	U	0.0063	0.019
t-BUTYLBENZENE	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.0045	U	0.0045	0.014
t-BUTYLBENZENE	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.0043	U	0.0043	0.013
t-BUTYLBENZENE	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.0056	U	0.0056	0.017
t-BUTYLBENZENE	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.0054	U		
t-BUTYLBENZENE	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.0059	U	0.0059	0.018
t-BUTYLBENZENE	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.0033	U	0.0033	0.01
t-BUTYLBENZENE	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.0022	U	0.0022	0.0065
t-BUTYLBENZENE	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.0021	U		
t-BUTYLBENZENE	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.002	U	0.002	0.0061
t-BUTYLBENZENE	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.0034	U	0.0034	0.01
t-BUTYLBENZENE	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.0033	U	0.0033	0.0099
t-BUTYLBENZENE	VOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8260B	01/23/2001	0.00023	U	0.00023	0.00045
t-BUTYLBENZENE	VOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8260B	01/25/2001	0.00027	U		
tert-BUTYL METHYL ETHER	VOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8260B	08/21/2002	0.0012	U		
tert-BUTYL METHYL ETHER	VOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8260B	05/12/2003	0.017	=	0.0035	0.01
tert-BUTYL METHYL ETHER	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8260B	07/22/2002	0.0039	U	0.0039	0.016
tert-BUTYL METHYL ETHER	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.0016	U	0.0016	0.0069
tert-BUTYL METHYL ETHER	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.0021	U	0.0021	0.009
tert-BUTYL METHYL ETHER	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.0033	U	0.0033	0.014
tert-BUTYL METHYL ETHER	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.0024	U	0.0024	0.0098
tert-BUTYL METHYL ETHER	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.0023	U	0.0023	0.0094
tert-BUTYL METHYL ETHER	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.0029	U	0.0029	0.012
tert-BUTYL METHYL ETHER	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.0028	U		
tert-BUTYL METHYL ETHER	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.0031	U	0.0031	0.013
tert-BUTYL METHYL ETHER	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.0017	U	0.0017	0.0072
tert-BUTYL METHYL ETHER	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.0011	U	0.0011	0.0047
tert-BUTYL METHYL ETHER	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.0011	U		
tert-BUTYL METHYL ETHER	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.0011	U	0.0011	0.0044
tert-BUTYL METHYL ETHER	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.0018	U	0.0018	0.0075
tert-BUTYL METHYL ETHER	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.0017	U	0.0017	0.0072
TETRACHLOROETHYLENE(PCE)	VOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8260B	08/21/2002	0.0012	U		
TETRACHLOROETHYLENE(PCE)	VOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8260B	05/12/2003	0.25	=	0.0044	0.013
TETRACHLOROETHYLENE(PCE)	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8260B	07/22/2002	0.0039	U	0.0039	0.016
TETRACHLOROETHYLENE(PCE)	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.0016	U	0.0016	0.0069
TETRACHLOROETHYLENE(PCE)	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.0021	U	0.0021	0.009
TETRACHLOROETHYLENE(PCE)	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.0033	U	0.0033	0.014
TETRACHLOROETHYLENE(PCE)	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.0024	U	0.0024	0.0098
TETRACHLOROETHYLENE(PCE)	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.53	=	0.0023	0.0094
TETRACHLOROETHYLENE(PCE)	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.0029	U	0.0029	0.012
TETRACHLOROETHYLENE(PCE)	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.014	J		

TABLE A-2

Database Output of Soil Samples at AVMA Retained After Evaluation [a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
TETRACHLOROETHYLENE(PCE)	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.0031	U	0.0031	0.013
TETRACHLOROETHYLENE(PCE)	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.0017	U	0.0017	0.0072
TETRACHLOROETHYLENE(PCE)	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.0011	U	0.0011	0.0047
TETRACHLOROETHYLENE(PCE)	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.0011	U		
TETRACHLOROETHYLENE(PCE)	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.0011	U	0.0011	0.0044
TETRACHLOROETHYLENE(PCE)	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.0018	U	0.0018	0.0075
TETRACHLOROETHYLENE(PCE)	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.0017	U	0.0017	0.0072
TETRACHLOROETHYLENE(PCE)	VOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8260B	01/23/2001	0.00023	U	0.00023	0.00045
TETRACHLOROETHYLENE(PCE)	VOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8260B	01/25/2001	0.00055	D		
THALLIUM	METAL	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW7841	08/21/2002	0.22	U		
THALLIUM	METAL	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW7841	07/22/2002	0.061	U	0.061	0.27
THALLIUM	METAL	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW7841	07/22/2002	0.056	U	0.056	0.25
THALLIUM	METAL	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW7841	07/22/2002	0.053	U	0.053	0.24
THALLIUM	METAL	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW7841	07/22/2002	0.063	U	0.063	0.28
THALLIUM	METAL	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW7841	07/23/2002	0.06	U	0.06	0.27
THALLIUM	METAL	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW7841	07/23/2002	0.055	U	0.055	0.24
THALLIUM	METAL	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW7841	07/24/2002	0.056	UJ	0.056	0.25
THALLIUM	METAL	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW7841	07/24/2002	0.049	UJ		
THALLIUM	METAL	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW7841	07/24/2002	0.054	UJ	0.054	0.24
THALLIUM	METAL	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW7841	07/24/2002	0.057	UJ	0.057	0.25
THALLIUM	METAL	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW7841	08/20/2002	0.312	U	0.312	1.39
THALLIUM	METAL	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW7841	08/20/2002	0.284	U	0.284	1.27
THALLIUM	METAL	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW7841	08/20/2002	0.262	U		
THALLIUM	METAL	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW7841	08/20/2002	0.283	U	0.283	1.27
THALLIUM	METAL	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW7841	08/22/2002	0.29	U	0.29	1.3
THALLIUM	METAL	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW7841	08/21/2002	0.27	J,GQ	0.24	1.1
TOLUENE	VOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8260B	08/21/2002	0.0026	U		
TOLUENE	VOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8260B	05/12/2003	0.0031	U	0.0031	0.0094
TOLUENE	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8260B	07/22/2002	0.008	U	0.008	0.024
TOLUENE	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.015	=	0.0034	0.01
TOLUENE	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.0097	J	0.0045	0.013
TOLUENE	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.0069	U	0.0069	0.021
TOLUENE	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.062	B	0.0049	0.015
TOLUENE	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.12	B	0.0047	0.014
TOLUENE	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.0061	UJ	0.0061	0.018
TOLUENE	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.031	JB		
TOLUENE	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.017	JB	0.0064	0.019
TOLUENE	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.0036	U	0.0036	0.011
TOLUENE	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.0023	U	0.0023	0.007
TOLUENE	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.0023	U		
TOLUENE	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.0052	JB	0.0022	0.0066
TOLUENE	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.0037	U	0.0037	0.011
TOLUENE	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.0036	U	0.0036	0.011
TOLUENE	VOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8260B	01/23/2001	0.00023	U	0.00023	0.00045
TOLUENE	VOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8260B	01/25/2001	0.00027	U		
TOTAL ORGANIC CARBON	CONV	Unknown	00FRAW10SL	AP-4146	4.5-6	SW9060	01/23/2001	8600	=	40	100
TOTAL ORGANIC CARBON	CONV	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW9060	01/25/2001	14500	=		
TOXAPHENE	PEST/PCB	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8081A	08/21/2002	0.00653	U		
TOXAPHENE	PEST/PCB	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8081A	07/22/2002	0.0057	U	0.0057	0.018
TOXAPHENE	PEST/PCB	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8081A	07/22/2002	0.0051	U	0.0051	0.016
TOXAPHENE	PEST/PCB	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8081A	07/22/2002	0.0052	U	0.0052	0.017

TABLE A-2

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Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
TOXAPHENE	PEST/PCB	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8081A	07/22/2002	0.006	U	0.006	0.019
TOXAPHENE	PEST/PCB	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8081A	07/23/2002	0.0053	U	0.0053	0.017
TOXAPHENE	PEST/PCB	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8081A	07/23/2002	0.0056	U	0.0056	0.018
TOXAPHENE	PEST/PCB	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8081A	07/24/2002	0.00536	U	0.00536	0.0173
TOXAPHENE	PEST/PCB	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8081A	07/24/2002	0.00513	U		
TOXAPHENE	PEST/PCB	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW8081A	07/24/2002	0.0051	U	0.0051	0.0165
TOXAPHENE	PEST/PCB	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8081A	07/24/2002	0.00506	U	0.00506	0.0163
TOXAPHENE	PEST/PCB	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8081A	08/20/2002	0.00689	U	0.00689	0.11
TOXAPHENE	PEST/PCB	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8081A	08/20/2002	0.00624	U	0.00624	0.0996
TOXAPHENE	PEST/PCB	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8081A	08/20/2002	0.00589	U		
TOXAPHENE	PEST/PCB	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8081A	08/20/2002	0.00622	U	0.00622	0.0992
TOXAPHENE	PEST/PCB	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8081A	08/22/2002	0.122	U	0.122	1.95
TOXAPHENE	PEST/PCB	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8081A	08/21/2002	0.00603	U	0.00603	0.0962
TOXAPHENE	PEST/PCB	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8081A	01/23/2001	0.013	U	0.013	0.11
TOXAPHENE	PEST/PCB	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8081A	01/25/2001	0.012	U		
trans-1,2-DICHLOROETHENE	VOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8260B	08/21/2002	0.0038	U		
trans-1,2-DICHLOROETHENE	VOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8260B	05/12/2003	0.0093	U	0.0093	0.028
trans-1,2-DICHLOROETHENE	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8260B	07/22/2002	0.012	U	0.012	0.036
trans-1,2-DICHLOROETHENE	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.0051	U	0.0051	0.015
trans-1,2-DICHLOROETHENE	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.0066	U	0.0066	0.02
trans-1,2-DICHLOROETHENE	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.01	U	0.01	0.031
trans-1,2-DICHLOROETHENE	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.0073	U	0.0073	0.022
trans-1,2-DICHLOROETHENE	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.007	U	0.007	0.021
trans-1,2-DICHLOROETHENE	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.009	U	0.009	0.027
trans-1,2-DICHLOROETHENE	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.0087	U		
trans-1,2-DICHLOROETHENE	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.0094	U	0.0094	0.028
trans-1,2-DICHLOROETHENE	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.0053	U	0.0053	0.016
trans-1,2-DICHLOROETHENE	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.0035	U	0.0035	0.01
trans-1,2-DICHLOROETHENE	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.0034	U		
trans-1,2-DICHLOROETHENE	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.0033	U	0.0033	0.0098
trans-1,2-DICHLOROETHENE	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.0055	U	0.0055	0.017
trans-1,2-DICHLOROETHENE	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.0053	U	0.0053	0.016
trans-1,2-DICHLOROETHENE	VOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8260B	01/23/2001	0.00023	U	0.00023	0.00045
trans-1,2-DICHLOROETHENE	VOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8260B	01/25/2001	0.00027	U		
trans-1,3-DICHLOROPROPENE	VOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8260B	08/21/2002	0.002	U		
trans-1,3-DICHLOROPROPENE	VOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8260B	05/12/2003	0.0014	U	0.0014	0.0079
trans-1,3-DICHLOROPROPENE	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8260B	07/22/2002	0.0064	U	0.0064	0.019
trans-1,3-DICHLOROPROPENE	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.0027	U	0.0027	0.0082
trans-1,3-DICHLOROPROPENE	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.0036	U	0.0036	0.011
trans-1,3-DICHLOROPROPENE	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.0055	U	0.0055	0.017
trans-1,3-DICHLOROPROPENE	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.0039	U	0.0039	0.012
trans-1,3-DICHLOROPROPENE	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.0038	U	0.0038	0.011
trans-1,3-DICHLOROPROPENE	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.0049	U	0.0049	0.015
trans-1,3-DICHLOROPROPENE	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.0047	U		
trans-1,3-DICHLOROPROPENE	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.0051	U	0.0051	0.015
trans-1,3-DICHLOROPROPENE	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.0029	U	0.0029	0.0087
trans-1,3-DICHLOROPROPENE	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.0019	U	0.0019	0.0056
trans-1,3-DICHLOROPROPENE	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.0018	U		
trans-1,3-DICHLOROPROPENE	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.0018	U	0.0018	0.0053
trans-1,3-DICHLOROPROPENE	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.003	U	0.003	0.009
trans-1,3-DICHLOROPROPENE	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.0029	U	0.0029	0.0086

TABLE A-2

Database Output of Soil Samples at AVMA Retained After Evaluation [a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
trans-1,3-DICHLOROPROPENE	VOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8260B	01/23/2001	0.00023	U	0.00023	0.00045
trans-1,3-DICHLOROPROPENE	VOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8260B	01/25/2001	0.00027	U		
trans-1,4-DICHLORO-2-BUTENE	VOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8260B	08/21/2002	0.0065	U		
trans-1,4-DICHLORO-2-BUTENE	VOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8260B	05/12/2003	0.031	U	0.031	0.094
trans-1,4-DICHLORO-2-BUTENE	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8260B	07/22/2002	0.02	U	0.02	0.061
trans-1,4-DICHLORO-2-BUTENE	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.0086	U	0.0086	0.026
trans-1,4-DICHLORO-2-BUTENE	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.011	U	0.011	0.034
trans-1,4-DICHLORO-2-BUTENE	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.017	U	0.017	0.052
trans-1,4-DICHLORO-2-BUTENE	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.012	U	0.012	0.037
trans-1,4-DICHLORO-2-BUTENE	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.012	U	0.012	0.036
trans-1,4-DICHLORO-2-BUTENE	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.015	U	0.015	0.046
trans-1,4-DICHLORO-2-BUTENE	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.015	U		
trans-1,4-DICHLORO-2-BUTENE	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.016	U	0.016	0.048
trans-1,4-DICHLORO-2-BUTENE	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.0091	U	0.0091	0.027
trans-1,4-DICHLORO-2-BUTENE	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.0059	U	0.0059	0.018
trans-1,4-DICHLORO-2-BUTENE	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.0058	U		
trans-1,4-DICHLORO-2-BUTENE	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.0055	U	0.0055	0.017
trans-1,4-DICHLORO-2-BUTENE	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.0094	U	0.0094	0.028
trans-1,4-DICHLORO-2-BUTENE	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.0091	U	0.0091	0.027
TRICHLOROETHYLENE (TCE)	VOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8260B	08/21/2002	0.0027	U		
TRICHLOROETHYLENE (TCE)	VOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8260B	05/12/2003	0.0066	J	0.0033	0.0099
TRICHLOROETHYLENE (TCE)	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8260B	07/22/2002	0.0084	U	0.0084	0.025
TRICHLOROETHYLENE (TCE)	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.0036	U	0.0036	0.011
TRICHLOROETHYLENE (TCE)	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.0047	U	0.0047	0.014
TRICHLOROETHYLENE (TCE)	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.0072	U	0.0072	0.021
TRICHLOROETHYLENE (TCE)	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.0051	UJ	0.0051	0.015
TRICHLOROETHYLENE (TCE)	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.027	J	0.0049	0.015
TRICHLOROETHYLENE (TCE)	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.0063	UJ	0.0063	0.019
TRICHLOROETHYLENE (TCE)	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.0061	UJ		
TRICHLOROETHYLENE (TCE)	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.0066	UJ	0.0066	0.02
TRICHLOROETHYLENE (TCE)	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.0038	U	0.0038	0.011
TRICHLOROETHYLENE (TCE)	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.0024	U	0.0024	0.0073
TRICHLOROETHYLENE (TCE)	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.0024	U		
TRICHLOROETHYLENE (TCE)	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.0023	U	0.0023	0.0069
TRICHLOROETHYLENE (TCE)	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.0039	U	0.0039	0.012
TRICHLOROETHYLENE (TCE)	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.0037	U	0.0037	0.011
TRICHLOROETHYLENE (TCE)	VOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8260B	01/23/2001	0.00058	=	0.00023	0.00045
TRICHLOROETHYLENE (TCE)	VOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8260B	01/25/2001	0.00033	J		
TRICHLOROFLUOROMETHANE	VOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8260B	08/21/2002	0.0035	U		
TRICHLOROFLUOROMETHANE	VOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8260B	05/12/2003	0.01	U	0.01	0.03
TRICHLOROFLUOROMETHANE	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8260B	07/22/2002	0.011	U	0.011	0.033
TRICHLOROFLUOROMETHANE	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.0047	U	0.0047	0.014
TRICHLOROFLUOROMETHANE	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.0061	U	0.0061	0.018
TRICHLOROFLUOROMETHANE	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.0094	U	0.0094	0.028
TRICHLOROFLUOROMETHANE	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.0067	U	0.0067	0.02
TRICHLOROFLUOROMETHANE	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.0064	U	0.0064	0.019
TRICHLOROFLUOROMETHANE	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.0083	UJ	0.0083	0.025
TRICHLOROFLUOROMETHANE	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.008	UJ		
TRICHLOROFLUOROMETHANE	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.0087	UJ	0.0087	0.026
TRICHLOROFLUOROMETHANE	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.0049	U	0.0049	0.015
TRICHLOROFLUOROMETHANE	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.0032	U	0.0032	0.0095

TABLE A-2

Database Output of Soil Samples at AVMA Retained After Evaluation [a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
TRICHLOROFLUOROMETHANE	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.0031	U		
TRICHLOROFLUOROMETHANE	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.003	U	0.003	0.009
TRICHLOROFLUOROMETHANE	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.0051	U	0.0051	0.015
TRICHLOROFLUOROMETHANE	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.0049	U	0.0049	0.015
TRICHLOROFLUOROMETHANE	VOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8260B	01/23/2001	0.00023	U	0.00023	0.00045
TRICHLOROFLUOROMETHANE	VOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8260B	01/25/2001	0.00027	U		
VANADIUM	METAL	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW6010B	08/21/2002	68	=		
VANADIUM	METAL	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW6010B	07/22/2002	78	=	0.27	1
VANADIUM	METAL	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW6010B	07/22/2002	65	=	0.23	0.86
VANADIUM	METAL	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW6010B	07/22/2002	69	=	0.26	0.95
VANADIUM	METAL	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW6010B	07/22/2002	69	=	0.23	0.86
VANADIUM	METAL	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW6010B	07/23/2002	70	J	0.29	1.1
VANADIUM	METAL	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW6010B	07/23/2002	71	J	0.21	0.78
VANADIUM	METAL	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW6010B	07/24/2002	76	=	0.27	0.99
VANADIUM	METAL	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW6010B	07/24/2002	68	=		
VANADIUM	METAL	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW6010B	07/24/2002	80	=	0.26	0.97
VANADIUM	METAL	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW6010B	07/24/2002	57	=	0.17	0.62
VANADIUM	METAL	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW6010B	08/20/2002	87	=	0.317	1.18
VANADIUM	METAL	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW6010B	08/20/2002	68.9	=	0.171	0.635
VANADIUM	METAL	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW6010B	08/20/2002	81.45	=		
VANADIUM	METAL	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW6010B	08/20/2002	72	=	0.256	0.95
VANADIUM	METAL	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW6010B	08/22/2002	74	=	0.23	0.83
VANADIUM	METAL	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW6010B	08/21/2002	68	=	0.24	0.91
VINYL ACETATE	VOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8260B	08/21/2002	0.0022	UJ		
VINYL ACETATE	VOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8260B	05/12/2003	0.0033	UJ	0.0033	0.016
VINYL ACETATE	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8260B	07/22/2002	0.0068	UJ	0.0068	0.032
VINYL ACETATE	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.0029	UJ	0.0029	0.014
VINYL ACETATE	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.0038	UJ	0.0038	0.018
VINYL ACETATE	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.0058	UJ	0.0058	0.028
VINYL ACETATE	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.0041	UJ	0.0041	0.02
VINYL ACETATE	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.004	UJ	0.004	0.019
VINYL ACETATE	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.0051	U	0.0051	0.024
VINYL ACETATE	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.0049	U		
VINYL ACETATE	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.0053	U	0.0053	0.025
VINYL ACETATE	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.003	U	0.003	0.014
VINYL ACETATE	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.002	UJ	0.002	0.0094
VINYL ACETATE	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.0019	UJ		
VINYL ACETATE	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.0018	UJ	0.0018	0.0088
VINYL ACETATE	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.0031	U	0.0031	0.015
VINYL ACETATE	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.003	U	0.003	0.014
VINYL CHLORIDE	VOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8260B	08/21/2002	0.0032	U		
VINYL CHLORIDE	VOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8260B	05/12/2003	0.0025	U	0.0025	0.0079
VINYL CHLORIDE	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8260B	07/22/2002	0.01	U	0.01	0.032
VINYL CHLORIDE	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.0042	U	0.0042	0.014
VINYL CHLORIDE	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.0056	U	0.0056	0.018
VINYL CHLORIDE	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.0085	U	0.0085	0.028
VINYL CHLORIDE	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.0061	U	0.0061	0.02
VINYL CHLORIDE	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.0058	U	0.0058	0.019
VINYL CHLORIDE	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.0075	U	0.0075	0.024
VINYL CHLORIDE	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.0073	U		
VINYL CHLORIDE	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.0079	U	0.0079	0.025

TABLE A-2

Database Output of Soil Samples at AVMA Retained After Evaluation [a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
VINYL CHLORIDE	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.0045	U	0.0045	0.014
VINYL CHLORIDE	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.0029	UJ	0.0029	0.0094
VINYL CHLORIDE	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.0028	U		
VINYL CHLORIDE	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.0027	UJ	0.0027	0.0088
VINYL CHLORIDE	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.0046	U	0.0046	0.015
VINYL CHLORIDE	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.0045	U	0.0045	0.014
VINYL CHLORIDE	VOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8260B	01/23/2001	0.00023	U	0.00023	0.00045
VINYL CHLORIDE	VOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8260B	01/25/2001	0.00027	U		
XYLENES, m & p	VOC	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW8260B	08/21/2002	0.0015	U		
XYLENES, m & p	VOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8260B	05/12/2003	0.0067	U	0.0067	0.02
XYLENES, m & p	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8260B	07/22/2002	0.018	=	0.0048	0.016
XYLENES, m & p	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.018	=	0.0021	0.0069
XYLENES, m & p	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.0027	U	0.0027	0.009
XYLENES, m & p	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.0041	U	0.0041	0.014
XYLENES, m & p	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.14	=	0.003	0.0098
XYLENES, m & p	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.14	=	0.0028	0.0094
XYLENES, m & p	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.013	J	0.0037	0.012
XYLENES, m & p	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.019	J		
XYLENES, m & p	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.0038	U	0.0038	0.013
XYLENES, m & p	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.0022	U	0.0022	0.0072
XYLENES, m & p	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.0014	U	0.0014	0.0047
XYLENES, m & p	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.0062	JB		
XYLENES, m & p	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.0051	B	0.0013	0.0044
XYLENES, m & p	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.0022	U	0.0022	0.0075
XYLENES, m & p	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.0022	U	0.0022	0.0072
XYLENES, m & p	VOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8260B	01/23/2001	0.00049	J	0.00045	0.00091
XYLENES, m & p	VOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8260B	01/25/2001	0.00054	U		
XYLENES, TOTAL	VOC	OUE-AVMA	03AVMA03SL	AP-4411	5 - 7.5	SW8021B	05/12/2003	0.019	U	0.0056	0.039
ZINC	METAL	AVMA - Trench T8	OUE02T8LS17-AVG	AVMAT8	0.5	SW6010B	08/21/2002	61	=		
ZINC	METAL	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW6010B	07/22/2002	64	=	0.081	0.61
ZINC	METAL	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW6010B	07/22/2002	83	=	0.069	0.52
ZINC	METAL	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW6010B	07/22/2002	73	=	0.076	0.57
ZINC	METAL	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW6010B	07/22/2002	63	=	0.069	0.52
ZINC	METAL	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW6010B	07/23/2002	60	J	0.085	0.64
ZINC	METAL	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW6010B	07/23/2002	140	J	0.063	0.47
ZINC	METAL	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW6010B	07/24/2002	57	=	0.079	0.59
ZINC	METAL	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW6010B	07/24/2002	57.5	=		

TABLE A-2

Database Output of Soil Samples at AVMA Retained After Evaluation [a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
ZINC	METAL	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW6010B	07/24/2002	67	=	0.078	0.58
ZINC	METAL	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW6010B	07/24/2002	60	=	0.049	0.37
ZINC	METAL	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW6010B	08/20/2002	67	=	0.0941	0.705
ZINC	METAL	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW6010B	08/20/2002	60	=	0.0508	0.381
ZINC	METAL	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW6010B	08/20/2002	66.6	=		
ZINC	METAL	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW6010B	08/20/2002	62.6	=	0.076	0.57
ZINC	METAL	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW6010B	08/22/2002	57	=	0.067	0.5
ZINC	METAL	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW6010B	08/21/2002	70	=	0.073	0.54
VINYL CHLORIDE	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.0042	U	0.0042	0.014
VINYL CHLORIDE	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.0056	U	0.0056	0.018
VINYL CHLORIDE	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.0085	U	0.0085	0.028
VINYL CHLORIDE	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.0061	U	0.0061	0.02
VINYL CHLORIDE	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.0058	U	0.0058	0.019
VINYL CHLORIDE	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.0075	U	0.0075	0.024
VINYL CHLORIDE	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.0079	U	0.0079	0.025
VINYL CHLORIDE	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.0073	U		
VINYL CHLORIDE	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.0045	U	0.0045	0.014
VINYL CHLORIDE	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.0029	UJ	0.0029	0.0094
VINYL CHLORIDE	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.0028	U		
VINYL CHLORIDE	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.0027	UJ	0.0027	0.0088
VINYL CHLORIDE	VOC	AVMA - Trench T8	OUE02T8LS17	AVMAT8	0.5	SW8260B	08/21/2002	0.0033	U	0.0033	0.01
VINYL CHLORIDE	VOC	AVMA - Trench T8	OUE02T8LS18	AVMAT8	0.5	SW8260B	08/21/2002	0.0032	U	0.0032	0.01
VINYL CHLORIDE	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.0045	U	0.0045	0.014
VINYL CHLORIDE	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.0046	U	0.0046	0.015
XYLENES, m & p	VOC	Unknown	00FRAW10SL	AP-4146	4.5-6	SW8260B	01/23/2001	0.00049	J	0.00045	0.00091
XYLENES, m & p	VOC	Unknown	00FRAW15SL-AVG	AP-4151	4.5-6	SW8260B	01/25/2001	0.00054	U		
XYLENES, m & p	VOC	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW8260B	07/22/2002	0.018	=	0.0048	0.016
XYLENES, m & p	VOC	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW8260B	07/22/2002	0.018	=	0.0021	0.0069
XYLENES, m & p	VOC	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW8260B	07/22/2002	0.0027	U	0.0027	0.009
XYLENES, m & p	VOC	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW8260B	07/22/2002	0.0041	U	0.0041	0.014
XYLENES, m & p	VOC	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW8260B	07/23/2002	0.14	=	0.003	0.0098
XYLENES, m & p	VOC	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW8260B	07/23/2002	0.14	=	0.0028	0.0094
XYLENES, m & p	VOC	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW8260B	07/24/2002	0.013	J	0.0037	0.012
XYLENES, m & p	VOC	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW8260B	07/24/2002	0.0038	U	0.0038	0.013
XYLENES, m & p	VOC	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW8260B	07/24/2002	0.019	J		
XYLENES, m & p	VOC	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW8260B	08/20/2002	0.0022	U	0.0022	0.0072
XYLENES, m & p	VOC	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW8260B	08/20/2002	0.0014	U	0.0014	0.0047
XYLENES, m & p	VOC	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW8260B	08/20/2002	0.0062	JB		
XYLENES, m & p	VOC	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW8260B	08/20/2002	0.0051	B	0.0013	0.0044
XYLENES, m & p	VOC	AVMA - Trench T8	OUE02T8LS17	AVMAT8	0.5	SW8260B	08/21/2002	0.0016	U	0.0016	0.0052
XYLENES, m & p	VOC	AVMA - Trench T8	OUE02T8LS18	AVMAT8	0.5	SW8260B	08/21/2002	0.0015	U	0.0015	0.0051
XYLENES, m & p	VOC	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW8260B	08/21/2002	0.0022	U	0.0022	0.0072
XYLENES, m & p	VOC	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW8260B	08/22/2002	0.0022	U	0.0022	0.0075
ZINC	METAL	AVMA - Trench T1	02AVMA01SL	AVMAT1	0.5	SW6010B	07/22/2002	64	=	0.081	0.61
ZINC	METAL	AVMA - Trench T1	02AVMA02SL	AVMAT1	3.5	SW6010B	07/22/2002	83	=	0.069	0.52
ZINC	METAL	AVMA - Trench T2	02AVMA06SL	AVMAT2	0.5	SW6010B	07/22/2002	73	=	0.076	0.57
ZINC	METAL	AVMA - Trench T2	02AVMA07SL	AVMAT2	4	SW6010B	07/22/2002	63	=	0.069	0.52
ZINC	METAL	AVMA - Trench T3	02AVMA13SL	AVMAT3	0.5	SW6010B	07/23/2002	60	J	0.085	0.64
ZINC	METAL	AVMA - Trench T3	02AVMA14SL	AVMAT3	4	SW6010B	07/23/2002	140	J	0.063	0.47
ZINC	METAL	AVMA - Trench T4	02AVMA18SL	AVMAT4	0.5	SW6010B	07/24/2002	57	=	0.079	0.59
ZINC	METAL	AVMA - Trench T4	02AVMA23SL	AVMAT4	3	SW6010B	07/24/2002	67	=	0.078	0.58

TABLE A-2

Database Output of Soil Samples at AVMA Retained After Evaluation [a]

Baseline Ecological Risk Assessment

Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
ZINC	METAL	AVMA - Trench T4	02AVMA24SL	AVMAT4	4.5	SW6010B	07/24/2002	60	=	0.049	0.37
ZINC	METAL	AVMA - Trench T4	02AVMA19SL-AVG	AVMAT4	4	SW6010B	07/24/2002	57.5	=		
ZINC	METAL	AVMA - Trench T6	OUE02T6LS08	AVMAT6	0.5	SW6010B	08/20/2002	67	=	0.0941	0.705
ZINC	METAL	AVMA - Trench T6	OUE02T6LS09	AVMAT6	5	SW6010B	08/20/2002	60	=	0.0508	0.381

TABLE A-2

Database Output of Soil Samples at AVMA Retained After Evaluation [a]
Baseline Ecological Risk Assessment
Operable Unit E, Fort Richardson, Alaska

Analyte	Chemical Group	Site	Sample ID	Location	Depth	Method	Date Collected	Value	Q	DL	RL
ZINC	METAL	AVMA - Trench T6	OUE02T6LS11-AVG	AVMAT6	5	SW6010B	08/20/2002	66.6	=		
ZINC	METAL	AVMA - Trench T7	OUE02T7LS12	AVMAT7	5	SW6010B	08/20/2002	62.6	=	0.076	0.57
ZINC	METAL	AVMA - Trench T8	OUE02T8LS17	AVMAT8	0.5	SW6010B	08/21/2002	61	=	0.067	0.5
ZINC	METAL	AVMA - Trench T8	OUE02T8LS18	AVMAT8	0.5	SW6010B	08/21/2002	61	=	0.05	0.37
ZINC	METAL	AVMA - Trench T9	OUE02T8LS25	AVMAT9	5	SW6010B	08/21/2002	70	=	0.073	0.54
ZINC	METAL	AVMA - Trench T9	OUE02T8LS23	AVMAT9	1	SW6010B	08/22/2002	57	=	0.067	0.5

Notes:
[a] All values are expressed as mg/kg, dry weight.

Appendix B
Measurement of Soil pH at the Armored Vehicle Maintenance Area

APPENDIX B

Measurement of Soil pH at the Armored Vehicle Maintenance Area

Aluminum was detected in all samples collected from 0- to 6-feet below ground surface (bgs) at the Armored Vehicle Maintenance Area (AVMA) and analyzed for aluminum. Of the samples, 11 (61%) representing 7 trenches had concentrations greater than the background level for aluminum (19,000 milligrams per kilogram [mg/kg]). Because toxicity of aluminum is associated with low soil pH, the pH of soil (based on solution) was measured at 6 of the 11 sampling sites. These six sites were surface samples (0.5-foot bgs), where the highest concentrations of aluminum had been found. The other five sites were from depths of 1-foot bgs or greater and pH was not measured.

B.1 Methods

Numerous factors can affect pH measurements of soil. Some of those factors are related to sampling, such as point vs. composite samples, time elapsed between sampling and measurement, and moisture content. Other factors are related to sample preparation, such as sieving, grinding, drying, and storage. In addition, many factors related to analytical methods will also affect the measurements, including soil/solution ratio, suspending media, incubation time, incubation procedure (stirring, open to air), electrode placement, electrode equilibration time and procedure, and agitation during recording of pH.

To provide consistency in how the pH of soil samples was measured, to reduce the amount of error in pH measurements due to the above-listed factors, and to increase the representativeness and comparability of the measurements, the following methods were used. These methods provide for uniform sampling and handling of the soil samples for pH measurement.

B.1.1 Soil Sampling

The following methods were used to collect soil samples at the site:

- Roughly equal amounts of soil from individual sample locations were composited
- Plant materials and coarse fragments (greater than 2 millimeters [mm]) were excluded from samples (used sieve if needed)
- Samples were taken from within the same soil layer
- The samples were thoroughly mixed to composite
- If samples varied widely with respect to moisture, a portion of each was air-dried at room temperature for approximately 1 day (or less) to assure uniform moisture content

B.1.2 Sample Preparation

Samples were prepared as follows:

- A 2-mm sieve was used to remove coarse fragments if needed
- The samples were not ground

B.1.3 Measurement of pH

The following pH measurement procedure was adapted from the American Society of Agronomy/Soil Science Society of America (ASA/SSSA) (1982). The pH of each sample was measured two times, when soil was mixed with distilled water and when 0.01*M*[1] Calcium chloride ($CaCl_2$) was added to the soil solution.

B.1.3.1 Equipment and Reagents

1. pH meter (with indicating and reference electrodes)
2. Stirring rod (glass or plastic)
3. Paper cups, 28 grams (g) (1 ounce [oz]) Solo soufflé cup (or equivalent)
4. $CaCl_2$ solution, 1 or 0.01*M*
5. Standard buffers, pH 4 and 7 or 7 and 10
6. Distilled water

B.1.3.2 Procedure

1. A subsample of 5 g of air-dried soil were weighed or measured into a paper cup (or other container).
2. Five milliliters (ml) of distilled water were added to each cup.
3. The soil and distilled water were mixed thoroughly for 5 seconds.
4. The mixed soil and distilled water solution were left to stand for 10 minutes.
5. To measure pH, the electrodes were inserted into the container, and the soil suspension was stirred by swirling the electrodes slightly. The electrodes were protected with a short glass rod attached to the electrode holder and extended just below the tips of the electrodes. This was done to avoid scratching the electrodes against the soil and container bottom and to assure the measurement was taken in the same place within the suspension each time.
6. The pH was read immediately on the standardized pH meter, and was recorded as soil pH in water or pH_w.
7. To determine the pH in 0.01*M* $CaCl_2$, 1 drop (0.05 ml) of 1*M* $CaCl_2$ solution was added to the soil water suspension.
8. The mixture was stirred intermittently for 30 minutes.
9. The electrodes were inserted and the pH was read on the standardized pH meter. These pH values were recorded as soil pH in 0.01*M* $CaCl_2$ or pH_s. Alternatively, the soil pH

[1] Molar concentration of a solute in a solution defined as number of moles of solute per liter of solution.

in 0.01*M* $CaCl_2$ may be determined by directly substituting 0.01*M* $CaCl_2$ for water in no. 2 above.

B.2 Results

The pH values in distilled water at the six locations ranged from 6.26 to 6.62, whereas those in soil solution ranged from 5.2 to 5.66 (Table B-1). The distilled water measurement represents pH at one point in time and this can vary greatly over short periods of time. Because the soil in the 0.01*M* $CaCl_2$ solution represents the indigenous soil properties, pH measured in this solution is the best representation of actual soil pH over time. Therefore, this value was used to determine whether soluble forms of aluminum are available at the AVMA site. Because Mulder *et al.* (1989 in U.S. Environmental Protection Agency [USEPA], 2003) demonstrated that soluble aluminum (i.e., the potentially toxic form) is not found in soil when pH is above 5.0, soluble aluminum is not expected to occur in AVMA soils. Therefore, the aluminum found in AVMA soils is not expected to be toxic.

B.3 References

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