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# Final Operable Unit 5
# Remedial Investigation/Feasibility Study
# Management Plan
# Fort Wainwright, Alaska

Prepared for

**U.S. Army Corps of Engineers, Alaska District**
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HLA Project No. 29633


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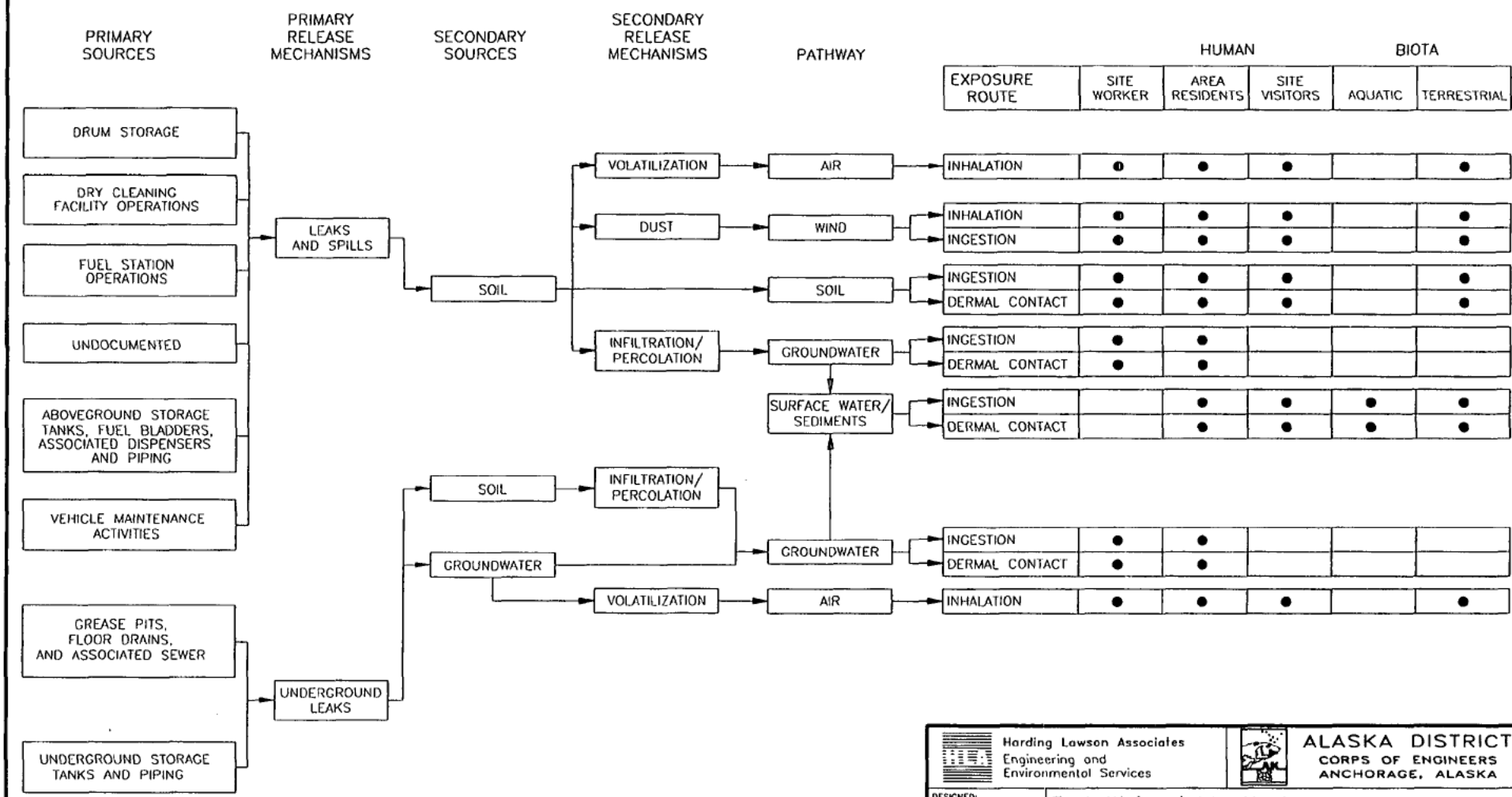


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CHIEF, ARCHITECTURAL SECTION

Fort Wainwright, Alaska
OU 5, RI/FS Management Plan

**Conceptual Site Model East Section, Former Quartermaster's Fueling System**

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APPROVED: PCR
CHIEF, ENGINEERING DIVISION

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FIGURE
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## DISTRIBUTION

# 1.0 INTRODUCTION

Harding Lawson Associates (HLA) prepared this management plan to guide the Operable Unit 5 (OU 5) remedial investigation/feasibility study (RI/FS) at the U.S. Army's Fort Wainwright facility in Fairbanks, Alaska. This plan was prepared for the U.S. Army Corps of Engineers (USACE) under Delivery Order No. 0004 of Indefinite Architect-Engineer Services Contract No. DACA85-94-D-0008. The USACE assigned this delivery order to HLA on September 9, 1994.

Fort Wainwright is located within the Fairbanks North Star Borough (FNSB) in central Alaska and covers approximately 911,604 acres on the eastern side of the City of Fairbanks (EPA et al., 1991b) (Figure 1-1). The OU 5 portion of Fort Wainwright contains two general areas defined in the scope of work as the North Airfield groundwater plumes and the open burning/open detonation (OB/OD) source area. The North Airfield groundwater plumes are comprised of two separate sites: the West Section, Former Quartermaster's Fueling System (West QFS) source area, and the East Section, Former Quartermaster's Fueling System (East QFS) source area. Each of these source areas is shown on Figure 1-2.

## 1.1 Federal Facility Agreement

In August 1990, Fort Wainwright was placed on the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) National Priorities List (NPL). Current environmental assessment and remediation activities at Fort Wainwright comply with CERCLA requirements, as amended by the Superfund Amendments and Reauthorization Act (SARA) of 1986. Activities also comply with a March 1992 Federal Facility Agreement (FFA) between the U.S. Environmental Protection Agency (EPA), the Department of Defense (DOD), and the Alaska Department of Environmental Conservation (ADEC). The FFA identifies the authorities and responsibilities of these parties and integrates CERCLA requirements with other relevant federal and state remedial programs, such as the Resource Conservation and Recovery Act (RCRA) and Alaska's Underground Storage Tank (UST) Program.

The general purposes of the FFA, as defined in Section III of the agreement, are to:

- "Ensure that the environmental impacts associated with past and present activities at the Site are thoroughly investigated and appropriate removal and/or remedial action(s) is taken as necessary to protect the public health, welfare, and the environment;
- Establish a procedural framework and schedule for developing, implementing, and monitoring appropriate response actions at the Site in accordance with CERCLA, the NCP [National Contingency Plan], national Superfund guidance and policy, RCRA, national RCRA guidance and policy, and applicable state law; and
- Facilitate cooperation, exchange of information, and participation of the Parties in such actions."

## 1.2 Management Plan Purpose and Overview

To develop the OU 5 RI/FS Management Plan (MP), HLA reviewed extensive data compiled from various site reconnaissance activities. The OU 5 RI/FS MP incorporates information from previous OU 5 investigations at Fort Wainwright, as well as ADEC, EPA, and military files. Information was also obtained through interviews with past and current civilian and military personnel. This MP was prepared according to the *Guidance for Conducting Remedial Investigations and Feasibility Studies Under CERCLA* (EPA, 1988a).

The purposes of this MP are to identify the objectives of the RI/FS for OU 5 and to establish procedures to accomplish these objectives. In accordance with FFA requirements and CERCLA guidance, this document incorporates a field sampling plan (FSP), a quality assurance project plan (QAPjP), and a site safety and health plan (SSHP).

Section 2 of the OU 5 RI/FS MP provides detailed physical and geographical data for the OU 5 source areas, as well as historical information and current conditions. Section 2 also includes the environmental setting at Fort Wainwright and the OU 5 source areas.

Section 3 presents conceptual site models (CSMs) for each of the OU 5 source areas and identifies preliminary remedial alternatives. The CSMs are presented as a basis for organizing and understanding available data pertaining to the known or suspected contaminant sources, suspected release and migration mechanisms, and potential or actual exposure mechanisms and receptors.

Data quality objectives (DQOs) are described in Section 4. This section presents the rationale for the RI/FS and describes the general technical approach to be used to provide the additional data needs identified in Section 3.

Section 5 details the major tasks to be performed during the RI/FS, particularly project planning, field investigation, sample analyses/data validation, and risk assessment (RA). Section 6 concludes the main body of the MP with a description of the timeline established by the FFA for project completion.

Appendix A contains the FSP, which presents the recommended strategy for collecting additional data. The FSP describes the specific field investigations proposed; the type, number, frequency, and rationale for samples to be collected; sampling/environmental measurement procedures and equipment needs; and sample handling procedures and analytical requirements.

The QAPjP, presented in Appendix B, describes the project organization and responsibilities, policies, objectives, and specific quality assurance (QA) and quality control (QC) procedures that will be used to promote the validity of field surveys, sampling activities, and analytical data generated during the project. The SSHP, presented in Appendix C, explains the procedures used to protect field personnel, site visitors, and the general public during the field portion of the study. The SSHP identifies the anticipated physical/chemical hazards associated with the sites and the fieldwork; lists the personal protective equipment needed during the field tasks; and presents decontamination procedures. Also included in the SSHP are emergency plans, first-aid requirements, local emergency care facilities, and accident reporting procedures.

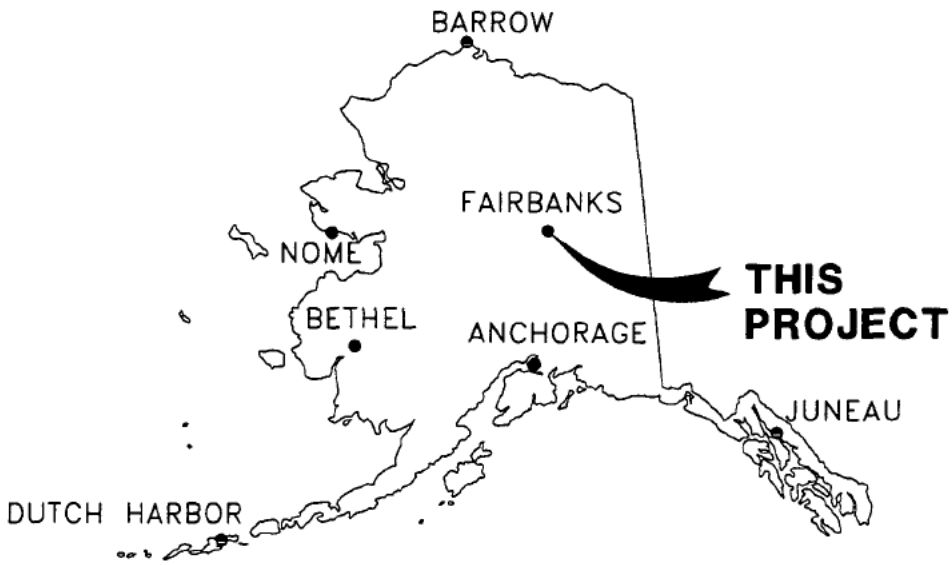
Appendix D presents a preliminary review of potentially applicable or relevant and appropriate requirements (ARARs). This appendix describes action-specific, chemical-specific, and location-specific ARARs.

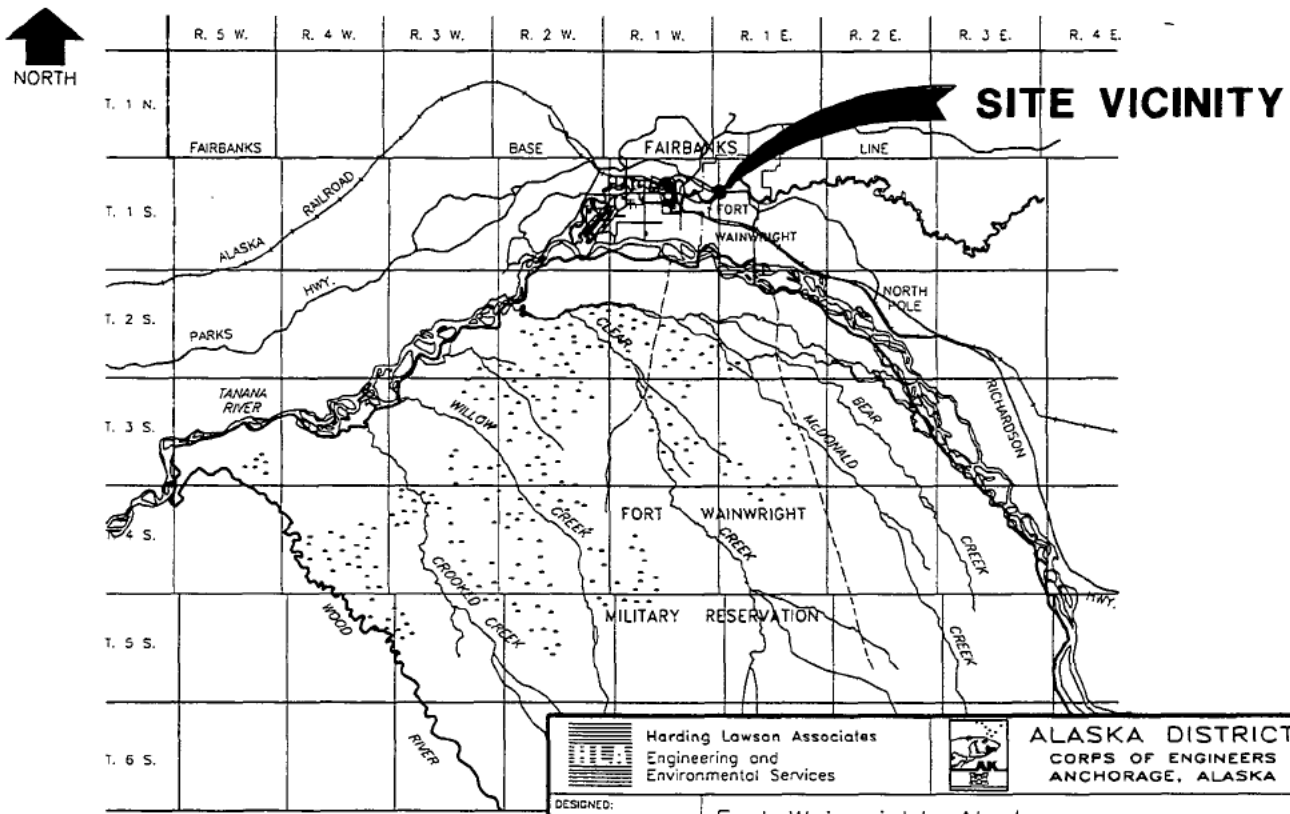
A community relations plan (CRP) has been developed for the OU 5 RI/FS and is included as Appendix E.

The approaches for developing the baseline human health risk assessment (HRA) and the qualitative ecological risk assessment (ERA) for OU 5 are described in Appendix F.

Appendix G contains chemical data tables for groundwater, surface water, soil, and sediment at the OU 5 sites.

Together, the documents contained in this plan comprise the primary management tools to guide the OU 5 project to successful completion.

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Fort Wainwright, Alaska
OU 5, RI/FS Management Plan

**Vicinity Map**

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FIGURE
**1-1**

195b

FAIRBANKS

CHENA RIVER

EAST SECTION, FORMER QUARTERMASTER'S FUELING SYSTEM

WEST SECTION, FORMER QUARTERMASTER'S FUELING SYSTEM

DENNIS MANOR SUBDIVISION

MONTEREY LAKE

SOUTH GATE HOUSE

RICHARDSON HWY

BRIDGE ROAD

ARCTIC SURPLUS

NORTH

0 1250 2500 5000

SCALE IN FEET

FLOOD CONTROL DIKE

POND (FORMER BORROW AREA)

FORMER EXPLOSIVE ORDNANCE DISPOSAL AREA

GOOSE ISLAND

TANANA RIVER

MERIDIAN ISLAND

LEGEND

- ROADS AND PARKING, PAVED
- ROADS AND PARKING, UNPAVED
- RESERVATION BOUNDARY
- RAILROAD
- STREAM
- SHORELINE
- TRAIL
- BRIDGE

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Fort Wainwright, Alaska
OU 5, RI/FS Management Plan

**Site Map**

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# 2.0 SITE BACKGROUND

The main post cantonment area is a 4,473-acre expanse east of downtown Fairbanks, partly within the city limits. Fort Wainwright also includes 8,825 acres of ranges and 898,306 acres of military maneuver areas.

On March 31, 1937, Executive Order No. 7596 established 2,684.01 acres representing the airfield and the bulk of the original Fort Wainwright cantonment area as the Alaskan Cold Weather Environmental Airfield Station (ACWEAS). The ACWEAS was established specifically for military purposes, including cold weather testing, training, and operational preparedness. On December 1, 1939, ACWEAS was officially designated Ladd Army Airfield (LAAF). During World War II, LAAF served as a transfer point in the lend-lease program. Between 1942 and 1945, almost 8,000 combat and transport aircraft were transferred to Soviet aircrews at LAAF. In 1947, the newly formed U.S. Air Force assumed control of LAAF, which was redesignated Ladd Air Force Base (LAFB).

LAFB served as a resupply and maintenance base for the remote distant early warning sites and experimental ice stations in the Arctic Ocean. During the Korean conflict, LAFB served as part of the defense network and was the site of the first Nike Hercules Missile launch from a tactical missile site in December 1959.

On January 1, 1961, the Army resumed control of LAFB and renamed it Fort Wainwright. The primary mission of Fort Wainwright is to train infantry soldiers in the arctic environment; to prepare troops to defend the Pacific Rim in the event of war; and to rapidly deploy troops worldwide. Industrial operations at Fort Wainwright include maintaining fixed-wing aircraft, helicopters, and support vehicles.

## 2.1 Environmental Setting

This section describes the physiographic setting of the Fort Wainwright main post cantonment area, as well as the demography, ecology, surface water, climatology, regional geology, regional hydrogeology, and groundwater quality.

### 2.1.1 Physiographic Setting

The Fairbanks area consists of two geographic regions: the Yukon-Tanana Upland and the Tanana-Kuskokwim Lowland. Fort Wainwright is near the north side of the Tanana River Valley near the base of the hills that constitute part of the Yukon-Tanana Upland, a northwest-trending highland between the Yukon and Tanana Rivers. The Yukon-Tanana Upland is characterized by rolling hills with elevations typically between 500 and 3,000 feet above mean sea level (MSL). South of the Yukon-Tanana Upland is the Tanana-Kuskokwim Lowland, a sediment-filled trough between the upland on the north and the Alaska Range on the south. The Fort Wainwright cantonment area is located within the Tanana-Kuskokwim Lowland. This region is characterized by flat lowlands and gently rolling hills with elevations ranging from 350 to 950 feet above MSL. Bottomland forests and wetlands are typical in this area (University of Alaska, 1976).

### 2.1.2 Demography

Fairbanks is the second largest city in the state, although it is surrounded by vast tracts of relatively uninhabited land. The population of the FNSB is 77,720 (City of Fairbanks, 1991). According to the Community Research Center, a State Data Center Affiliate, the FNSB experienced a 44 percent population growth between 1980 and 1990, with at least a 10 percent growth for every age group. According to 1990 census population figures, Fort Wainwright had the highest concentration of young children in the FNSB, followed by Eielson AFB. Approximately one of every four children under the age of 5 lives on one of these military installations. The population of the FNSB remains predominantly White (82 percent overall in 1990). Blacks constitute 7 percent of the borough's population, and American Indians, Eskimos, and Aleuts represent 7 percent. Asians and Pacific Islanders represent 2.5

percent, and other races comprise 1.5 percent of the borough's population (City of Fairbanks, 1991).

In the FNSB, 71 percent of the households are families (comprised of persons who are related), while 29 percent are one-person or nonfamily households. Eighty-three percent of the borough's 19,032 family households are headed by married couples, higher than national and Alaskan percentages in general. The military bases of Fort Wainwright and Eielson AFB also have the largest average household size in the FNSB: 3.52 and 3.62 persons per household, respectively (City of Fairbanks, 1991).

### 2.1.3 Ecology

Fort Wainwright lies within an upland spruce-hardwood forest ecosystem. Natural vegetation in the area is typical of low elevations in interior Alaska. Tree species in undeveloped areas include paper birch, white spruce, black spruce, quaking aspen, balsam poplar, cottonwood, and tamarack. Willow, alder, dwarf birch, rose, blueberry, labrador tea, and high-bush cranberry are common shrubs. Black spruce dominates the lowland forests, which are generally found on shallow peat, glacial deposits, outwash plains, and north-facing slopes. Low-brush bog and muskeg communities occur where soil conditions are too wet for tree growth, or where permafrost occurs near the ground surface (E&E, 1993).

Nearly all of the natural vegetation and original topsoil at Fort Wainwright was stripped before the construction of post facilities. Gravel was used extensively as backfill. Topsoil was replaced in many areas to create lawns, playfields, and landscaped areas. Natural plant succession in the area is mostly influenced by soil drainage and nutrient content. Common pioneering plant types include grasses, low shrubs, willows, and alder (E&E, 1993).

Many areas in the vicinity of Fort Wainwright are covered by muskeg and wetlands. While some wetlands have standing water, most of the wetland areas have been characterized on the basis of vegetation types, rather than hydrological conditions or habitat value. According to U.S. Fish and Wildlife Service classifications, several wetland vegetation types are located at Fort Wainwright. These include the Palustrine Scrub Shrub Needle-Leafed Evergreen-Saturate, the Needle-Leafed Deciduous-Saturate, and the Palustrine Forested Needle-Leafed Evergreen-Saturate. Large wetlands at Fort Wainwright near the North Airfield source area are designated Palustrine Forested Needle-Leafed Evergreen and Deciduous-Saturate (E&E, 1993). The OB/OD is within the floodplain of the Tanana River and is not designated a wetland area.

Wildlife species found in the areas surrounding Fairbanks are similar to those found in other areas of interior Alaska. In the immediate vicinity of Fairbanks, mammals and birds that tolerate human presence are common. Fort Wainwright is documented as a habitat for moose, red fox, muskrat, beaver, snowshoe hares, red squirrel, and marten. Reportedly, black bears are seen occasionally. The Fairbanks area is located within a winter-use and calving area for moose (E&E, 1993).

Migratory waterfowl including ducks, geese, and swans at Fort Wainwright use the ponds and wetlands in the vicinity. Other migratory birds include swallows, thrushes, sparrows, sandpipers, yellow legs, warblers, and sandhill cranes. Raptors include bald and golden eagles, peregrine falcons, hawks, merlins, and kestrels. Great horned, great gray, snowy, and boreal owls are present. Nonmigratory birds at Fort Wainwright include ravens, jays, chickadees, woodpeckers, grouse, and ptarmigan.

The Chena River is the primary aquatic ecosystem within Fort Wainwright. Because of its relatively clear water (compared to the Tanana River), the Chena River supports a diverse and abundant fish population. Anadromous species including king (chinook), chum, and silver (coho) salmon migrate through the Chena River. Sheefish, grayling, white fish, burbot, and sculpin are also present.

The only known endangered species in the Fort Wainwright area is the peregrine falcon.

However, the nearest documented nesting grounds are approximately 12 miles southwest of Fairbanks on cliffs above the Tanana River (E&E, 1993).

### 2.1.4 Surface Water

Fort Wainwright lies within the Tanana and Chena River drainage basins. The clear, meandering Chena River flows in a westerly direction for 150 miles and drains an area of approximately 2,000 square miles. The Tanana River is a silt-laden, highly braided, glacial stream that joins the Yukon River approximately 130 miles west of Fort Wainwright.

The Tanana River, south of Fort Wainwright, generally flows in a westerly direction. The Chena River flows through the northern portion of the Fort Wainwright main cantonment area and joins the Tanana River approximately 8 miles west-southwest of Fort Wainwright.

Based on U.S. Geological Survey (USGS) records, the average discharge for the Chena River at Fairbanks over a 42-year recording period was 1,371 cubic feet per second with a daily mean discharge of 1,292 cubic feet per second. The average discharge for the Tanana River at Fairbanks over a 17-year recording period was 19,970 cubic feet per second (E&E, 1993).

Surface-water runoff from each of the North Airfield source areas eventually drains to the Chena River. Surface-water runoff from the OB/OD source area eventually drains to the Tanana River. Before flow regulation, the Chena had a history of rapidly fluctuating flows during the flood season. At normal stages and at low stages during the winter when precipitation is stored as ice and snow, the Chena River appears to be an influent system, with groundwater flowing into it. Conversely, at high stages during the spring months when rainfall is augmented by melting snow and ice, the river appears to be effluent, discharging into groundwater and producing changes in local groundwater flow direction, water table levels, and velocities (University of Alaska, 1976).

Interaction between groundwater and the Chena River was monitored by the Cold Regions Research and Engineering Laboratory (CRREL) in three wells at the 801 Drum Burial site south of Trainor Gate Road. The Chena River flows south past the site, and the three wells are about 275 to 375 feet west of the river. Groundwater in this area generally flows east to northeast toward the river at a gradient of about 2 to 4 feet per mile. However, during the Chena's high stage event corresponding to breakup (around April 25 through late May), the river rose approximately 6 feet (groundwater levels rose approximately 2 feet) and groundwater flowed west out of the river. Similar flow patterns were observed during a high stage event in late June following a period of heavy rain. The river stage rose approximately 7-1/2 feet (groundwater levels rose about 4 feet) and groundwater flowed west out of the river, then changed direction as the high stage event reached its peak, and began flowing south (with the river). After the high stage events and before resuming flow toward the river, the data show a northern flow component (i.e., an upriver flow component). These data suggest complexities in the draining of the area and require further analysis (CRREL, 1995b).

Chemical analyses of Chena River water indicates that most trace metals are within typical ranges for interior Alaskan streams. Iron is the only naturally occurring element that may occasionally exceed the EPA-recommended level of 300 micrograms per liter (μg/L) for drinking water. High iron content is more prevalent in the lower elevations of the river and may result from the reducing conditions of marshy areas (E&E, 1993). The average concentrations of iron and manganese over the past 20 years in the portion of the Chena River from the North Pole to Fort Wainwright, according to USGS unpublished data, are approximately 286 μg/L and 48 μg/L dissolved, respectively. Because the Chena River is not fed by glaciers, the concentrations of suspended solids are relatively low.

### 2.1.5 Climatology

Fort Wainwright is in the continental climate zone of interior Alaska. In general, this zone is

characterized by extreme summer and winter temperatures and by light precipitation. Surface winds are generally light (University of Alaska, 1976).

Precipitation and temperature data are summarized in Tables 2-1 and 2-2, respectively.

Monthly mean temperatures historically range from -10.3 degrees Fahrenheit (°F) to 61.2°F. With an overall mean annual precipitation of 11.15 inches (NOAA, 1991), the region is characterized as semiarid. Approximately 64 percent of the annual precipitation falls from May through September as rain. The remaining precipitation is from snow and ice, with a mean annual snowfall of 54 inches.

During most of the year, the prevailing wind direction is from the north at an average of 5.15 miles per hour (mph). However, in June and July, the wind direction is typically from the southwest at an average of 6.9 mph (E&E, 1993). The strongest winds occur in May and June with mean speeds of 7.7 and 7.2 mph, respectively. Because of the generally low wind speeds, moderate to heavy ice fog is prevalent in the Fairbanks area during cold weather.

### 2.1.6 Regional Geology

The Yukon-Tanana Upland is a complex terrain of Precambrian and Paleozoic metamorphic rocks that have been extensively intruded by igneous rocks of Mesozoic to Tertiary age. The metamorphic assemblage extends southward beneath the Tanana-Kuskokwim Lowland to the Denali fault system in the Alaska Range, and northward to the Yukon flats and the Tintina fault zone. The Tintina and Denali faults separate the metamorphic rocks of the upland from relatively unmetamorphosed rocks to the north and south, respectively (Foster, et al., 1987).

In the Tanana basin, the metamorphic basement is overlain by a thick sequence of unconsolidated Quaternary sediments, consisting primarily of glacial outwash and fluvial deposits. Although this part of Alaska was not covered by ice sheets during the Pleistocene epoch, alpine glaciers occupied the Alaska Range and the high peaks of the Yukon-Tanana Upland. Substantial quantities of outwash were deposited in the valleys and reworked by streams and wind (Foster, et al., 1987).

In the uplands north of the Chena River, metamorphic bedrock is at or near the ground surface. Principal rock types include well-foliated gneiss and schist, weathered to varying depths. Observations made in rock cuts, quarries, and well logs indicate that fracture spacing and orientation are highly variable. In the lowlands, bedrock is buried beneath several hundred feet of unconsolidated glacial outwash and stream deposits of the Tanana River floodplain.

Most of Fort Wainwright, including the main cantonment area, lies within the lowlands of the river basin, where a surficial layer of fine-grained soil overlies deeper alluvial deposits. The surficial-soil layer is generally less than 5 feet thick. The alluvial floodplain deposits beneath the surficial soil consist of varying proportions of sand and gravel that are commonly layered. Silts are generally found intermixed with the alluvium to approximately 10 percent.

The Fort Wainwright area is generally underlain by discontinuous permafrost of low ice content in nonorganic soil. The ice is typically restricted to pore spaces and to thin ice seams in the silts and clays. The depth to permafrost, when present, ranges from 2 to 40 feet below ground surface. The greater depths are found on cleared and developed land surfaces where thermal degradation of underlying permafrost is occurring. The thicknesses of the permafrost intervals vary from approximately 5 to 275 feet. The seasonal frost layer (or active layer) also varies in thickness and is typically between 2 and 12 feet (E&E, 1993). A map showing the distribution of permafrost at Fort Wainwright is presented on Figure 2-1 (CRREL, 1995a).

**Table 2-1. Precipitation[a]**

| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Record Mean | 0.68 | 0.45 | 0.42 | 0.28 | 0.65 | 1.38 | 1.85 | 2.14 | 1.03 | 0.88 | 0.70 | 0.69 | 11.15 |

a. Precipitation in inches.

**Table 2-2. Average Temperature[a]**

| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Record Mean | -10.3 | -3.5 | 9.9 | 30.3 | 48.0 | 59.2 | 61.2 | 55.6 | 44.7 | 25.6 | 2.9 | -7.9 | 26.4 |
| Maximum | -1.4 | 7.7 | 23.3 | 41.4 | 59.1 | 70.4 | 71.8 | 65.7 | 54.2 | 33.1 | 11.1 | 0.4 | 36.4 |
| Minimum | -19.2 | -14.6 | -3.5 | 19.2 | 36.8 | 48.0 | 50.6 | 45.6 | 35.2 | 18.2 | -5.3 | -16.1 | 16.3 |

a. Degrees Fahrenheit.

Note: Record period is 1962 through 1991.
Source: NOAA, 1991, local climatological data, annual summary with comparative data, Fairbanks, Alaska.

### 2.1.7 Regional Hydrogeology

The main aquifer in the Fort Wainwright area is the Tanana basin alluvium. The aquifer ranges from a few feet thick at the base of Birch Hill to at least 300 feet thick under the main cantonment area, and may reach thicknesses of up to 700 feet in the Tanana River valley (E&E, 1993). The aquifer is considered unconfined in permafrost-free areas. The water table is generally encountered within 10 to 20 feet below ground surface and reportedly flows west-northwest on the south side of the Chena River. Groundwater appears to be influenced by the Chena River and follows its flow (USACE, 1993c). A regional groundwater flow map for Fort Wainwright is presented on Figure 2-2. Although data for the north side of the Chena River are limited, groundwater appears to flow west to southwest. The flow may be highly influenced by permafrost in that area. A substantial permafrost formation along the western boundary of the post between Trainor Gate Road and the base of Birch Hill may obstruct the general flow pattern and redirect the groundwater flow southwestward (USACE, 1993c).

According to the USACE's 1993 *Groundwater Monitoring Report* (1993c), the hydraulic gradient across the post on the south side of the Chena River ranges from about 0.0015 to 0.0005 foot per foot during periods of normal summer flow, and values of hydraulic conductivity on the order of $1 \times 10^{-1}$ centimeters per second (cm/sec) or greater are common.

### 2.1.8 Groundwater Quality

Naturally occurring chemical concentrations in groundwater in the Fairbanks and Fort Wainwright Area are generally below the maximum contaminant levels (MCLs) established by the National Primary Drinking Water Regulations (NPDWR) and the National Secondary Drinking Water Regulations (NSDWR). However, naturally occurring levels of iron and arsenic above MCLs are not uncommon.

In a study performed by the USGS, water samples from domestic wells and observation wells located in the Badger Road area upgradient (east-southeast) of Fort Wainwright were characterized for chemical constituents. The samples were analyzed for iron, hardness, arsenic, nitrate, chloride, phosphorus, sulfate, and fecal coliform. Iron was found at concentrations exceeding the NSDWR MCL of 0.3 milligrams per liter (mg/L). Iron concentrations ranged from 0.07 mg/L to 73 mg/L, with an average of 8.37 mg/L (Krumhardt, 1982).

Elevated arsenic levels are prevalent in upland areas around Fairbanks. During a well sampling survey performed by the USGS in the Chena Hot Springs Road, Steele Creek Road, and Gilmore Trail areas located north-northwest of Fort Wainwright, arsenic concentrations were found to range from 0 to 5,100 μg/L. Arsenic concentrations in groundwater from 13 percent of the sampled wells exceeded the 50 μg/L NPDWR MCL (Krumhardt, 1982).

Barium and chromium are reportedly naturally present in Fairbanks groundwater (Emcon, 1994). Background lead concentrations in Fort Wainwright groundwater are also believed to result from natural processes (USACE, 1994a).

Geologic explanations have been formulated for naturally occurring concentrations of arsenic, barium, and lead in groundwater. Those metals have been found, along with cadmium and chromium, in rock samples taken from a quarry near Fort Wainwright (USACE, 1994a).

The USACE began systematically sampling Fort Wainwright monitoring wells in 1989. The majority of the wells were in developed areas south of the Chena River. The USACE's 1992 *Groundwater Monitoring Report* includes the following findings:

- Groundwater from 15 wells contained concentrations of various metals at levels exceeding NPDWR MCLs. Lead, chromium, arsenic, and barium were the predominant metals found above MCLs. Arsenic and barium concentrations are believed to be naturally occurring. Additional information

may be required to assess the extent of contamination associated with lead and chromium.

- Groundwater from 11 wells contained significant amounts of volatile organic compounds (VOCs) (particularly benzene, toluene, ethylbenzene, and xylenes [BTEX]). Gasoline, diesel, jet fuel, and solvents were present in the groundwater samples from some wells.

The USACE's 1993 Groundwater Summary Report (Emcon, 1994) provides details on the following findings:

- Petroleum hydrocarbons in water samples from wells at OUs 1, 2, and 3, and from wells at several UST sites on Fort Wainwright.
- VOC concentrations above NPDWR MCLs in groundwater samples from OUs 1, 2, and 3, and UST sites.
- The semivolatile compounds naphthalene, 2-methylnaphthalene, fluorene, acenaphthalene, and phenanthrene in groundwater samples from OUs 1, 2, and 3, and UST sites. (These compounds are fuel-related and are typically detected when other fuel-related compounds are present.)
- bis-(2-Ethylhexyl)phthalate exceeding the 6 μg/L NPDWR MCL in samples from wells at OU 3 and UST sites, and from the picket wells installed to monitor groundwater at the northwest boundary of Fort Wainwright in 1992.
- A chlorinated herbicide in groundwater from one well at OU 1.
- Metal concentrations above the limits established by the NPDWR and NSDWR in samples from wells at OUs 1, 2, 3, and the UST sites, and from the picket wells.
- The absence of polychlorinated biphenyls (PCBs) and organophosphorous pesticides in groundwater samples from the wells included in the report.

Data for OU 4 were not available when the 1993 Groundwater Summary Report was completed. However, information in the August 7, 1995, draft proposed plan for OU 4 provides the following findings (E&E, unpublished):

- Groundwater from OU 4 sites contains contamination from metals, pesticides, petroleum hydrocarbons, VOCs, and SVOCs.
- The VOCs 1,1,2,2-tetrachloroethane; 1,2-dichloroethane; cis-1,2-dichloroethane; trichloroethane; and benzene at concentrations above NPDWR MCLs were detected in groundwater samples.
- The SVOC bis(2-ethylhexyl)phthalate at concentrations exceeding the NPDWR MCL was detected in groundwater samples.

Detailed descriptions of the chemical characteristics of groundwater beneath the OU 5 source areas are presented in Sections 2.2 through 2.4.

## 2.2 West QFS Area

The West QFS area is between the north runway and the Chena River, and between the railcar offloading facility (ROLF) and Building 1595 (Figure 2-3). The source area includes former Building 1599, located north of the flight line on Front Street, and various former fueling system components, including

- Two 500-gallon USTs (one gasoline and one diesel) south of Front Street;
- Three upright, cylindrical aboveground storage tanks (ASTs) and a powerhouse (pump building) between Front Street and Gaffney Road (one 94,000-gallon diesel AST [343], one 94,000-gallon gasoline AST [342], and one 25,000-gallon diesel AST);
- Two 25,000-gallon ASTs (one gasoline and one diesel) and a truck fill stand between Front Street and Gaffney Road;
- Dispenser islands and fill stands on either side of Front Street;
- Underground fuel pipelines connecting the system to the Birch Hill tank farm;
- A network of aboveground and buried fuel piping connecting the fueling system components.

A 500-barrel (21,000-gallon) diesel AST and associated connecting lines are shown on drawings from the early 1940s (U.S. Engineers Office, 1942, 1944); however, it is not known whether the tank was actually installed. Several railroad spurs also transected the area.

The tanks described above were removed and the site is currently a flat, grassy area. The 8-inch-diameter pipeline north of Gaffney Road is abandoned, but is still in place. It is unknown whether all other fuel piping has been removed (HLA, 1994b).

### 2.2.1 Past Practices

The West QFS supplied fuel for vehicles and aircraft. The removal dates for the tanks and fueling components are unknown; however, a review of historical aerial photographs indicates the following:

- September 9, 1949 (CRREL, 1994) - ASTs 342, 343, the 25,000-gallon diesel AST between them, and the two 25,000-gallon ASTs to the east are visible.
- July 17, 1962 - The tanks visible in the September 1949 aerial photograph are present, except for the 25,000-gallon AST between ASTs 342 and 343.
- August 10, 1969 - Each of the ASTs visible in the July 1962 aerial photograph are present.
- April 30, 1974 - The two 25,000-gallon ASTs east of ASTs 342 and 343 are no longer present.
- September 23, 1977 - AST 343 has been removed. AST 342 is the only tank visible in this photograph.

Inventory records of AST 343 indicate that approximately 30,000 gallons of diesel fuel leaked from the tank between February 5 and 8, 1971. The leak occurred at a break in the fuel line from the tank to the dispensing pumps. The fuel reportedly ran into an abandoned wood-stave sewer line that outfalls at the Chena River and onto the river ice (Figure 2-3). The fuel on the river ice was set on fire. An estimated 1,600 gallons of fuel were recovered and approximately 7,500 gallons were reportedly burned (Scribner, 1971a).

On March 24, 1971, approximately 16,000 gallons of gasoline spilled during fuel transfer activities from Birch Hill tank farm to AST 342. The leak is suspected to have occurred at a break in the line feeding the tank. The fuel line is thought to have been damaged by heavy equipment during repair of the diesel fuel line leak from February 1971. The fuel leaked to the Chena River via the same sewer line as the earlier spill. The cleanup was similar to that of the previous spill (Scribner, 1971b).

A fuel leak into the Chena River was discovered in 1980 near the West QFS. The source of the fuel is unknown, but the 8-inch-diameter pipeline along the north side of Gaffney Road was suspected. The U.S. Army dug a trench between Apple Road and the river to capture fuel, and installed a sheet-metal retaining structure to prevent fuel migration to the river (Figure 2-3). Sorbent pads were used to remove fuel that collected in the trench. In addition, a boom was placed in the Chena River. Fuel-soaked sorbents were burned by the fire department (Rutan, personal communication, 1994). It is not known how long the trench was open (HLA, 1994b).

Building 1599, the facilities engineer maintenance shop, was south of Front Street in the southern portion of the West QFS area. The building was erected in 1942 and destroyed in a fire-training exercise on April 12, 1984, leaving remnants of a concrete foundation. As-built drawings from 1943 show a building with floor dimensions of approximately 60 feet by 180 feet, with a concrete floor and foundation (DPW, 1943). The floor plan includes a welding shop, body shop, warm storage area, light- and heavy-equipment repair area, lubrication and service room with a grease pit, and a wash rack equipped with a sand trap in the floor drain. A 3-inch pipe is shown extending from the floor drain in the wash rack area to a manhole in the lubrication and service room, where it passes through a "grease trap" and out of the building into a septic tank.

This site is identified as the base auto shop on the Master Plan (AEC, 1958). Building 1599 was also reportedly used for storing and mixing pesticides before 1973 (ESE, 1983). The plan lists the structure as a temporary, wood-framed building in fair, usable condition. The building was adjacent to a 6-inch wood-stave sewer, which terminates at an outfall into the Chena River (Figure 2-3). The plan does not indicate whether the building was connected to the adjacent sewer line.

### 2.2.2 Previous Investigations

This section presents a summary of previous investigations performed in the West QFS area, including

- HLA's 1993 OU 1, Preliminary Source Evaluation (PSE) (1994a);
- A 1993 microwell investigation performed by the University of New Hampshire Environmental Research Group (UNH, 1993; CH2M Hill, 1994a);
- The 1993-1994 OU 3 remedial investigation performed by Ecology and Environment (E&E) (1994);
- HLA's 1994 North Airfield Groundwater Investigation (HLA, 1995).

A summary of past analytical data for the West QFS area is included in Appendix G. Sample locations and a summary of results for soil, groundwater, surface water, and sediment are shown on Figures 2-4 through 2-6.

**OU 1 Preliminary Source Evaluation 2** - Monitoring Well AP-5975 was installed north of Gaffney Road during a 1993 PSE conducted by HLA at Building 1599. A water sample collected from this well contained diesel-range organics (DRO); gasoline-range organics (GRO); benzene; and 1,2-dichloroethane (1,2-DCA) at concentrations of 4,660; 14,000; 2,100; and 110 µg/L, respectively. Monitoring Well AP-5974, near the foundation of former Building 1599, was not sampled because a thin layer of free product was encountered (HLA, 1994a).

Pesticides and dioxins have been detected in soil in the vicinity of Building 1599; however, further investigation of these chemicals is not included in the scope of work for OU 5 (investigation of pesticides and dioxins at Building 1599 is addressed in the OU 1 RI/FS MP).

**Microwell Investigation, Building 1599** - In 1993 a microwell investigation was performed by the University of New Hampshire Environmental Research Group (UNH) on behalf of the USACE and the CRREL (UNH, 1993; CH2M Hill, 1994a). The investigation was designed to test the usefulness of microwells for delineating groundwater contaminant plumes, and to increase knowledge of the Building 1599 site. One microwell (1599-PS01) was installed between Front Street and Gaffney Road, and 12 microwells (1599-PS02 through 1599-PS13) were installed north of Gaffney Road. The microwell locations are shown on Figure 2-3.

Samples collected from the microwells had GRO concentrations ranging from 778 µg/L to 58,000 µg/L, and benzene concentrations from 126 µg/L to 4,900 µg/L. Several microwells were not sampled due to the presence of free product or a sheen. Microwells 1599-PS10, 1599-PS11, 1599-PS12, and 1599-PS01 reportedly contained free product.

**OU 3 Remedial Investigation** - During the OU 3 remedial investigation, groundwater contamination was encountered in Monitoring Well AP-6016, west of the former Building 1599 location and adjacent to Monitoring Well AP-5537. Gasoline and benzene concentrations were reported as 6,100 µg/L and 140 µg/L, respectively (E&E, 1994).

**North Airfield Groundwater Investigation** - In 1994 HLA conducted a more comprehensive evaluation of the West QFS area during the North Airfield groundwater investigation. This investigation used a phased approach to evaluate petroleum hydrocarbons and volatile organic compounds in soil and groundwater. Approximately 125 groundwater probes were used to evaluate the extent of fuel constituents and chlorinated solvents in groundwater. Additionally, 24 soil borings were drilled to sample soil, and 10 monitoring wells were installed to sample groundwater.

Groundwater data from the investigation indicate that two free-product plumes exist in the West QFS area. The larger plume covers approximately 4-1/2 acres and encompasses the majority of the area where the fuel pumps, dispenser islands, and fuel storage tanks were located (Figure 2-7). A smaller free-product plume is located between the north flight line and Front Street. The location of the smaller product plume coincides with a bermed area surrounding a possible fuel containment structure (visible in an August 10, 1969, aerial photograph of the area.) Free product was not detected by HLA in Microwells 1599-PS10, -PS11, and -PS12 (Figure 2-3), where it was observed during the microwell evaluation previously described.

A benzene plume with concentrations greater than 5 μg/L encompasses approximately 25 acres, extending from the north flight line to the Chena River (Figure 2-7). The benzene plume is estimated to be at least 25 feet thick in this area. Benzene has also been detected at concentrations less than 5 μg/L more than 300 feet north of the Chena River in the interval between 30 to 40 feet below the groundwater surface (approximately 40 to 50 feet below the ground surface). Sediment samples collected along the Chena River indicate petroleum contamination on the river's south and north banks (Figure 2-6). Table 2-3 presents the frequency and range of concentrations for chemicals detected in sediment.

A chlorinated solvent plume of 1,2-DCA extends from the area north of Front Street to the Chena River, overlapping both the free product and benzene plumes (Figure 2-7). The extent of the 1,2-DCA plume is not defined and the source is unknown. 1,2-DCA was not detected in soil samples from the West QFS area.

Existing data indicate that plumes of DRO and GRO encompass the West QFS area. The extents of the DRO and GRO plumes are not defined. Tables 2-4 and 2-5 presents the frequency and range of concentrations for chemicals detected in groundwater at the West QFS area. Potential ARARs are also included in the table for comparison.

During the investigation, leaking drums of tar were observed protruding from the south bank of the Chena River (Figure 2-3). The drums are east of a former asphalt batch plant located near the ROLF. The contents of the drums are in contact with the surface water and sediments of the Chena River. Samples of the tar collected from two drums showed various petroleum constituents, notably DRO (up to 54,200 milligrams per kilogram [mg/kg]), GRO (up to 5,070 mg/kg), and total BTEX (up to 61 mg/kg). A Chena River surface-water sample collected within 10 feet of the drums contained benzene at 1.3 μg/L (Figure 2-6). Surface-water samples collected from other locations along the Chena River contained toluene (up to 0.7 μg/L), total xylenes (up to 0.6 μg/L), and 1,3-dichlorobenzene (up to 2.2 μg/L). Table 2-6 presents the frequency and range of chemicals detected in surface water.

Soil sampling data from the West QFS area showed fuel contaminants extending from the ground surface to the groundwater table in borings near the area of former fuel pumps, dispensers, and storage tanks. Borings north of the fueling system components (north of Gaffney Road) indicated fuel contaminants in the smear zone above the water table.

The compounds most frequently detected in soil included GRO, DRO, BTEX (particularly xylenes), naphthalene, and trimethylbenzenes. Lead was detected in subsurface soil at concentrations consistent with background levels (USACE, 1994a). Tables 2-7 and 2-8 present the frequency and range of concentrations for chemicals detected in soil at the West QFS area. Potential ARARs are also listed in the table for comparison.

## Table 2-3. Concentration Ranges of Analytes Detected in Chena River Sediment Samples

| Analyte | Number of Project Samples Collected | Number of Samples with Detectable Concentrations | Location | Units | Range of Concentrations |
|---|---|---|---|---|---|
| 1,2,4-Trimethylbenzene | 34 | 1 | 16SS | µg/kg | ND(5.5) to 63,100 |
| 1,3,5-Trimethylbenzene | 34 | 5 | 9SS, 10SS, 11SS, 3SL, 16SS | µg/kg | ND(5.5) to 39,400 |
| 2-Butanone | 34 | 5 | 10SL, 8SL, 1SL, 5SD, 2SL | µg/kg | ND(11) to 140 |
| 2-Hexanone | 21 | 1 | 1SL | µg/kg | ND(20) to 30 |
| 4-Methyl-2-pentanone (MIBK) | 21 | 1 | 1SL | µg/kg | ND(20) to 49 |
| Dichlorodifluoromethane | 34 | 4 | 11SL, 13SL, 12SL, 18SL | µg/kg | ND(5.5) to 39 |
| Diesel-Range Organics | 34 | 33 | 18SL, 1SD, 3SS, 17SL, 6SD, 19SL, 8SL, 9SL, 16SL, 10SL, 12SL, 15SS, 2SS, 11SL, 13SL, 15SL, 14SS, 2SL, 9SS, 10SS, 8SS, 6SS, 11SS, 5SD, 11SS, 7SS, 7SL, 2SD, 6SL, 14SL, 16SS, 3SL, 17SS | mg/kg | ND(10) to 54,200 |
| Ethylbenzene | 34 | 2 | 14SS, 2SL | µg/kg | ND(5.5) to 49 |
| Gasoline-Range Organics | 34 | 16 | 8SS, 7SL, 14SS, 2SL, 15SL, 9SS, 10SS, 14SL, 17SS, 5SD, 11SS, 2SD, 1SS, 6SL, 16SS, 3SL | mg/kg | ND(1.1) to 67,000 |
| Isopropylbenzene | 34 | 1 | 16SS | µg/kg | ND(5.5) to 5,860 |
| Methylene Chloride | 34 | 6 | 7SS, 2SD, 16SS, 3SL, 6SL, 7SL | µg/kg | ND(5.5) to 2,300 |
| Naphthalene | 34 | 3 | 11SS, 17SS, 16SS | µg/kg | ND(5.5) to 28,200 |
| Toluene | 34 | 2 | 2SL, 16SS | µg/kg | ND(5.0) to 1,350 |
| Total Lead | 17 | 11 | 10SL, 14SL, 8SL, 9SL, 11SL, 6SL, 7SL, 12SL, 2SL, 13SL, 3SL | mg/kg | ND(5.0) to 11 |
| Total Xylenes | 21 | 1 | 2SL | µg/kg | ND(5.0) to 47 |
| m & p-Xylene | 13 | 2 | 14SS, 16SS | µg/kg | ND(5.5) to 34,900 |
| n-Propylbenzene | 34 | 1 | 16SS | µg/kg | ND(5.5) to 8,460 |
| o-Xylene | 13 | 2 | 11SS, 16SS | µg/kg | ND(5.5) to 24,800 |
| p-Isopropyltoluene | 13 | 3 | 10SS, 11SS, 16SS | µg/kg | ND(5.5) to 12,400 |
| sec-Butylbenzene | 34 | 2 | 2SL, 16SS | µg/kg | ND(5.6) to 8,230 |

µg/kg Micrograms per kilogram
mg/kg Milligrams per kilogram
ND Not detected at or above the method reporting limit in parentheses

**Table 2-4. Concentration Ranges of Analytes Detected in Groundwater Samples From the 1994 North Airfield Groundwater Investigation at the West Section, Former Quartermaster's Fueling System Source Area**

| Analyte | Number of Project Samples Collected | Number of Samples with Detectable Concentrations | Location | Units | Range of Concentrations | Risk-Based* Concentration or Action Level |
|---|---|---|---|---|---|---|
| Diesel-Range Organics | 11 | 11 | AP-5975,WN1, WN2, WN6, WN7, WN8, WN9, WN10, WN11, WN12, WN15, | mg/L | 0.24 to 510 | -- |
| Gasoline-Range Organics | 11 | 10 | AP-5975, WN1, WN2, WN6, WN7, WN8, WN9, WN10, WN11, WN12 | mg/L | ND(50) to 7.5 | -- |
| Volatile Organic Compounds | | | | | | |
| 1,2,4-Trimethylbenzene | 11 | 5 | AP-5975, WN7, WN8, WN9, WN10 | µg/L | ND(1) to 430 | 3 (HQ=1) |
| 1,2-Dichloroethane | 11 | 5 | AP-5975, WN1, WN7, WN10, WN12 | µg/L | ND(0.5) to 68 | 0.12 ($10^{-6}$ RBC) |
| 1,2-Dichloropropane | 11 | 2 | AP-5975, WN10 | µg/L | ND(0.5) to 2.8 | 0.16 ($10^{-6}$ RBC) |
| Benzene | 11 | 10 | AP-5975, WN1, WN2, WN6, WN7, WN8, WN9, WN10, WN11, WN12 | µg/L | ND(0.5) to 1,700 | 0.36 ($10^{-6}$ RBC) |
| Ethylbenzene | 11 | 7 | AP-5975, WN1, WN2, WN7, WN9, WN10, WN12 | µg/L | ND(0.5) to 330 | 700 (MCL) |
| Isopropylbenzene | 11 | 2 | WN8, WN11 | µg/L | ND(1) to 3.6 | 1,500 (HQ=1) |
| Methylene chloride | 11 | 3 | AP-5975, WN7, WN10, TRIP | µg/L | ND(1) to 1.5 | 4.1 (HQ=1) |
| Styrene | 11 | 1 | AP-5975 | µg/L | ND(0.5) 0.63 | 1,000 (MCL) |
| Toluene | 11 | 8 | AP-5975, WN1, WN2, WN6, WN7, WN9, WN10, WN12 | µg/L | ND(0.5) to 1,800 | 750 (HQ=1) |
| Trichloroethene | 11 | 1 | WN1 | µg/L | ND(0.5) to 1 | 1.6 ($10^{-6}$ RBC) |
| cis-1,2-Dichloroethene | 11 | 3 | WN2, WN8, WN12 | µg/L | ND(0.5) to 1.5 | 61 (HQ=1) |
| m & p-Xylene | 6 | 1 | WN8 | µg/L | ND(1) to 1.3 | -- |
| n-Propylbenzene | 11 | 2 | WN8, WN11 | µg/L | ND(1) to 3.2 | 960 (HLA RBC) |
| Xylene (total) | 11 | 9 | AP-5975, WN1, WN2, WN6, WN7, WN9, WN10, WN12 | µg/L | ND(0.5) to 2,300 | 10,000 (MCL) |
| trans-1,2-Dichloroethene | 11 | 1 | WN2 | µg/L | ND(0.5) to 0.57 | 100 (MCL) |

* The risk-based concentrations or action levels included in this table generally represent the most restrictive of either primary drinking water MCLs or U.S. Environmental Protection Agency Region 3 RBCs. This table does not include action levels presented in the Alaska Water Quality Standard Regulations, which may be more restrictive. Refer to Appendix D for a more comprehensive discussion of potential applicable or relevant and appropriate requirements.

-- None established
$10^{-6}$ RBC Carcinogenic risk for residential tap water exposure
HLA Harding Lawson Associates
HQ Hazard quotient, noncarcinogenic risk for residential tap water exposure
MCL Maximum contaminant level
µg/L Micrograms per liter
mg/L Milligrams per liter
RBC Risk-based concentration

## Table 2-5. Concentration Ranges of Analytes Detected in 1993 Building 1599 Groundwater Samples

| Analyte | Number of Project Samples Collected | Number of Samples with Detectable Concentrations | Location | Units | Range of Concentrations | Risk-Based* Concentration or Action Level |
|---|---|---|---|---|---|---|
| Diesel-Range Organics | 2 | 2 | AP-5975 | µg/L | 4,350 to 4,660 | -- |
| Gasoline-Range Organics | 2 | 2 | AP-5975 | µg/L | 9,350 to 14,000 | -- |
| Volatile Organic Compounds | | | | | | |
| 1,2,4-Trimethylbenzene | 2 | 2 | AP-5975 | µg/L | 220 to 230 | 3 (HQ=1) |
| 1,2-Dichloroethane | 2 | 2 | AP-5975 | µg/L | 98 to 110 | 0.12 ($10^{-6}$ RBC) |
| 1,3,5-Trimethylbenzene | 2 | 2 | AP-5975 | µg/L | 81 to 83 | 2.4 (HQ=1) |
| Acetone | 2 | 2 | AP-5975 | µg/L | 37 to 41 | 3,700 (HQ=1) |
| Benzene | 2 | 2 | AP-5975 | µg/L | 2,000 to 2,100 | 0.36 ($10^{-6}$ RBC) |
| Ethylbenzene | 2 | 2 | AP-5975 | µg/L | 280 | 700 (MCL) |
| Isopropylbenzene | 2 | 2 | AP-5975 | µg/L | 28 to 29 | 1,500 (HQ=1) |
| Naphthalene | 2 | 2 | AP-5975 | µg/L | 140 to 160 | 1,500 (HQ=1) |
| Toluene | 2 | 2 | AP-5975 | µg/L | 350 to 400 | 750 (HQ=1) |
| Total Xylenes | 2 | 2 | AP-5975 | µg/L | 740 to 960 | 10,000 (MCL) |
| cis-1,2-Dichloroethene | 2 | 1 | AP-5975 | µg/L | ND(0.5) to 5 | 61 (HQ=1) |
| n-Propylbenzene | 2 | 2 | AP-5975 | µg/L | 38 to 41 | 960 (HLA RBC) |
| Semivolatile Organic Compounds | | | | | | |
| 2-Methylnaphthalene | 2 | 1 | AP-5975 | µg/L | ND(10) to 49 | -- |
| Naphthalene | 2 | 1 | AP-5975 | µg/L | ND(10) to 120 | 1,500 (HQ=1) |
| Polynuclear Aromatic Hydrocarbons | | | | | | |
| Acenaphthene | 2 | 1 | AP-5975 | µg/L | ND(1) to <3 | 2,200 (HQ=1) |
| Acenaphthylene | 2 | 2 | AP-5975 | µg/L | <10 to <20 | 310 (HLA RBC) |
| Fluorene | 2 | 2 | AP-5975 | µg/L | <0.9 to <1.2 | 1,500 (HQ=1) |
| Naphthalene | 2 | 2 | AP-5975 | µg/L | 110 | 1,500 (HQ=1) |
| Phenanthrene | 2 | 2 | AP-5975 | µg/L | 0.2 | 310 (HLA RBC) |

## Table 2-5. Concentration Ranges of Analytes Detected in 1993 Building 1599 Groundwater Samples (continued)

| Analyte | Number of Project Samples Collected | Number of Samples with Detectable Concentrations | Location | Units | Range of Concentrations | Risk-Based* Concentration or Action Level |
|---|---|---|---|---|---|---|
| Polychlorinated Biphenyls | | | | | | |
| 4,4'-Dichlorodiphenyldichloroethane | 2 | 2 | AP-5975 | µg/L | <0.2 | 0.28 ($10^{-6}$ RBC) |
| 4,4'-Dichlorodiphenyldichloroethene | 2 | 2 | AP-5975 | µg/L | <0.2 | 0.2 ($10^{-6}$ RBC) |
| 4,4'-Dichlorodiphenyltrichloroethane | 2 | 2 | AP-5975 | µg/L | <0.2 | 0.2 ($10^{-6}$ RBC) |
| Aldrin | 2 | 2 | AP-5975 | µg/L | <0.2 | 0.004 ($10^{-6}$ RBC) |
| Alpha-Benzene hexachloride (BHC) | 2 | 2 | AP-5975 | µg/L | <0.2 | 0.011 ($10^{-6}$ RBC) |
| Beta-BHC | 2 | 2 | AP-5975 | µg/L | <0.5 | 0.037 ($10^{-6}$ RBC) |
| Delta-BHC | 2 | 2 | AP-5975 | µg/L | <0.2 | 11 (HLA RBC) |
| Dieldrin | 2 | 2 | AP-5975 | µg/L | <0.2 | 0.0042 ($10^{-6}$ RBC)) |
| Endosulfan I | 2 | 2 | AP-5975 | µg/L | <0.2 | 2 (HQ=1) |
| Endosulfan II | 2 | 2 | AP-5975 | µg/L | <0.2 | 220 (HLA RBC) |
| Endosulfan sulfate | 2 | 2 | AP-5975 | µg/L | <0.2 | 220 (HLA RBC) |
| Endrin | 2 | 2 | AP-5975 | µg/L | <0.2 | 2 (MCL) |
| Endrin aldehyde | 2 | 2 | AP-5975 | µg/L | <0.2 | 11 (HLA RBC) |
| Gamma-BHC (lindane) | 2 | 2 | AP-5975 | µg/L | <0.2 | 0.052 ($10^{-6}$ RBC) |
| Heptachlor | 2 | 2 | AP-5975 | µg/L | <0.2 | 0.0023 ($10^{-6}$ RBC) |
| Heptachlor epoxide | 2 | 2 | AP-5975 | µg/L | <0.2 | 0.0012 ($10^{-6}$ RBC) |
| Methoxychlor | 2 | 2 | AP-5975 | µg/L | <0.5 | 40 (MCL) |

* The risk-based concentrations or action levels included in this table generally represent the most restrictive of either primary drinking water MCLs or U.S. Environmental Protection Agency Region 3 RBCs. This table does not include action levels presented in the Alaska Water Quality Standard Regulations, which may be more restrictive. Refer to Appendix D for a more comprehensive discussion of potential applicable or relevant and appropriate requirements.

| | |
|---|---|
| -- | None established |
| $10^{-6}$ RBC | Carcinogenic risk for residential tap water exposure |
| HLA | Harding Lawson Associates |
| HQ | Hazard quotient, noncarcinogenic risk for residential tap water exposure |
| MCL | Maximum contaminant level |
| µg/L | Micrograms per liter |
| ND | Not detected at or above the method reporting limit in parentheses |
| RBC | Risk-based concentration |

**Table 2-6. Concentration Ranges of Analytes Detected in Chena River Surface-Water Samples**

| Analyte | Number of Project Samples Collected | Number of Samples with Detectable Concentrations | Location | Units | Range of Concentrations |
|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | 10 | 2 | 1WA, 5WA | µg/L | ND(0.5) to 2.2 |
| Benzene | 10 | 1 | 10WA | µg/L | ND(0.5) to 1.3 |
| Toluene | 10 | 4 | 2WA, 5WA | µg/L | ND(0.5) to 0.7 |
| Total Xylenes | 10 | 2 | 5WA | µg/L | ND(0.5) to 0.6 |

µg/L Micrograms per liter
ND Not detected above the method reporting limit in parentheses

**Table 2-7. Concentration Ranges of Analytes Detected in Soil Samples from the 1994 North Airfield Groundwater Investigation at the West Section, Former Quartermaster's Fueling System Source Area**

| Analyte | Number of Project Samples Collected | Number of Samples with Detectable Concentrations | Location | Units | Range of Concentrations | Risk-Based Concentration or Action Level |
|---|---|---|---|---|---|---|
| Diesel-Range Organics | 148 | 107 | BN1, BN2, BN3, BN4, BN5, BN6, BN7, BN8, BN9, BN10, BN11, BN12, BN13, BN14, BN15, BN16, BN18, BN19, BN20, BN21, BN22, BN23, BN24, BN25, WN1, WN2, WN6, WN7, WN8, WN9, WN10, WN11, WN12 | mg/kg | ND(4.1) to 23,000 | 100 (ADEC) |
| Gasoline-Range Organics | 148 | 73 | BN1, BN2, BN3, BN4, BN5, BN6, BN7, BN8, BN9, BN10, BN11, BN12, BN13, BN14, BN15, BN16, BN18, BN20, BN21, BN22, BN24, BN25, WN1, WN2, WN6, WN7, WN10 | mg/kg | ND(1) to 3,620 | 50 (ADEC) |
| Volatile Organic Compounds | | | | | | |
| 1,2,4-Trimethylbenzene | 154 | 58 | BN1, BN2, BN3, BN4, BN5, BN6, BN7, BN8, BN9, BN10, BN11, BN12, BN13, BN14, BN15, BN16, BN21, BN24, BN25, WN1, WN2, WN6, WN7, WN10 | µg/kg | ND(5.1) to 254,000 | 39 (HQ=1) |
| 1,3,5-Trimethylbenzene | 154 | 63 | BN1, BN2, BN3, BN4, BN5, BN6, BN7, BN8, BN9, BN10, BN11, BN12, BN13, BN14, BN15, BN16, BN21, BN24, BN25, WN1, WN2, WN6, WN7, WN10 | µg/kg | ND(5.1) to 254,000 | 31 (HQ=1) |
| 2-Butanone | 154 | 4 | BN2, BN6, BN13, WN7 | µg/kg | ND(10) to 1,440 | 47,000 (HQ=1) |
| Acetone | 154 | 11 | BN4, BN6, BN18, BN21, BN23, WN6, WN7, WN15 | µg/kg | ND(10) to 389 | 7,800 (HQ=1) |
| Benzene | 154 | 18 | BN1, BN2, BN3, BN4, BN5, BN6, BN7, BN8, BN9, BN12, BN16, BN24, BN25 | µg/kg | ND(5.1) to 9,780 | 0.1 (HLA RBC) |
| Ethylbenzene | 154 | 38 | BN1, BN2, BN3, BN4, BN5, BN6, BN7, BN8, BN9, BN11, BN12, BN13, BN14, BN15, BN16, BN24, BN25, WN2 | µg/kg | ND(5.1) to 35,000 | 7,800 (HQ=1) |
| Isopropylbenzene | 154 | 31 | BN2, BN3, BN4, BN5, BN6, BN7, BN8, BN9, BN11, BN12, BN13, BN16, BN24, BN25, WN6, WN10 | µg/kg | ND(5.1) to 8,380 | 3,100 (HQ=1) |
| Methylene chloride | 154 | 54 | BN1, BN2, BN3, BN5, BN11, BN13, BN16, BN18, BN19, BN20, BN21, BN22, BN23, BN24, BN25, WN1, WN2, WN6, WN7 | µg/kg | ND(5.1) to 8,780 | 85 ($10^{-6}$ RBC) |
| Naphthalene | 154 | 65 | BN1, BN2, BN3, BN4, BN5, BN6, BN7, BN8, BN9, BN10, BN11, BN12, BN13, BN14, BN15, BN16, BN21, BN24, BN25, WN1, WN2, WN6, WN7, WN10 | µg/kg | ND(5.1) to 75,200 | 3,100 (HQ=1) |

**Table 2-7. Concentration Ranges of Analytes Detected in Soil Samples From the 1994 North Airfield Groundwater Investigation at the West Section, Former Quartermaster's Fueling System Source Area (continued)**

| Analyte | Number of Project Samples Collected | Number of Samples with Detectable Concentrations | Location | Units | Range of Concentrations | Risk-Based Concentration or Action Level |
|---|---|---|---|---|---|---|
| Toluene | 154 | 47 | BN1, BN2, BN3, BN4, BN5, BN6, BN7, BN8, BN9, BN11, BN12, BN13, BN14, BN15, BN16, BN24, BN25, WN2, WN6 | µg/kg | ND(5.1) to 105,000 | 16,000 (HQ=1) |
| m & p-Xylene | 148 | 57 | BN1, BN2, BN3, BN4, BN5, BN6, BN7, BN8, BN9, BN10, BN11, BN12, BN13, BN14, BN15, BN16, BN24, BN25, WN2, WN6, WN7 | µg/kg | ND(5.1) to 276,000 | 160,000 (HQ=1) (Total) |
| n-Butylbenzene | 154 | 4 | BN4, BN6, BN12 | µg/kg | ND(5.1) to 2,020 | -- |
| n-Propylbenzene | 154 | 36 | BN1, BN2, BN3, BN4, BN5, BN6, BN7, BN8, BN9, BN11, BN12, BN13, BN14, BN15, BN16, BN24, BN25, WN2 | µg/kg | ND(5.1) to 20,000 | -- |
| o-Xylene | 148 | 54 | BN1, BN2, BN3, BN4, BN5, BN6, BN7, BN8, BN9, BN10, BN11, BN12, BN13, BN14, BN15, BN16, BN24, BN25, WN1, WN2, WN6, WN7 | µg/kg | ND(5.1) to 87,400 | 160,000 (HQ=1) |
| p-Isopropyltoluene | 148 | 46 | BN1, BN2, BN3, BN4, BN5, BN6, BN7, BN8, BN9, BN10, BN11, BN12, BN13, BN14, BN15, BN16, BN24, BN25, WN1, WN6 | µg/kg | ND(5.1) to 23,200 | 548,000,000 (HLA RBC) |
| sec-Butylbenzene | 154 | 27 | BN2, BN4, BN5, BN6, BN7, BN8, BN9, BN11, BN12, BN13, BN16, BN24, BN25 | µg/kg | ND(5.1) to 5,940 | 780 (HQ=1) |
| tert-Butylbenzene | 154 | 1 | WN10 | µg/kg | ND(5.1) to 182 | 780 (HQ=1) |
| Metals | | | | | | |
| Lead (GFAA) | 148 | 148 | BN1, BN2, BN3, BN4, BN5, BN6, BN7, BN8, BN9, BN10, BN11, BN12, BN13, BN14, BN15, BN16, BN18, BN19, BN20, BN21, BN22, BN23, BN24, BN25, WN1, WN2, WN6, WN7, WN8, WN9, WN10, WN11, WN12 | mg/kg | 2.2 to 117 | 400 (EPA) |

| | |
|---|---|
| -- | None established |
| $10^{-6}$ RBC | Carcinogenic risk for residential soil exposure |
| ADEC | Alaska Department of Environmental Conservation |
| EPA | U.S. Environmental Protection Agency |
| GFAA | Graphite furnace atomic absorption |
| HLA | Harding Lawson Associates |
| HQ | Hazard quotient, noncarcinogenic risk for residential soil exposure |
| µg/kg | Micrograms per kilogram |
| mg/kg | Milligrams per kilogram |
| ND | Not detected at or above the method reporting limit in parentheses |
| RBC | Risk-based concentration |

## Table 2-8. Concentration Ranges of Analytes Detected in 1993 Building 1599 Soil Samples

| Analyte | Number of Project Samples Collected | Number of Samples with Detectable Concentrations | Location | Units | Range of Concentrations[c] | Risk-Based Concentration or Action Level |
|---|---|---|---|---|---|---|
| Diesel-Range Organics | 51 | 45 | 1SS, 2SS, 3SS, 4SS, 5SS, 6SS, 7SS, 8SS, 9SS, 10SS, 11SS, 12SS,13SS,14SS, 15SS, 16SS, 17SS, 18SS, 19SS, 20SS, 21SS, 22SS, 23SS, 24SS, 25SS, 26SS, 27SS, 28SS, 29SS, 30SS, AP-5969, AP-5970, AP-5971, AP-5972, AP-5973, AP-5974 | mg/kg | ND(10) to 4,100 | 100 (ADEC) |
| Gasoline Range Organics | 51 | 5 | 19SS, AP-5969, AP-5971, AP-5874 | mg/kg | ND(5) to 3,700 | 50 (ADEC) |
| Volatile Organic Compounds | | | | | | |
| 1,2,4-Trimethylbenzene | 51 | 3 | 19SS, AP-5974 | µg/kg | ND(20) to 30,000 | 39 (HQ=1) |
| 1,3,5-Trimethylbenzene | 51 | 3 | 19SS, AP-5974 | µg/kg | ND(20) to 14,000 | 31 (HQ=1) |
| 4-Isopropyltoluene | 51 | 1 | AP-5974 | µg/kg | ND(20) to 570 | -- |
| Benzene | 51 | 1 | AP-5974 | µg/kg | ND(5) to 230 | 0.1 (HLA RBC) |
| Ethylbenzene | 51 | 2 | AP-5974 | µg/kg | ND(5) to 4,700 | 7,800 (HQ=1) |
| Naphthalene | 51 | 2 | 19SS, AP-5974 | µg/kg | ND(20) to 8,800 | 3,100 (HQ=1) |
| Tetrachloroethene (PCE) | 51 | 4 | 2SS, 4SS, 7SS, 9SS | µg/kg | ND(5) to 7 | 12 ($10^{-6}$ RBC) |
| Toluene | 51 | 2 | AP-5974 | µg/kg | ND(5) to 13,000 | 16,000 (HQ=1) |
| Total Xylenes | 51 | 5 | 8SS, 9SS, 19SS, AP-5974 | µg/kg | ND(5) to 43,000 | 160,000 (HQ=1) |
| sec-Butylbenzene | 51 | 1 | AP-5974 | µg/kg | ND(20) to 150 | 780 (HQ=1) |
| Semivolatile Organic Compounds | | | | | | |
| 2-Methylnaphthalene | 51 | 4 | 19SS, AP-5971, AP-5974 | mg/kg | ND(0.3) to 14 | -- |
| bis(2-Ethylhexyl) phthalate | 51 | 1 | AP-5973 | mg/kg | ND(0.3) to 0.4 | 46 ($10^{-6}$ RBC) |
| Naphthalene | 51 | 3 | 19SS, AP-5974 | mg/kg | ND(0.3) to 12 | 7,800 (HQ=1) |

## Table 2-8. Concentration Ranges of Analytes Detected in 1993 Building 1599 Soil Samples (continued)

| Analyte | Number of Project Samples Collected | Number of Samples with Detectable Concentrations | Location | Units | Range of Concentrations[c] | Risk-Based Concentration or Action Level |
|---|---|---|---|---|---|---|
| Polychlorinated Biphenyls/ Chlorinated Pesticides[a] | | | | | | |
| Aroclor 1016 | 51 | 7 | 20SS, 21SS, 22SS, 23SS, 25SS, 26SS | mg/kg | ND(0.1) to <15 | 5.5 ($10^{-6}$ RBC) |
| Aroclor 1221 | 51 | 7 | 20SS, 21SS, 22SS, 23SS, 25SS, 26SS | mg/kg | ND(0.1) to <15 | 0.083[b] ($10^{-6}$ RBC) |
| Aroclor 1232 | 51 | 7 | 20SS, 21SS, 22SS, 23SS, 25SS, 26SS | mg/kg | ND(0.1) to <15 | 0.083[b] ($10^{-6}$ RBC) |
| Aroclor 1242 | 51 | 7 | 20SS, 21SS, 22SS, 23SS, 25SS, 26SS | mg/kg | ND(0.1) to <15 | 0.083[b] ($10^{-6}$ RBC) |
| Aroclor 1248 | 51 | 7 | 20SS, 21SS, 22SS, 23SS, 25SS, 26SS | mg/kg | ND(0.1) to <15 | 0.083[b] ($10^{-6}$ RBC) |
| Aroclor 1254 | 51 | 8 | 19SS, 20SS, 21SS, 22SS, 23SS, 25SS, 26SS | mg/kg | ND(0.1) to <15 | 0.083[b] ($10^{-6}$ RBC) |
| Aroclor 1260 | 51 | 8 | 19SS, 20SS, 21SS, 22SS, 23SS, 25SS, 26SS | mg/kg | ND(0.1) to <15 | 0.083[b] ($10^{-6}$ RBC) |
| 4,4'-Dichlorodiphenyldichloroethane | 51 | 28 | 2SS, 4SS, 5SS, 9SS, 10SS, 11SS, 12SS, 13SS, 14SS, 15SS, 16SS, 17SS, 18SS, 19SS, 20SS, 21SS, 22SS, 23SS, 24SS, 25SS, 26SS, 27SS, 28SS, 29SS, 30SS, AP-5969, AP-5971 | mg/kg | ND(0.01) to <10 | 2.7 ($10^{-6}$ RBC) |
| 4,4'-Dichlorodiphenyldichloroethene | 51 | 24 | 2SS, 4SS, 10SS, 11SS, 12SS, 13SS, 14SS, 15SS, 16SS, 17SS, 19SS, 20SS, 21SS, 22SS, 23SS, 24SS, 25SS, 26SS, 27SS, 28SS, 29SS, 30SS, AP-5969 | mg/kg | ND(0.01) to 20 | 1.9 ($10^{-6}$ RBC) |
| 4,4'-Dichlorodiphenyltrichloroethane | 51 | 36 | 1SS, 2SS, 3SS, 4SS, 5SS, 6SS, 7SS, 9SS, 10SS, 11SS, 12SS, 13SS, 14SS, 15SS, 16SS, 17SS, 18SS, 19SS, 20SS, 21SS, 22SS, 23SS, 24SS, 25SS, 26SS, 27SS, 28SS, 29SS, 30SS, AP-5969, AP-5971, AP-5973 | mg/kg | ND(0.01) to 86 | 1.9 ($10^{-6}$ RBC) |
| Aldrin | 51 | 5 | 21SS, 22SS, 23SS, 25SS, 26SS | mg/kg | ND(0.01) to 0.24 | 0.038 ($10^{-6}$ RBC) |
| Alpha-Benzene hexachloride (BHC) | 51 | 4 | 21SS, 22SS, 23SS, 25SS | mg/kg | ND(0.01) to <0.1 | 0.1 ($10^{-6}$ RBC) |
| Beta-BHC | 51 | 4 | 21SS, 22SS, 23SS, 25SS | mg/kg | ND(0.03) to <0.3 | 0.35 ($10^{-6}$ RBC) |
| Chlordane | 51 | 9 | 20SS, 21SS, 22SS, 23SS, 25SS, 26SS, 30SS, AP-5969 | mg/kg | ND(0.1) to <15 | 0.49 ($10^{-6}$ RBC) |
| Delta-BHC | 51 | 4 | 21SS, 22SS, 23SS, 25SS | mg/kg | ND(0.01) to <0.1 | 82 (HQ=1) |
| Dieldrin | 51 | 14 | 12SS, 19SS, 20SS, 21SS, 22SS, 23SS, 24SS, 25SS, 26SS, 27SS, 28SS, 30SS, AP-5969 | mg/kg | ND(0.01) to 3.7 | 0.04 ($10^{-6}$ RBC) |

## Table 2-8. Concentration Ranges of Analytes Detected in 1993 Building 1599 Soil Samples (continued)

| Analyte | Number of Project Samples Collected | Number of Samples with Detectable Concentrations | Location | Units | Range of Concentrations[c] | Risk-Based Concentration or Action Level |
|---|---|---|---|---|---|---|
| Endosulfan I | 51 | 6 | 20SS, 21SS, 22SS, 23SS, 25SS | mg/kg | ND(0.01) to <0.1 | 10 (HQ=1) |
| Endosulfan II | 51 | 8 | 20SS, 21SS, 22SS, 23SS, 25SS, 26SS, 30SS | mg/kg | ND(0.01) to <1 | 10 (HQ=1) |
| Endosulfan sulfate | 51 | 8 | 20SS, 21SS, 22SS, 23SS, 25SS, 26SS, 30SS | mg/kg | ND(0.01) to <0.1 | 1,640 (HQ=1) |
| Endrin | 51 | 8 | 20SS, 21SS, 22SS, 23SS, 25SS, 26SS, 30SS | mg/kg | ND(0.01) to <3 | 23 (HQ=1) |
| Endrin aldehyde | 51 | 8 | 20SS, 21SS, 22SS, 23SS, 25SS, 26SS, 30SS | mg/kg | ND(0.01) to <0.1 | -- |
| Gamma-BHC (lindane) | 51 | 4 | 21SS, 22SS, 23SS, 25SS | mg/kg | ND(0.01) to <0.1 | 0.49 ($10^{-6}$ RBC) |
| Heptachlor | 51 | 4 | 21SS, 22SS, 23SS, 25SS | mg/kg | ND(0.01) to <0.1 | 0.14 ($10^{-6}$ RBC) |
| Heptachlor epoxide | 51 | 4 | 21SS, 22SS, 23SS, 25SS | mg/kg | ND(0.01) to <0.1 | 0.07 ($10^{-6}$ RBC) |
| Methoxychlor | 51 | 6 | 20SS, 21SS, 22SS, 23SS, 25SS | mg/kg | ND(0.02) to <0.2 | 390 (HQ=1) |
| Toxaphene | 51 | 10 | 19SS, 20SS, 21SS, 22SS, 23SS, 25SS, 26SS, 30SS, AP-5969 | mg/kg | ND(0.3) to <45 | 0.58 ($10^{-6}$ RBC) |
| Dioxins[a] | 6 | 6 | 12SS, 13SS, 14SS, 15SS, 20SS | pg/g | ND(0.19) to 870 | 0.41 ($10^{-6}$ RBC) |

| | |
|---|---|
| -- | None established |
| $10^{-6}$ RBC | Carcinogenic risk for residential soil exposure |
| ADEC | Alaska Department of Environmental Conservation |
| HLA | Harding Lawson Associates |
| HQ | Hazard quotient, noncarcinogenic risk for residential soil exposure |
| µg/kg | Micrograms per kilogram |
| mg/kg | Milligrams per kilogram |
| ND | Not detected at or above the method reporting limit in parentheses |
| pg/g | Picograms per gram |
| RBC | Risk-based concentration |
| TEQ | Toxicity equivalent concentrations |

a. Although pesticides and dioxins have been detected in soil near former Building 1599, investigation of these chemicals is not included in the scope of work for Operable Unit (OU) 5. Investigation of pesticides and dioxins for Building 1599 is addressed in the OU 1 Remedial Investigation/Feasibility Study Management Plan.
b. The RBC listed is for total polychlorinated biphenyls.
c. Due to matrix interferences, the laboratories' reporting limits were elevated.

The highest concentrations of petroleum compounds were detected in soil samples from a depth of 15 feet (immediately above the water table). Maximum concentrations of GRO (3,620 mg/kg), DRO (12,400 mg/kg), total BTEX (302 mg/kg), and naphthalene (63 mg/kg) were detected in samples from 15 feet in Borings BN-1, BN-1, BN-8, and BN-25, respectively. Borings BN-1 and BN-8 are near the area of former 94,000-gallon ASTs 342 and 343. Boring BN-25 is near two former 25,000-gallon tanks and a truck fill stand.

The soil sampling data suggests that the concentrations of petroleum constituents increase with depth and are typically greatest at or near the groundwater table. In addition, the areal extent of fuel constituents in soil is greatest in the zone immediately above the water table.

## 2.3 East QFS Area

The East QFS area is located between the north flight line and the Chena River, and between Building 1579 to the southwest and Building 1054 to the northeast (Figure 2-8).

The source area includes Buildings 1060, 1565, 1053, 1054, former Building 1567, and former fueling system components including

- A 25,000-gallon gasoline UST south of Building 1060;
- A 10,000-gallon gasoline UST east of Building 1070;
- A fuel station building, a 10,000-gallon gasoline UST, and dispensers along the north side of Gaffney Road;
- A 10,000-gallon gasoline UST and a 25,000-gallon gasoline UST along the south side of Gaffney Road;
- Eight diesel ASTs southwest of former Building 1567 (seven 12,000-gallon tanks and one 10,000-gallon tank);
- Six 25,000-gallon gasoline ASTs and a pump house (Building 1563) southeast of former Building 1567;
- An 8-inch-diameter underground fuel pipeline connecting the system to the Birch Hill tank farm;
- A network of aboveground and buried fuel piping connecting the fueling system components.

In addition to the QFS components described above, a 1,000-gallon diesel UST (208) was near the east side of Building 1060 and a 500-gallon waste oil UST was near the east side of Building 1053. These USTs were not connected to the other components of the QFS.

Each of the USTs and ASTs described above have been removed. The 8-inch diameter fuel pipeline is abandoned, but is still in place; it is unknown whether all other buried piping has been removed.

Buildings 1060, 1053, and 1054 are north of Gaffney Road. Building 1060 is the communications center for Fort Wainwright, and Building 1053 is a single-story building used by the Directorate of Personnel and Community Activities for garaging vehicles and providing warm storage. Building 1054 is a two-story building occupied by the 3rd Air Support Operations Squadron, U.S. Air Force. The ground floor is used for vehicle storage, and the upper floor is used for office space and communications equipment. Building 1565 is north of the airstrip taxiway at the end of Marks Road. This two-story building is currently occupied by the Headquarters Company, Aviation Brigade. Building 1567 (the former facilities engineer maintenance shop) was located northwest of Building 1565, but was removed in 1992.

### 2.3.1 Past Practices

The USTs and ASTs comprising the East QFS were used to store fuel for vehicles and aircraft. The removal dates for the tanks and fueling components are unknown; however, a review of historical aerial photographs indicates the following:

- July 17, 1962 - The fuel station building and associated dispensers along the north side of Gaffney Road are visible. The 10,000- and 12,000-gallon ASTs south of Building 1567

are not shown on these or later aerial photographs (the tanks were apparently removed before July 17, 1962).

- August 10, 1969 - The fuel station building and associated dispensers visible in the July 1962 aerial photographs are present.
- April 30, 1974 - The fuel station building and associated dispensers are no longer present.

Building 1060, the communications center for Fort Wainwright, was constructed in 1945; an addition to the building was constructed in the early 1950s. A 1,000-gallon diesel tank (UST 208) on the east side of Building 1060 (Figure 2-8) stored diesel for a standby generator. UST 208 was installed in 1954 and removed in 1991 (CH2M Hill, 1994b).

According to 1944 base maps, the area around Building 1060 was used for activities including dry cleaning before the construction of Building 1060 (CH2M Hill, 1994a). Dry wells may have been connected to Building 1060 floor drains (CH2M Hill, 1994b).

Building 1565, also known as the North Point petroleum, oils, and lubricants (POL), was constructed in 1950 and used as an automotive maintenance shop through the late 1960s. The building was later used for offices and storage of mobile refueling equipment (1960s to present), and briefly as a fuels testing laboratory (1980 to 1982). Automotive gasoline, jet fuel, and diesel fuel were tested for octane, flash-point, level of additives, and water content (HLA, 1994b).

The ground floor of Building 1565 is currently used by the Aviation Brigade to store mobile refueling equipment, such as fuel bladders and pumps, and to store refueling trucks. The upper floor is used as office space. Southwest of the building is a fenced yard where additional refueling equipment is stored on the ground. A smaller, adjacent fenced yard encompasses the hazardous materials accumulation point, typically containing drums of used vehicle fluids such as oil and contaminated fuel. Fuel bladders have been stored on the ground south of the building in a bermed enclosure. Over the years, petroleum products have been stored, dispensed, and on three reported occasions spilled, at Building 1565 and the adjacent storage yard.

Building 1567 was erected in 1947; on March 25, 1991, the building collapsed under snow. The collapsed building was demolished in 1992 by OHM Remediation Services (HLA, 1994a). The former building consisted of a metal Quonset hut with a concrete slab foundation and floor, with dimensions of approximately 33 feet by 100 feet. The building was originally designated the facilities engineer maintenance shop. The site is identified in the 1958 Master Plan as a motor vehicle storage building (AEC, 1958). It was leased to Alyeska Pipeline Service Company from May 1974 to May 1980. Pesticides were reportedly stored and mixed in the building from 1979 to at least 1983 (ESE, 1983). From 1983 to 1988, the building was used to store wastes and materials, including PCB transformers, chemicals from water testing kits, paints, and solvents (HLA, 1994a).

After the building debris and asbestos were removed during 1992 demolition activities, the concrete floor slab was sandblasted repeatedly and sampled. Low levels of pesticides were detected. Portions of the concrete slab were moved to the Fort Wainwright landfill, but were returned to the remaining concrete slab under the instruction of the USACE representative because of concerns whether the material was a listed hazardous waste. The material was staged on the unbroken slab, covered with 10-mil Visqueen, and fenced using orange barricade fencing (OHM, 1992). During a 1993 site visit, HLA staff observed that the unbroken portion of the slab was still in place. Barricades and concrete demolition debris were no longer present, and loose sandblasting grit was observed. A square depression and a hole in the pad were noted near the west side of the remaining pad (HLA, 1993).

Buildings 1053 and 1054 were constructed in 1947. The Master Plan shows Buildings 1053 and 1054 connected to a 6-inch wood sanitary sewer that terminates as an outfall into the Chena River (AEC, 1958).

Until 1991, Building 1053 was the Fort Wainwright auto craft shop, where vehicle maintenance activities were conducted. A 1949 as-built drawing indicates the building was equipped with two grease pits and an open-air section with numerous floor drains (DPW, 1949). The grease pits were filled with concrete in the 1970s. Three-inch-diameter pipes extend from the floor drains and converge in a "gas trap" that connects to the sewer outside the southwest corner of the building. Waste oil , antifreeze, brake fluid, hydraulic oil, and solvents have reportedly been stored in drums in the yard near the northwest corner of the building, or in the waste oil tank after it was installed in the 1980s. Until the late 1980s, the drums were reportedly "habitually overfilled" (HLA, 1994a). The waste oil tank was excavated and removed in 1993.

Vehicle maintenance activities were also conducted at Building 1054. The building is identified as a base motor pool on the Master Plan (AEC, 1958). The building also reportedly served as a hazardous waste accumulation point for used oil, antifreeze, solvents, and ignitables. An as-built drawing of the floor plan shows an open shop area with three grease pits, offices, a parts room, and a wash rack equipped with a sand trap. The floor drains in the open shop area are connected to a 6-inch pipe that drains into a sand trap. The sand trap is connected to an 8-inch wood-stave pipe labeled "drainage to river" (DPW, 1968-1971). Before the current unit moved into the building, the grease pits were filled with concrete, and the wash rack was removed from service. The Military Engineer unit recently poured concrete aprons and graded the site around the building using imported fill material (HLA, 1994a).

### 2.3.2 Previous Investigations

This section presents a summary of previous investigations performed at the East QFS area, including

- The 1989 and 1992 North Point POL investigations by the USACE (1990 and 1992a,b,c);
- The 1993 Hangar 1 investigation by the USACE (1993, a,b,c);
- The 1993 microwell investigation by the UNH (UNH, 1993; CH2M Hill, 1994a);
- The 1993 Phase II site investigation at Building 1565 performed by HLA (1994b);
- The 1993 OU 1, PSE 2 by HLA (1994a);
- The 1993 site release investigation at Building 1060 by CH2M Hill (1994b);
- The 1994 site assessment for USTs at Building 1060 by Brown & Root Services Corporation (1994);
- The 1994 Building 1060 treatability study by CH2M Hill (1994c);
- The 1994 North Airfield groundwater investigation by HLA (1995).

A summary of past analytical data for the East QFS area is included in Appendix G. Sample locations and a summary of results for soil and groundwater are shown on Figures 2-9 and 2-10.

**North Point POL Investigation** - In August 1989, the USACE drilled five soil borings (AP-5558 through AP-5562) southwest of Building 1565. Borings AP-5558, AP-5559, and AP-5562 were completed as monitoring wells. This study, described in a 1990 memorandum (USACE, 1990), identified impacts to both soil and groundwater. Results of the investigation showed petroleum hydrocarbons in soil (up to 190 mg/kg in AP-5559), and petroleum hydrocarbons and chlorinated solvents in groundwater (up to 720 µg/L DRO and 1,100 µg/L 1,1,1-trichloroethane (1,1,1-TCA) in AP-5558, and 1,591 µg/L total BTEX in AP-5559).

Further sampling and analyses by the USACE at the site in January and June 1992 confirmed that these contaminants and other fuel and solvent constituents were present in soil and groundwater near Building 1565 (USACE, 1992a,b,c).

**Hangar 1 Investigation** - The area around Building 1578, about 300 feet southwest of Building 1565, was investigated in January 1993 by the USACE (1993a,b). Six soil borings were drilled (AP-5861 through AP-5866); one boring (AP-5863) was completed as a monitoring well.

Heavy hydrocarbons, quantitated as bunker oil, were identified in soil from each boring; the highest concentration was 760 mg/kg, detected in a sample from 3.5 to 5 feet in Boring AP-5862. Results of groundwater sampling indicated that hydrocarbons (68 μg/L as diesel) and cis-1,2-dichloroethene (at concentrations far below MCLs) were present in groundwater.

**Microwell Investigation, Building 1575** - A microwell investigation was performed near Building 1575 in 1993 by the UNH (UNH, 1993, CH2M Hill, 1994a). One microwell (1575-PS01, Figure 2-8) was installed to profile the vertical extents of BTEX and trichloroethene (TCE) in groundwater. Groundwater was sampled at the groundwater table (approximately 17 to 18 feet from the ground surface), then every 10 feet to approximately 80 feet. TCE was detected in each sample at concentrations ranging from 1.3 to 2,460 μg/L. Concentrations were highest at the groundwater table and decreased with depth. Toluene was also detected (up to 216 μg/L) in the samples.

**Phase II Site Investigation, Building 1565** - In 1993 HLA conducted an investigation of the area around Building 1565 (HLA, 1994b). The investigation included a geophysical survey to locate drywells in the vicinity of Buildings 1565 and 1567. Fourteen groundwater monitoring wells were installed (seven at 20 feet, six at 50 feet, and one at 100 feet [AP-6181 through AP-6194]), and 38 groundwater survey samples were collected using a Hydropunch sampling tool. A geophysical anomoly that might represent drain pipes leading to a seepage pit was recorded along the south side of Building 1565.

Results of the hydropunch sampling indicated that chlorinated solvents (1,1,1-TCA, cis- and trans-1,2-dichloroethene [-DCE], and 1,1-DCE) and BTEX were present in site groundwater. Samples collected from the groundwater monitoring wells confirmed the results of the hydropunch samples. The highest 1,1,1-TCA concentration in groundwater (650 μg/L) was detected in AP-6183, located south of Building 1576 and west of Building 1565. The only detected concentration of 1,1,1-TCA in soil (100 mg/kg at 20 feet) occurred in AP-6183. Based on these data, the extent of 1,1,1-TCA contamination in soil appears less extensive than in groundwater.

**OU 1, PSE 2** - HLA conducted an investigation of potential soil and groundwater contamination at Buildings 1053 and 1054 as part of the OU 1, PSE 2 (HLA, 1994a). The investigation at Building 1053 included eight surface-soil samples for field screening (1053-1FS through 1053-8FS), three soil borings (AP-5977 through AP-5979) drilled to 15 feet, and one groundwater monitoring well (AP-5977). Petroleum hydrocarbons, VOCs, and semivolatile organic compounds (SVOCs) were detected in site soil at levels below applicable state threshold concentrations. DRO was detected in groundwater from Well AP-5977 at a concentration of 57 μg/L. TCE was also detected in samples collected from this well at a concentration of 1.3 μg/L.

The investigation at Building 1054, located north of Building 1053, included eight surface-soil samples to field screen total petroleum hydrocarbons and PCBs (1054-1FS through 1054-8FS), two soil borings (AP-5980 and AP-5981) to 15 feet, and one groundwater monitoring well (AP-5981). DRO was detected in soil samples from several of the borings. The highest DRO concentration was 950 mg/kg in the surface (0 to 1.5 feet) sample from Boring AP-5980, near the southwest corner of Building 1054. TCE and cis-1,2-DCE were also detected in the surface sample from this boring at 130 μg/kg and 9 μg/kg , respectively. DRO (up to 237 μg/L) was detected in groundwater samples from Monitoring Well AP-5981.

In November 1994, the USACE included Buildings 1053 and 1054 in a No Further Action (NFA) statement (ENSR, 1994) for several sites investigated under OU 1. Under this decision, it was determined that soil at both building sites did not pose unacceptable risks to human health or the environment. The report recommended that groundwater at both sites be further investigated under OU 5.

**Site Release Investigation, Building 1060** - In 1993 CH2M Hill investigated soil and groundwater contamination associated with releases

from UST sites at Fort Wainwright, including the area around former UST 208 (east side of Building 1060 in 1991) (CH2M Hill, 1994b). The project included 18 preliminary borings sampled for soil and groundwater during a screening phase. Based on the screening results, 16 confirmation borings were drilled and sampled in areas of potential contamination. Thirteen of these borings were converted to groundwater monitoring wells (AP-6382 through AP-6394).

During field screening, GRO and DRO were detected in soil and groundwater in the area of the UST 208 excavation and upgradient of the excavation. The confirmation phase focused on identifying potential upgradient sources in soil and groundwater. Laboratory analytical results for the second phase confirmed that GRO and DRO were present at the excavation site and upgradient. Chlorinated solvents (primarily TCE) were detected in soil and groundwater within the tank excavation area but not upgradient.

**Site Assessment, USTs at Building 1060** - In May 1994, Brown and Root Services Corporation (Brown and Root) was contracted to locate and remove two USTs reportedly in the area east of Building 1070 and south of Building 1060 (Brown & Root, 1994). Although approximately 600 cubic yards of debris and petroleum-contaminated soil were ultimately removed from the site, no USTs were located. Soil contained DRO and GRO at maximum concentrations of 1,725 mg/kg and 589 mg/kg, respectively. Brown and Root did locate a portion of the abandoned underground 8-inch-diameter fuel pipeline that runs from the Birch Hill tank farm through the site, and suggested that this was a possible source for the contamination identified at the site. In addition, the nature of the debris encountered in the excavation indicated that a wooden building (possibly the former fuel station building) was demolished at the site. The excavation was filled with clean backfill material and the fuel line was left in place.

**Building 1060 Treatability Study** - CH2M Hill conducted a treatability study at Building 1060 during the summer of 1994 to investigate the feasibility of using soil vapor extraction (SVE) and air sparging systems to remediate petroleum hydrocarbon and solvent contamination. The project involved installing 8 air sparging wells to depths ranging from 20 to 30 feet, 9 SVE wells to 15 feet, and 13 monitoring wells. The maximum detected TCE concentration was 56.2 mg/kg in the sample near the water table (15 feet) in SVE-1 near former UST 208 along the east side of Building 1060. Reportedly, a small solvent spill (less than 5 gallons) occurred in this area after the tank was removed. Treatability study data evaluation is ongoing. Monitoring through August 17, 1994, indicates that the system has removed 81 pounds of hydrocarbons (including chlorinated VOCs).

**North Airfield Groundwater Investigation** - During the 1994 North Airfield groundwater investigation, HLA installed 28 groundwater probes and drilled 6 soil borings (WN-3, WN-4, WN-5, WN-13, WN-14, and BN-17). With the exception of BN-17, each boring was converted to a monitoring well.

Groundwater data from the investigation indicate that groundwater plumes of free product; benzene; 1,1,1-TCA; TCE; cis-1,2-DCE (a degradation product of TCE); DRO; and GRO are present in the East QFS (Figure 2-7). The free-product plume covers approximately 1/4 acre encompassing the area where the former fuel station, dispensers, and 25,000-gallon gasoline tank were located (south of Building 1060 and east of Building 1070). A benzene plume with concentrations greater than 5 $\mu$g/L encompasses approximately 1.5 acres, extending north from Gaffney Road toward the Chena River. A 1,1,1-TCA plume with concentrations greater than 200 $\mu$g/L extends approximately 300 feet northwest from the area near Building 1565. TCE and cis-1,2-DCE plumes originate between Buildings 1053 and 1060 and extend approximately 600 feet to the Chena River. DRO and GRO plumes encompass the East QFS area. The extents of the DRO; GRO; 1,1,1-TCA; TCE; and cis-1,2-DCE plumes have not been defined. The DRO, GRO, and TCE plumes may be impacting the Chena River.

DRO is present in surface soil throughout the area north of Gaffney Road at levels less than 100 mg/kg. The presence of DRO is believed to be primarily from past road oiling practices. The concentration of petroleum hydrocarbons in soil is greater at the groundwater table, suggesting that soil is most impacted in the smear zone affected by seasonal water-level fluctuations. The greatest concentrations of petroleum-related contaminants in soil were detected in Boring BN-17 at a depth of 15 feet. This boring was drilled near the location of the former fuel station and the site of Brown and Root's 1994 excavation; therefore, the fuel station and/or fuel pipeline are presumed to be probable sources. The maximum detected concentrations included 1,2,4-trimethylbenzene at 158,000 μg/kg, 1,3,5-trimethylbenzene at 57,100 μg/kg; ethylbenzene at 10,600 μg/kg; total xylenes at 174,030 μg/kg; GRO at 3,380 mg/kg; and DRO at 1,140 mg/kg.

TCE has been detected in soil and groundwater sampling locations upgradient of SVE-1 (AP-6382 and AP-6383) and downgradient (AP-6296). Except for SVE-1, TCE concentrations were higher in samples collected from 5 feet than from 10 or 15 feet. This distribution pattern for TCE suggests a non-point source (e.g., equipment washing) for the chlorinated solvent contamination. The source or sources of TCE have not been clearly defined, but SVE-1 appears to be near the main area of contaminant release to the soil.

Tables 2-9 through 2-12 present the frequency and range of concentrations for chemicals detected in groundwater at the East QFS area. Tables 2-13 through 2-17 present the frequency and range of chemicals detected in soil at the East QFS area. Potential ARARs have been included in the tables for comparison.

## 2.4 OB/OD Area

The OB/OD site is within the small arms impact area, approximately 1,500 feet north of the Tanana River and 1,500 feet south of the flood control dike (Figure 2-11). The site is located along the east side of a gravel borrow pit filled with water.

### 2.4.1 Past Practices

The OB/OD area was reportedly used by the Army and Air Force for disposing of unexploded and dud ordnance (UXO), unused propellants (black powder), rocket motors, small arms ammunition, and other hazardous materials. The site was used from the mid-1960s through 1986.

### 2.4.2 Previous Investigations

The only known previous investigation performed at the OB/OD area was a USACE limited field investigation in September 1994. Eight soil samples (from depths of approximately 3 to 6 inches) and one water sample (from a detonation crater), with appropriate QA/QC duplicates, were collected from eight locations within the site. The sampling locations were selected by the USACE based on observations and on recommendations of onsite Army ordnance experts familiar with the area. The remedial program managers (RPMs) agreed the sampling locations were adequate to reach a decision point. The goal of the sampling event was to identify worst-case contamination. Soil samples were analyzed for halogenated volatile organics, DRO, explosives, chloroacetic acid, thiodiglycol, organosulfur compounds, PCBs, and pesticides. DRO and the organosulfur compound p-chlorophenyl methyl sulfoxide were the only analytes detected. No analyses were performed for metals.

DRO was detected in four soil samples at concentrations ranging from 5.3 mg/kg to 21.0 mg/kg (well below the most restrictive potential ARAR of 100 mg/kg for DRO), and in the water sample from the detonation crater at a concentration of 190 μg/L. The organosulfur compound, p-chlorophenyl methyl sulfoxide, was detected in four soil samples at concentrations ranging from 59 μg/kg to 657 μg/kg. This material is a potential decomposition product associated with the herbicide Planavin. No ARARs have been identified for p-chlorophenyl methyl sulfoxide. No analyses were performed for metals. Sample locations and a summary of results for soil and water are shown on Figure 2-12.

**Table 2-9. Concentration Ranges of Analytes Detected in Groundwater Samples from the 1994 North Airfield Groundwater Investigation at East Section, Former Quartermaster's Fueling System Source Area**

| Analyte | Number of Project Samples Collected | Number of Samples with Detectable Concentrations | Location | Units | Range of Concentrations | Risk-Based* Concentration or Action Level |
|---|---|---|---|---|---|---|
| Diesel-Range Organics | 13 | 12 | 106002, 106005, 106007, 106008, 106009, AP-6183, AP-6192, WN3, WN4, WN5, WN13, WN14 | mg/L | ND(0.05) to 9.8 | -- |
| Gasoline-Range Organics | 13 | 11 | 106002, 106005, 106007, 106008, 106009, AP-6183, WN3, WN4, WN5, WN13, WN14 | mg/L | ND(0.05) to 2.6 | -- |
| Volatile Organic Compounds | | | | | | |
| 1,1,1-Trichloroethane | 13 | 3 | 106005, AP-6183, AP-6186 | µg/L | ND(1) to 590 | 200 (MCL) |
| 1,1-Dichloroethane | 13 | 1 | AP-6186 | µg/L | ND(1) to 1.4 | 810 (HQ=1) |
| 1,1-Dichloroethene | 13 | 1 | AP-6183 | µg/L | ND(1) to 2.8 | 0.044 ($10^{-6}$ RBC) |
| 1,2,4-Trichlorobenzene | 13 | 1 | 106009 | µg/L | ND(1) to 2.7 | 70 (MCL) |
| 1,2,4-Trimethylbenzene | 13 | 9 | 106002, 106005, 106007, 106008, WN3, WN4, WN5, WN13, WN14 | µg/L | ND(1) to 350 | 3 (HQ=1) |
| 1,3,5-Trimethylbenzene | 13 | 8 | 106002, 106005, 106007, 106008, WN3, WN5, WN13, WN14 | µg/L | ND(1) to 100 | 2.4 (HQ=1) |
| Benzene | 13 | 4 | 106008, 106009, AP-6183, WN13 | µg/L | ND(1) to 27 | 0.36 ($10^{-6}$ RBC) |
| Dichlorodifluoromethane | 13 | 1 | 106007 | µg/L | ND(1) to 1.5 | 390 (HQ=1) |
| Ethylbenzene | 13 | 6 | 106005, 106007, 106008, 106009, WN5, WN14 | µg/L | ND(1) to 90 | 700 (MCL) |
| Isopropylbenzene | 13 | 8 | 106005, 106007, 106008, 106009, WN3, WN5, WN13, WN14 | µg/L | ND(1) to 22 | 1,500 (HQ=1) |
| Methylene chloride | 13 | 3 | AP-6186, WN3, WN4 | µg/L | ND(1) to 1.4 | 4.1 ($10^{-6}$ RBC) |
| Naphthalene | 13 | 8 | 106005, 106007, 106008, 106009, WN3, WN4, WN5, WN14 | µg/L | ND(1) to 39 | 1,500 (HQ=1) |
| Toluene | 13 | 2 | 106008, WN14 | µg/L | ND(1) to 100 | 750 (HQ=1) |
| Trichloroethene | 13 | 5 | 106005, AP-6183, AP-6186, WN3, WN4 | µg/L | ND(1) to 430 | 1.6 ($10^{-6}$ RBC) |
| Trichlorofluoromethane | 13 | 4 | 106005, 106007, 106008, 106009 | µg/L | ND(1) to 4.9 | -- |

**Table 2-9. Concentration Ranges of Analytes Detected in Groundwater Samples from the 1994 North Airfield Groundwater Investigation at East Section, Former Quartermaster's Fueling System Source Area (continued)**

| Analyte | Number of Project Samples Collected | Number of Samples with Detectable Concentrations | Location | Units | Range of Concentrations | Risk-Based* Concentration or Action Level |
|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | 13 | 4 | 106005, AP-6186, WN3, WN4 | µg/L | ND(1) to 120 | 61 (HQ=1) |
| m & p-Xylene | 13 | 8 | 106005, 106007, 106008, 106009, WN3, WN4, WN5, WN14 | µg/L | ND(1) to 410 | 160,000 (HQ=1) (Total) |
| n-Propylbenzene | 13 | 6 | 106005, 106007, 106008, WN5, WN13, WN14, | µg/L | ND(1) to 47 | 960 (HLA RBC) |
| n-Butylbenzene | 13 | 2 | 106007, 106008 | µg/L | ND(1) to 10 | -- |
| o-Xylene | 13 | 4 | 106005, 106008, 106009, WN14 | µg/L | ND(1) to 29 | 160,000 (HQ=1) |
| p-Isopropyltoluene | 13 | 4 | 106005, 106007, WN3, WN5 | µg/L | ND(1) to 36 | 15,400 (HLA RBC) |
| sec-Butylbenzene | 13 | 7 | 106005, 106007, 106008, 106009, WN3, WN5, WN13 | µg/L | ND(1) to 33 | 61 (HQ=1) |
| trans-1,2-Dichloroethene | 13 | 2 | AP-6186, WN4 | µg/L | ND(1) to 2.9 | 100 (MCL) |

* The risk-based concentrations or action levels included in this table generally represent the most restrictive of either primary drinking water MCLs or U.S. Environmental Protection Agency Region 3 RBCs. This table does not include action levels presented in the Alaska Water Quality Standard Regulations, which may be more restrictive. Refer to Appendix D for a more comprehensive discussion of potential applicable or relevant and appropriate requirements.

| | |
|---|---|
| -- | None established |
| $10^{-6}$ RBC | Carcinogenic risk for residential tap water exposure |
| HLA | Harding Lawson Associates |
| HQ | Hazard quotient, noncarcinogenic risk for residential tap water exposure |
| MCL | Maximum contaminant level |
| mg/L | Milligrams per liter |
| ND | Not detected at or above the method reporting limit in parentheses |
| QC | Quality control |
| RBC | Risk-based concentration |
| µg/L | Micrograms per liter |

## Table 2-10. Concentration Ranges of Analytes Detected in Building 1567 Groundwater Samples

| Analyte | Number of Project Samples Collected | Number of Samples with Detectable Concentrations | Location | Units | Range of Concentrations | Risk-Based* Concentration or Action Level |
|---|---|---|---|---|---|---|
| Diesel-Range Organics | 2 | 2 | AP-5982 | µg/L | 81 to 93 | -- |
| Volatile Organic Compounds | | | | | | |
| Acetone | 2 | 1 | AP-5982 | µg/L | ND(2) to 3 | 3,700 (HQ=1) |

* The risk-based concentrations or action levels included in this table generally represent the most restrictive of either primary drinking water MCLs or U.S. Environmental Protection Agency Region 3 RBCs. This table does not include action levels presented in the Alaska Water Quality Standard Regulations, which may be more restrictive. Refer to Appendix D for a more comprehensive discussion of potential applicable or relevant and appropriate requirements.

-- None established
HQ Hazard quotient, noncarcinogenic risk for residential tap water exposure
µg/L Micrograms per liter
ND Not detected at or above the method reporting limit in parentheses

## Table 2-11. Concentration Ranges of Analytes Detected in Building 1053 Groundwater Samples

| Analyte | Number of Project Samples Collected | Number of Samples with Detectable Concentrations | Location | Units | Range of Concentrations | Risk-Based* Concentration or Action Level |
|---|---|---|---|---|---|---|
| Diesel-Range Organics | 2 | 2 | AP-5977 | µg/L | 57 | -- |
| Volatile Organic Compounds | | | | | | |
| Trichloroethene | 2 | 2 | AP-5977 | µg/L | 1.2 to 1.3 | 1.6 ($10^{-6}$ RBC) |
| Metals | | | | | | |
| Arsenic | 2 | 2 | AP-5977 | µg/L | 7 to 8 | 0.038 ($10^{-6}$ RBC) |
| Barium | 2 | 2 | AP-5977 | µg/L | 209 to 212 | 2,000 (MCL) |
| Lead | 2 | 1 | AP-5977 | µg/L | ND(2) to 4 | 0.0037 (HQ=1) |

* The risk-based concentrations or action levels included in this table generally represent the most restrictive of either primary drinking water MCLs or U.S. Environmental Protection Agency Region 3 RBCs. This table does not include action levels presented in the Alaska Water Quality Standard Regulations, which may be more restrictive. Refer to Appendix D for a more comprehensive discussion of potential applicable or relevant and appropriate requirements.

| | |
|---|---|
| -- | None established |
| $10^{-6}$ RBC | Carcinogenic risk for residential tap water exposure |
| EPA | U.S. Environmental Protection Agency |
| HQ | Hazard quotient, noncarcinogenic risk for residential tap water exposure |
| µg/L | Micrograms per liter |
| MCL | Maximum contaminant level |
| ND | Not detected at or above the method reporting limit in parentheses |
| RBC | Risk-based concentration |

## Table 2-12. Concentration Ranges of Analytes Detected in Building 1054 Groundwater Samples

| Analyte | Number of Project Samples Collected | Number of Samples with Detectable Concentrations | Location | Units | Range of Concentrations | Risk-Based* Concentration or Action Level |
|---|---|---|---|---|---|---|
| Diesel-Range Organics | 2 | 2 | AP-5981 | µg/L | 227 to 237 | -- |
| Barium | 2 | 2 | AP-5981 | µg/L | 184 to 186 | 2,000 (MCL) |

* The risk-based concentrations or action levels included in this table generally represent the most restrictive of either primary drinking water MCLs or U.S. Environmental Protection Agency Region 3 RBCs. This table does not include action levels presented in the Alaska Water Quality Standard Regulations, which may be more restrictive. Refer to Appendix D for a more comprehensive discussion of potential applicable or relevant and appropriate requirements.

-- None established
MCL Maximum contaminant level
µg/L Micrograms per liter

## Table 2-13. Concentration Ranges of Analytes Detected in Soil Samples from the 1994 North Airfield Groundwater Investigation East Section, Former Quartermaster's Fueling System Source Area

| Analyte | Number of Project Samples Collected | Number of Samples with Detectable Concentrations | Location | Units | Range of Concentrations | Risk-Based Concentration or Action Level |
|---|---|---|---|---|---|---|
| Diesel-Range Organics | 29 | 10 | WN3, WN4, WN5, WN13, WN14, BN17 | mg/kg | ND (4.1) to 1,140 | 100 (ADEC) |
| Gasoline-Range Organics | 29 | 7 | WN3, WN5, WN14, BN17 | mg/kg | ND (1) to 3,380 | 50 (ADEC) |
| Volatile Organic Compounds | | | | | | |
| 1,2,4-Trimethylbenzene | 29 | 5 | WN4, WN14, BN17 | µg/kg | ND (5.1) to 200,000 | 39 (HQ=1) |
| 1,3,5-Trimethylbenzene | 29 | 4 | WN14, BN17 | µg/kg | ND (5.1) to 57,100 | 31 (HQ=1) |
| Ethylbenzene | 29 | 2 | BN17 | µg/kg | ND (5.1) to 10,600 | 7,800 (HQ=1) |
| Isopropylbenzene | 29 | 2 | BN17 | µg/kg | ND (5.1) to 4,230 | 3,100 (HQ=1) |
| Methylene chloride | 29 | 17 | WN3, WN4, WN5, WN13, WN14 | µg/kg | ND (5.2) to 13 | 85 (HQ=1) |
| Naphthalene | 29 | 5 | WN3, WN5, BN17 | µg/kg | ND (5.1) to 45,400 | 3,100 (HQ=1) |
| Toluene | 29 | 3 | BN17 | µg//kg | ND (5.1) to 9,830 | 16,000 (HQ=1) |
| m & p-Xylene | 29 | 4 | WN14, BN17 | µg/kg | ND (5.1) to 100,000 | 160,000 (HQ=1) (Total) |
| n-Butylbenzene | 29 | 1 | WN5 | µg/kg | ND (5.1) to 198 | -- |
| n-Propylbenzene | 29 | 3 | BN17 | µg/kg | ND (5.1) to 10,500 | 5,480,000 (HLA RBC) |
| o-Xylene | 29 | 3 | BN17 | µg/kg | ND (5.1) to 47,600 | 160,000 (HQ=1) |
| p-Isopropyltoluene | 29 | 6 | WN5, WN14, BN17 | µg/kg | ND (5.1) to 6,760 | 48,000,000 (HLA RBC) |
| sec-Butylbenzene | 29 | 3 | WN5, BN17 | µg/kg | ND (5.1) to 3,490 | 780 (HQ = 1) |
| Metals | | | | | | |
| Lead (GFAA) | 29 | 29 | WN3, WN4, WN5, WN13, WN14, BN17 | mg/kg | ND (5.1) to 32 | 400 (EPA) |

| | |
|---|---|
| -- | None established |
| $10^{-6}$ RBC | Carcinogenic risk for residential soil exposure |
| ADEC | Alaska Department of Environmental Conservation |
| EPA | U.S. Environmental Protection Agency |
| GFAA | Graphite furnace atomic absorption |
| HLA | Harding Lawson Associates |
| HQ | Hazard quotient, noncarcinogenic risk for residential soil exposure |
| µg/kg | Micrograms per kilogram |
| mg/kg | Milligrams per kilogram |
| ND | Not detected at or above the method reporting limit in parentheses |
| RBC | Risk-based concentration |

## Table 2-14. Concentration Ranges of Analytes Detected in 1993 Building 1565 Soil Samples

| Analyte | Number of Project Samples Collected | Number of Samples with Detectable Concentrations | Location | Units | Range of Concentrations | Risk-Based Concentration or Action Level |
|---|---|---|---|---|---|---|
| Diesel-Range Organics | 6 | 5 | AP-6181, AP-6183, AP-6189, AP-6193, AP-6193A | mg/kg | ND(4.9) to 100 | 100 (ADEC) |
| Gasoline-Range Organics | 6 | 3 | AP-6183, AP-6188, AP-6189 | mg/kg | ND(1.1) to 49 | 50 (ADEC) |
| Total Recoverable Petroleum Hydrocarbons | 6 | 5 | AP-6181, AP-6183, AP-6189, AP-6193, AP-6193A | mg/kg | ND(11) to 953 | -- |
| Volatile Organic Compounds | | | | | | |
| 1,1,1-Trichloroethane | 42 | 1 | AP-6183 | mg/kg | ND(5.2) to 100 | 7,000 (HQ=1) |
| 1,2,4-Trimethylbenzene | 42 | 2 | AP-6189, AP-6193A | mg/kg | ND(5.2) to 751 | 39 (HQ=1) |
| 1,3,5-Trimethylbenzene | 42 | 3 | AP-6189, AP-6193, AP-6193A | mg/kg | ND(5.2) to 837 | 31 (HQ=1) |
| 2-Butanone | 42 | 2 | AP-6188, AP-6193 | mg/kg | ND(10) to 71 | 47,000 (HQ=1) |
| Acetone | 42 | 3 | AP-6188, AP-6189, AP-6193A | mg/kg | ND(10) to 264 | 7,800 (HQ=1) |
| Benzene | 42 | 1 | AP-6193A | mg/kg | ND(6.2) to 17 | 0.1 (ADEC) |
| Ethylbenzene | 42 | 2 | AP-6189, AP-6193A | mg/kg | ND(5.2) to 160 | 7,800 (HQ=1) |
| Isopropylbenzene | 42 | 3 | AP-6183, AP-6189, AP-6193A | mg/kg | ND(5.2) to 11 | 3,100 (HQ=1) |
| Methylene chloride | 42 | 7 | AP-6183, AP-6185, AP-6186, AP-6189, AP-6193, AP-6193A | mg/kg | ND(6.2) to 15 | 85 ($10^{-6}$ RBC) |
| m & p-Xylene | 42 | 2 | AP-6189, AP-6193A | mg/kg | ND(5.2) to 776 | 48,000 (HLA RBC) |
| o-Xylene | 42 | 2 | AP-6189, AP-6193A | mg/kg | ND(5.2) to 49 | 48,000 (HLA RBC) |
| Naphthalene | 42 | 1 | AP-6189 | mg/kg | ND(6.6) to 27 | 3,100 (HQ=1) |
| n-Propylbenzene | 42 | 1 | AP-6189 | mg/kg | ND(6.6) to 127 | 54,800 (HLA RBC) |
| p-Isopropyltoluene | 42 | 1 | AP-6189 | mg/kg | ND(6.6) to 70 | 548,000 (HLA RBC) |
| sec-Butylbenzene | 42 | 1 | AP-6189 | mg/kg | ND(6.6) to 79 | 780 (HQ=1) |
| Toluene | 42 | 3 | AP-6185, AP-6186, AP-6193A | mg/kg | ND(5.5) to 13 | 16,000 (HQ=1) |
| Metals | | | | | | |
| Lead | 6 | 6 | AP-6181, AP-6183, AP-6188, AP-6189, AP-6193, AP-6193A | mg/kg | 4.5 to 18 | 400 (EPA) |

| | |
|---|---|
| -- | None established |
| $10^{-6}$ RBC | Carcinogenic risk for residential soil exposure |
| ADEC | Alaska Department of Environmental Conservation |
| HLA | Harding Lawson Associates |
| HQ | Hazard quotient, noncarcinogenic risk for residential soil exposure |
| mg/kg | Milligrams per kilogram |
| ND | Not detected at or above the method reporting limit in parentheses |
| RBC | Risk-based concentration |

## Table 2-15. Concentration Ranges of Analytes Detected in 1993 Building 1567 Soil Samples

| Analyte | Number of Project Samples Collected | Number of Samples with Detectable Concentrations | Location | Units | Range of Concentrations | Risk-Based Concentration or Action Level |
|---|---|---|---|---|---|---|
| Volatile Organic Compounds | | | | | | |
| 2-Butanone (MEK) | 4 | 2 | AP-5982 | µg/kg | ND(10) to 34 | 47,000 (HQ=1) |
| 2-Hexanone | 4 | 2 | AP-5982 | µg/kg | ND(10) to 63 | -- |
| 4-Methyl-2-pentanone (MIBK) | 4 | 1 | AP-5982 | µg/kg | ND(10) to 27 | 6,300 (HQ=1) |
| Acetone | 4 | 1 | AP-5982 | µg/kg | ND(50) to 74 | 7,800 (HQ=1) |
| Polychlorinated Biphenyls | | | | | | |
| 4,4'-Dichlorodiphenyldichloroethane | 4 | 1 | AP-5982 | mg/kg | ND(0.01) to <0.09 | 2.7 ($10^{-6}$ RBC) |
| 4,4'-Dichlorodiphenyldichloroethene | 4 | 1 | AP-5982 | mg/kg | ND(0.01) to 0.02 | 1.9 ($10^{-6}$ RBC) |
| 4,4'-Dichlorodiphenyltrichloroethane | 4 | 1 | AP-5982 | mg/kg | ND(0.01) to 1.2 | 1.9 ($10^{-6}$ RBC) |
| Aldrin | 4 | 1 | AP-5982 | mg/kg | ND(0.01) to 0.52 | 0.038 ($10^{-6}$ RBC) |
| Alpha-Benzene hexachloride (BHC) | 4 | 1 | AP-5982 | mg/kg | ND(0.01) to 0.01 | 0.1 ($10^{-6}$ RBC) |
| Chlordane | 4 | 1 | AP-5982 | mg/kg | ND(0.01) to <2 | 0.49 ($10^{-6}$ RBC) |
| Dieldrin | 4 | 1 | AP-5982 | mg/kg | ND(0.01) to 0.03 | 0.04 ($10^{-6}$ RBC) |
| Endosulfan II | 4 | 1 | AP-5982 | mg/kg | ND(0.01) to <0.2 | 10 (HQ=1) |
| Endrin | 4 | 1 | AP-5982 | mg/kg | ND(0.01) to 0.5 | 23 (HQ=1) |
| Endrin aldehyde | 4 | 1 | AP-5982 | mg/kg | ND(0.01) to <0.2 | 80 (HQ=1) |
| Gamma-BHC (lindane) | 4 | 1 | AP-5982 | mg/kg | ND(0.01) to 0.02 | 0.49 ($10^{-6}$ RBC) |
| Heptachlor | 4 | 1 | AP-5982 | mg/kg | ND(0.01) to 0.01 | 0.14 ($10^{-6}$ RBC) |
| Toxaphene | 4 | 1 | AP-5982 | mg/kg | ND(0.03) to <2 | 0.58 ($10^{-6}$ RBC) |

| | |
|---|---|
| -- | None established |
| $10^{-6}$ RBC | Carcinogenic risk for residential soil exposure |
| HQ | Hazard quotient, noncarcinogenic risk for residential exposure |
| µg/kg | Micrograms per kilogram |
| mg/kg | Milligrams per kilogram |
| ND | Not detected at or above the method reporting limit in parentheses. |
| RBC | Risk-based concentration |

## Table 2-16. Concentration Ranges of Analytes Detected in 1993 Building 1053 Soil Samples

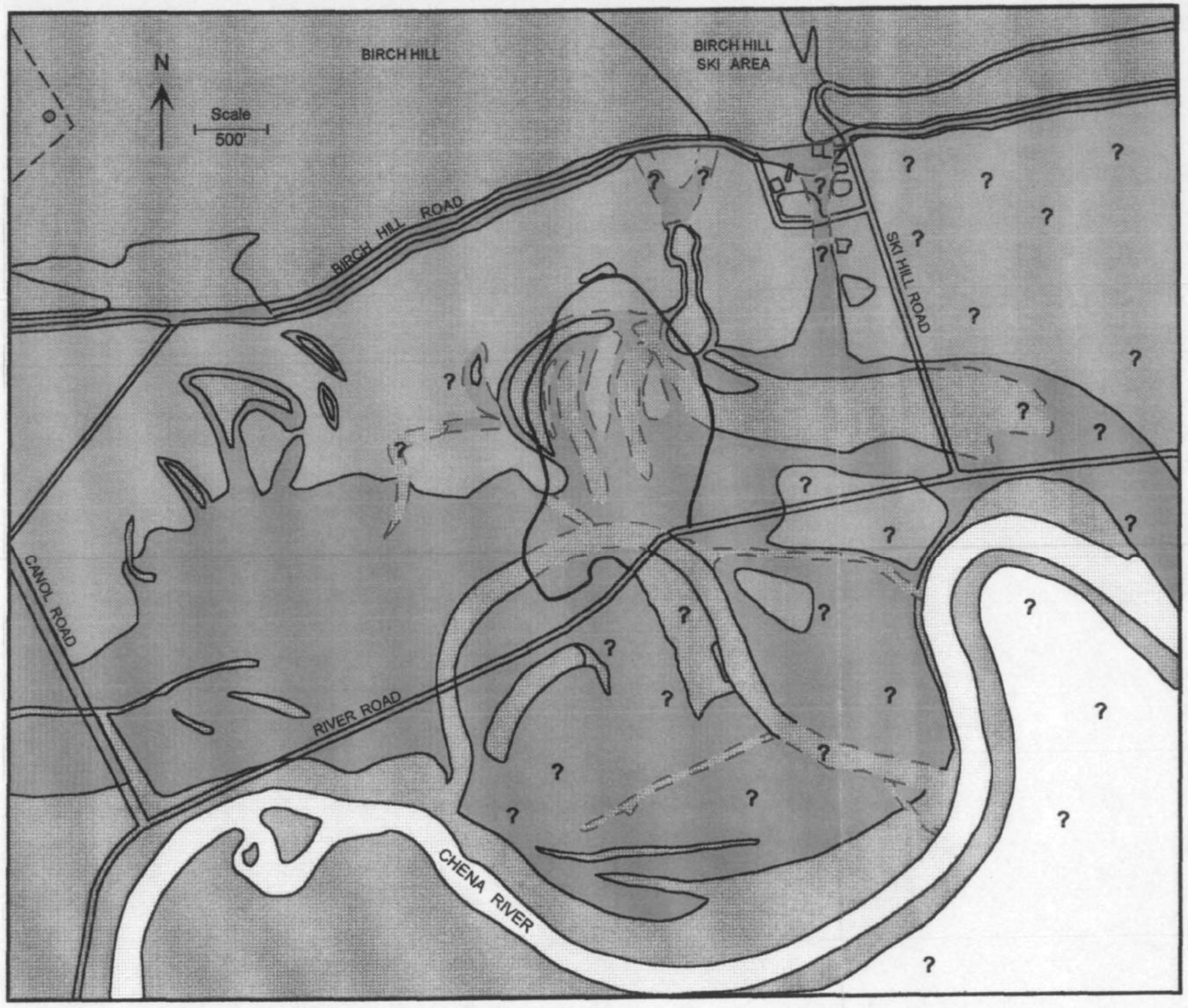
| Analyte | Number of Project Samples Collected | Number of Samples with Detectable Concentrations | Location | Units | Range of Concentrations | Risk-Based Concentration or Action Level |
|---|---|---|---|---|---|---|
| Diesel-Range Organics | 12 | 9 | AP-5977, AP-5978, AP5979 | mg/kg | ND (10) to 830 | 100 (ADEC) |
| Volatile Organic Compounds | | | | | | |
| 1,2-Dichlorobenzene | 12 | 1 | AP-5978 | µg/kg | ND(5) to 5 | 7,000 (HQ=1) |
| Acetone | 12 | 1 | AP-5977 | µg/kg | ND(50) to 62 | 7,800 (HQ=1) |
| Naphthalene | 12 | 1 | AP-5977 | µg/kg | ND(20) to 23 | 3,100 (HQ=1) |
| Total Xylenes | 12 | 1 | AP-5978 | µg/kg | ND(5) to 6 | 160,000 (HQ=1) |
| Metals | | | | | | |
| Arsenic | 12 | 12 | AP-5977, AP-5978, AP5979 | mg/kg | 2 to 11 | 0.37 ($10^{-6}$ RBC) |
| Barium | 12 | 12 | AP-5977, AP-5978, AP5979 | mg/kg | 38 to 134 | 5,500 (HQ=1) |
| Chromium | 12 | 12 | AP-5977, AP-5978, AP5979 | mg/kg | 6 to 25 | -- |
| Lead | 12 | 12 | AP-5977, AP-5978, AP5979 | mg/kg | 3 to 85 | 400 (EPA) |

| | |
|---|---|
| -- | None established |
| $10^{-6}$ RBC | Carcinogenic risk for residential soil exposure |
| ADEC | Alaska Department of Environmental Conservation |
| EPA | U.S. Environmental Protection Agency |
| HQ | Hazard quotient, noncarcinogenic risk for residential exposure |
| µg/kg | Micrograms per kilogram |
| mg/kg | Milligrams per kilogram |
| ND | Not detected at or above the method reporting limit in parentheses |
| RBC | Risk-based concentration |

## Table 2-17. Concentration Ranges of Analytes Detected in 1993 Building 1054 Soil Samples

| Analyte | Number of Project Samples Collected | Number of Samples with Detectable Concentrations | Location | Units | Range of Concentrations | Risk-Based Concentration or Action Level |
|---|---|---|---|---|---|---|
| Diesel-Range Organics | 9 | 4 | AP-5980, AP-5981 | mg/kg | ND(10) to 950 | 100 (ADEC) |
| Volatile Organic Compounds | | | | | | |
| Trichloroethene (TCE) | 9 | 1 | AP-5980 | µg/kg | ND(5) to 130 | 58 ($10^{-6}$ RBC) |
| cis-1,2-Dichloroethene | 9 | 1 | AP-5980 | µg/kg | ND(5) to 9 | 780 (HQ=1) |
| Metals | | | | | | |
| Arsenic | 9 | 9 | AP-5980, AP-5981 | mg/kg | 2 to 10 | 0.37 ($10^{-6}$ RBC) |
| Barium | 9 | 9 | AP-5980, AP-5981 | mg/kg | 45 to 106 | 5,500 (HQ =1) |
| Chromium | 9 | 9 | AP-5980, AP-5981 | mg/kg | 9 to 17 | -- |
| Lead | 9 | 9 | AP-5980, AP-5981 | mg/kg | 2 to 24 | 400 (EPA) |

| | |
|---|---|
| -- | None established |
| $10^{-6}$ RBC | Carcinogenic risk for residential soil exposure |
| ADEC | Alaska Department of Environmental Conservation |
| EPA | U.S. Environmental Protection Agency |
| HQ | Hazard quotient, noncarcinogenic risk for residential exposure |
| µg/kg | Micrograms per kilogram |
| mg/kg | Milligrams per kilogram |
| ND | Not detected at or above the method reporting limit in parentheses. |
| RBC | Risk-based concentration |




**Preliminary Generalized Map of Permafrost and Ground Water Conditions at Depth**
**Interim Draft - Subject To Revision**
**1/17/95**

Permafrost Absent
Sediments unfrozento bedrock; water bearing; bedrock presumed unfrozen

Permafrost Present to Unspecified Depth
Sediments thawed between permafrost and bedrock; subpermafrost aquifer present.

Permafrost Generally Extends Through Sediments into Bedrock at an Unspecified Depth
Water not encountered during drilling through weathered bedrock surface; locally sporadic and discontinuous thaw zones may be present at the sediment-bedrock interface, especially near unfrozen areas and adjacent to the subpermafrost aquifer.

Based Upon Limited Data

? Speculative; Data Lacking

Active Landfill Area

Map created upon unrectified aerial photographs taken 5/20/93.

CRREL

U.S Army
Cold Regions Research
and Engineering Laboratory
Hanover, NH

Harding Lawson Associates
Engineering and
Environmental Services

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ANCHORAGE, ALASKA

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DRAWN: JP
TRACED:
CHECKED:
SUBMITTED:
CHIEF, ARCHITECTURAL SECTION
RECOMMENDED:
CHIEF, MILITARY TECHNICAL ENGINEERING BRANCH

Fort Wainwright, Alaska
OU 5, RI/FS Management Plan

**Distribution of Permafrost**

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CHIEF, ENGINEERING DIVISION
DATE: 1/95
SCALE: NOTED
SPEC. NO.
FIGURE
**2-1**

195j

FAIRBANKS

CHENA RIVER

EAST SECTION, FORMER QUARTERMASTER'S FUELING SYSTEM AREA

WEST SECTION, FORMER QUARTERMASTER'S FUELING SYSTEM AREA

330 332 334 336 338 440 442

MONTEREY AVE

SOUTH GATE HOUSE

RICHARDSON HWY

BARNER ROAD

ARCTIC SURPLUS

DENNIS MANOR SUBDIVISION

GROUNDWATER FLOW DIRECTION

GROUNDWATER FLOW DIRECTION

FLOOD CONTROL DIKE

POND (FORMER BORROW AREA)

OPEN BURNING/OPEN DETONATION AREA

GOOSE ISLAND

TANANA RIVER

MERIDIAN ISLAND

NORTH

0 1250 2500 5000

SCALE IN FEET

REFERENCE:

DRAFT FORT WAINWRIGHT 1993 GROUNDWATER SUMMARY REPORT, FAIRBANKS, ALASKA, JUNE 3, 1994. DRAWING NUMBER 1, GROUNDWATER ELEVATION CONTOURS (JULY 1993)

NOTE:

GROUNDWATER ELEVATION CONTOURS SOUTH OF THE RICHARDSON HIGHWAY ARE INFERRED FROM DATA PRESENTED ON FIGURE 6 OF U.S.G.S. OPEN-FILE REPORT 78-959, HYDROLOGIC INFORMATION FOR LAND-USE PLANNING, FAIRBANKS VICINITY, ALASKA 1978.

LEGEND

- ROADS AND PARKING, PAVED
- ROADS AND PARKING, UNPAVED
- RESERVATION BOUNDARY
- RAILROAD
- STREAM
- SHORELINE
- TRAIL
- BRIDGE
- 440 GROUNDWATER ELEVATION CONTOUR

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RECOMMENDED:
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Fort Wainwright, Alaska
OU 5, RI/FS Management Plan

**Site Map**
**Regional Groundwater Flow**

APPROVED:
CHIEF, ENGINEERING DIVISION

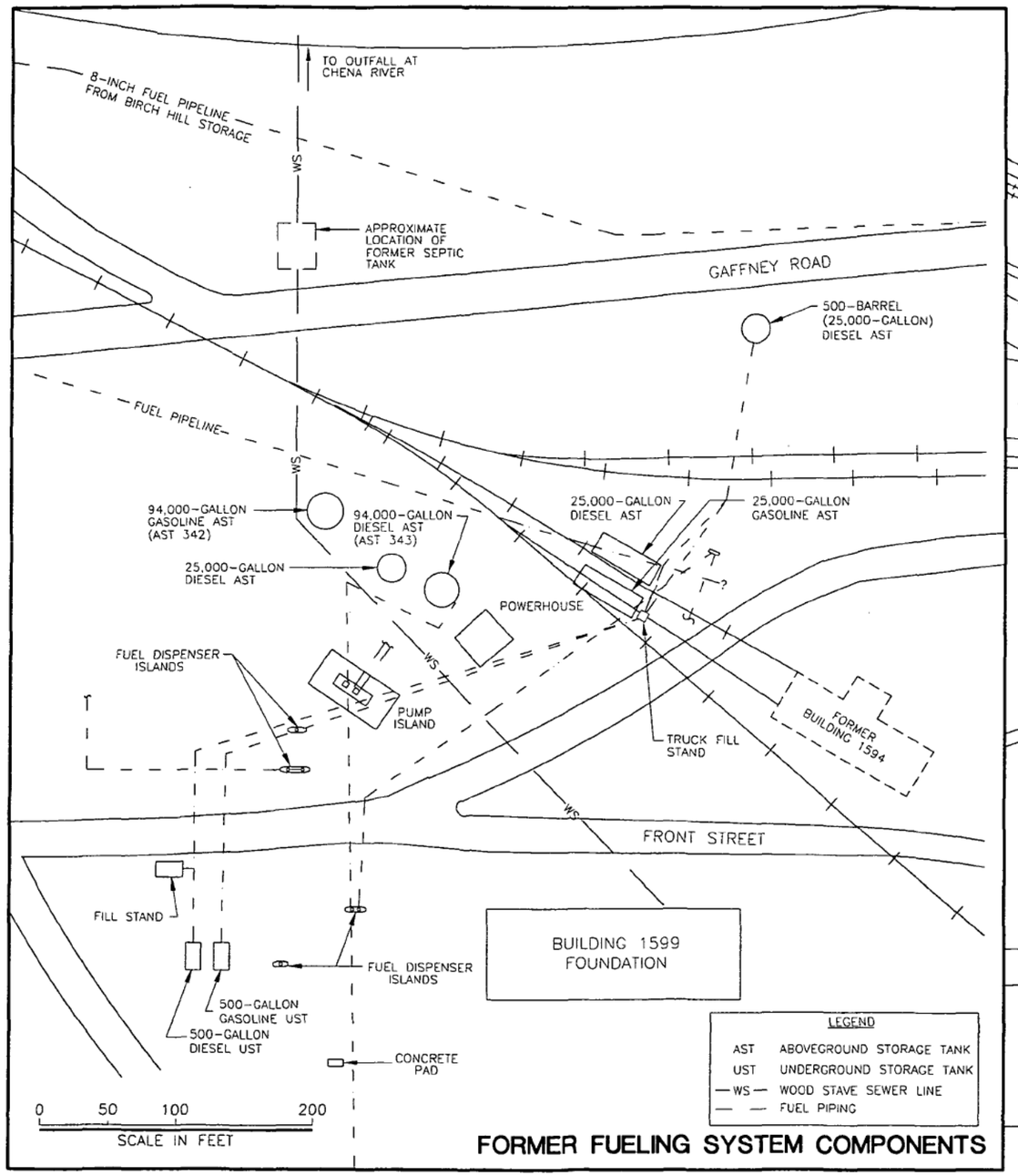
DATE: 1/95

SCALE: NOTED

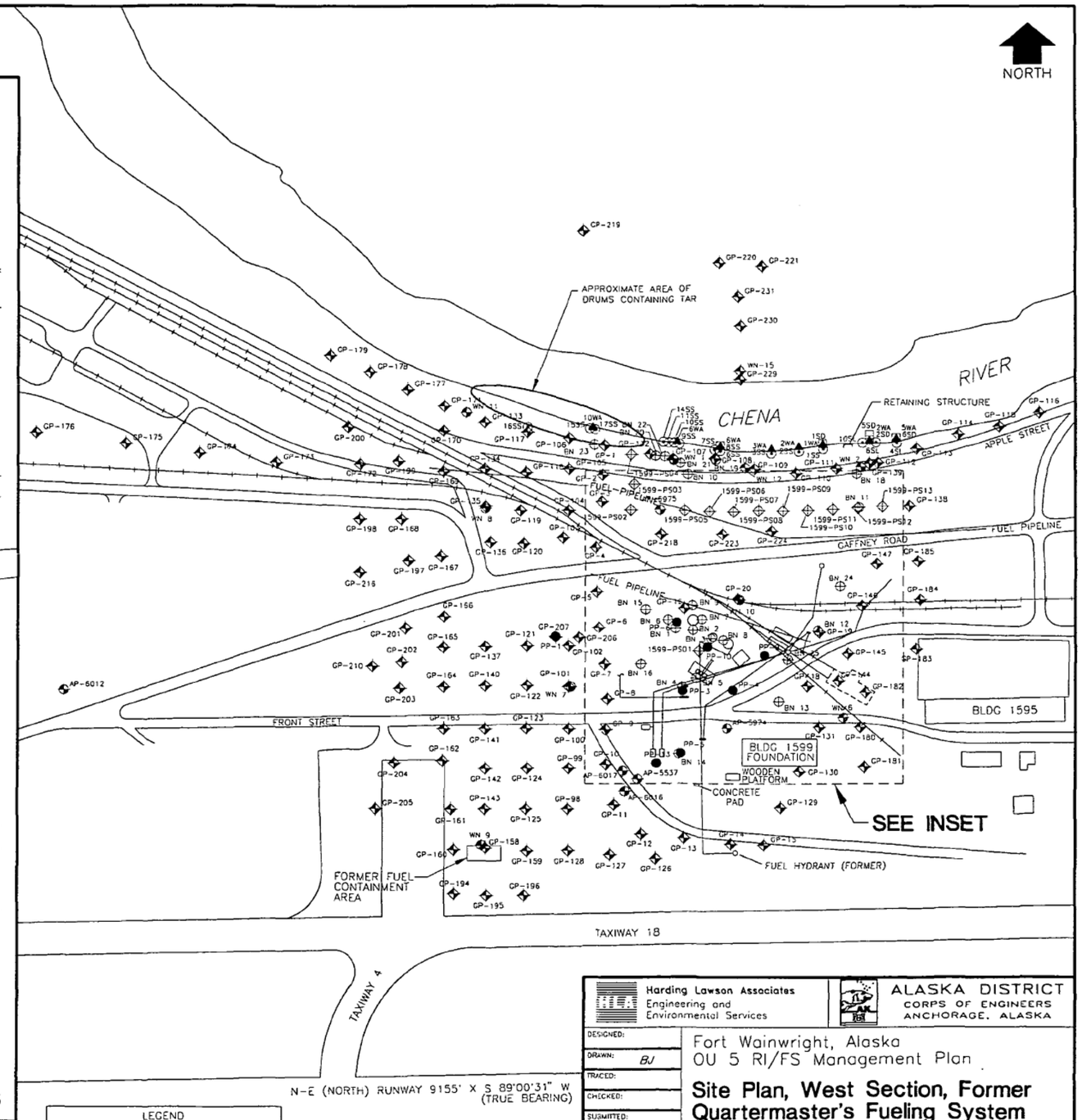
SPEC. NO.

FIGURE
**2-2**

119b




FORMER FUELING SYSTEM COMPONENTS

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DRAWN: BJ
TRACED:
CHECKED:
SUBMITTED:
CHIEF, ARCHITECTURAL SECTION

Fort Wainwright, Alaska
OU 5 RI/FS Management Plan

**Site Plan, West Section, Former Quartermaster's Fueling System**

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APPROVED: PCR
CHIEF, ENGINEERING DIVISION

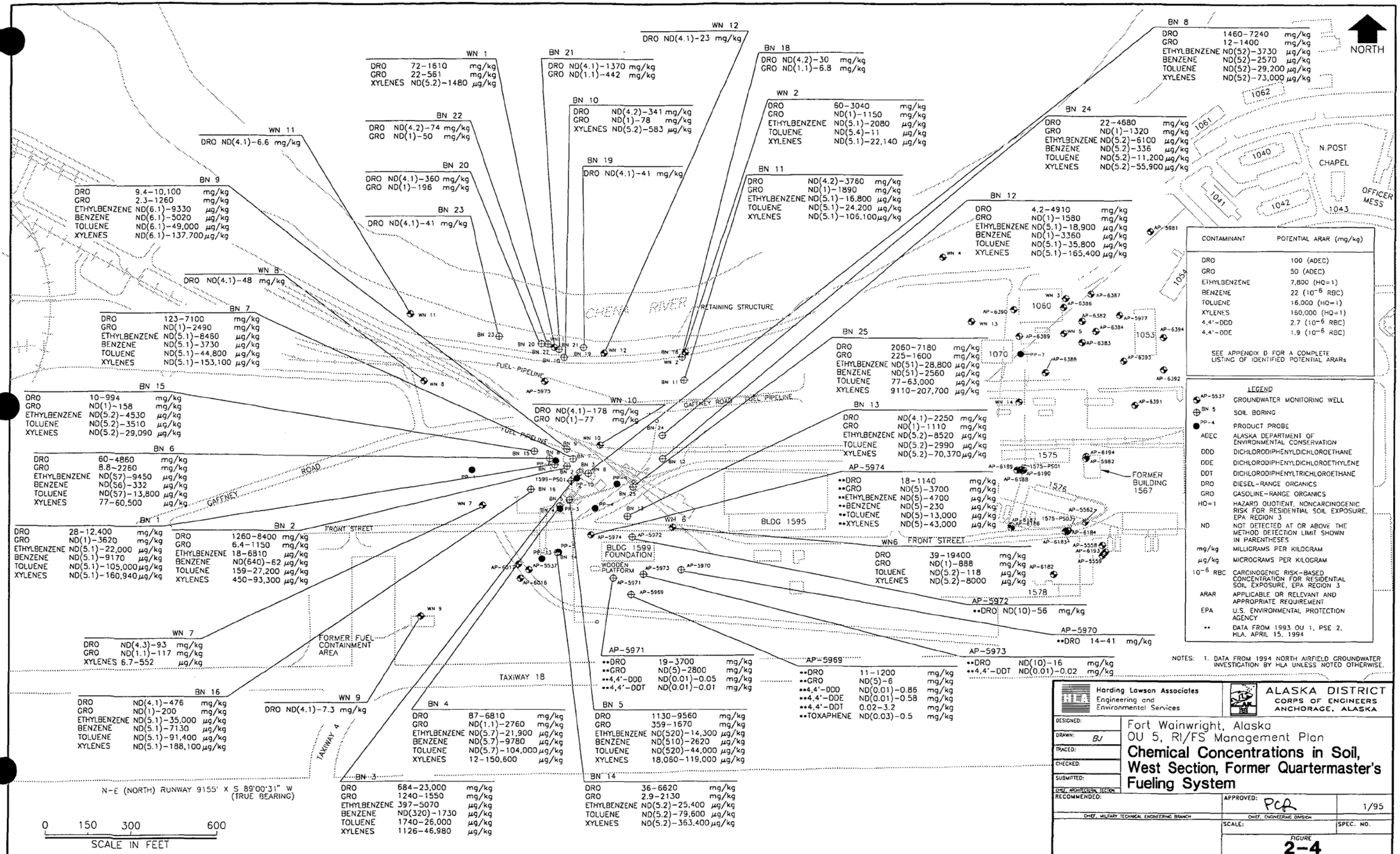
DATE: 1/95

SCALE:

SPEC. NO.

FIGURE
**2-3**

OU5_1




| CONTAMINANT | POTENTIAL ARAR (mg/kg) |
|---|---|
| DRO | 100 (ADEC) |
| GRO | 50 (ADEC) |
| ETHYLBENZENE | 7,800 (HQ=1) |
| BENZENE | 22 ($10^{-6}$ RBC) |
| TOLUENE | 16,000 (HQ=1) |
| XYLENES | 160,000 (HQ=1) |
| 4,4'-DDD | 2.7 ($10^{-6}$ RBC) |
| 4,4'-DDE | 1.9 ($10^{-6}$ RBC) |

SEE APPENDIX D FOR A COMPLETE LISTING OF IDENTIFIED POTENTIAL ARARs

LEGEND

| | |
|---|---|
| AP-5537 | GROUNDWATER MONITORING WELL |
| BN 5 | SOIL BORING |
| PP-4 | PRODUCT PROBE |
| ADEC | ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION |
| DDD | DICHLORODIPHENYLDICHLOROETHANE |
| DDE | DICHLORODIPHENYLDICHLOROETHYLENE |
| DDT | DICHLORODIPHENYLTRICHLOROETHANE |
| DRO | DIESEL-RANGE ORGANICS |
| GRO | GASOLINE-RANGE ORGANICS |
| HQ=1 | HAZARD QUOTIENT, NONCARCINOGENIC RISK FOR RESIDENTIAL SOIL EXPOSURE, EPA REGION 3 |
| ND | NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT SHOWN IN PARENTHESES |
| mg/kg | MILLIGRAMS PER KILOGRAM |
| µg/kg | MICROGRAMS PER KILOGRAM |
| $10^{-6}$ RBC | CARCINOGENIC RISK-BASED CONCENTRATION FOR RESIDENTIAL SOIL EXPOSURE, EPA REGION 3 |
| ARAR | APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENT |
| EPA | U.S. ENVIRONMENTAL PROTECTION AGENCY |
| ** | DATA FROM 1993 OU 1, PSE 2, HLA, APRIL 15, 1994 |

NOTES: 1. DATA FROM 1994 NORTH AIRFIELD GROUNDWATER INVESTIGATION BY HLA UNLESS NOTED OTHERWISE.

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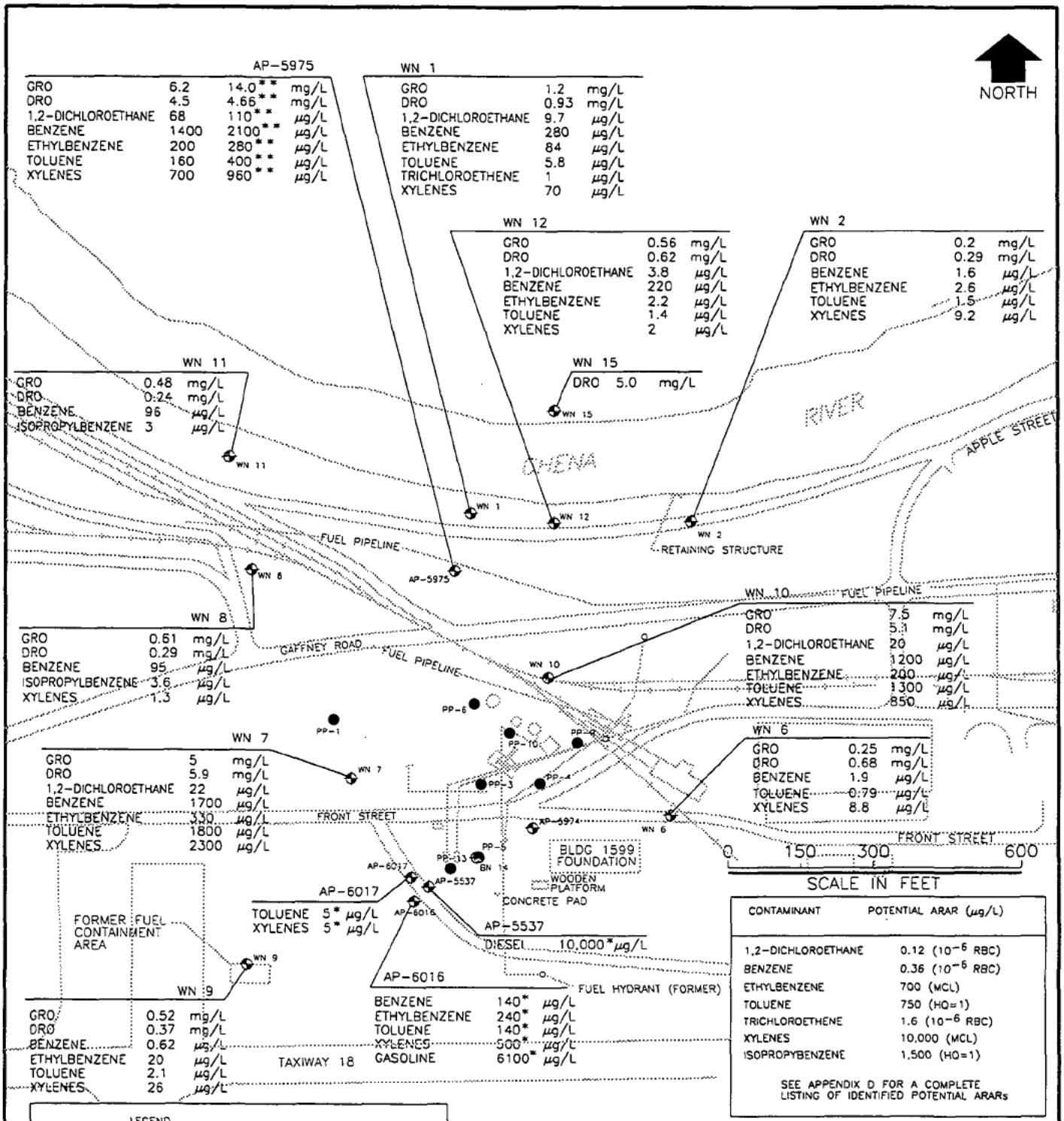
RECOMMENDED:
CHIEF, MILITARY TECHNICAL ENGINEERING BRANCH
APPROVED: PCR
CHIEF, ENGINEERING DIVISION
1/95
SCALE:
SPEC. NO.

Fort Wainwright, Alaska
OU 5, RI/FS Management Plan

**Chemical Concentrations in Soil, West Section, Former Quartermaster's Fueling System**

FIGURE **2-4**

OU5_6




| CONTAMINANT | POTENTIAL ARAR (µg/L) |
|---|---|
| 1,2-DICHLOROETHANE | 0.12 ($10^{-6}$ RBC) |
| BENZENE | 0.36 ($10^{-6}$ RBC) |
| ETHYLBENZENE | 700 (MCL) |
| TOLUENE | 750 (HQ=1) |
| TRICHLOROETHENE | 1.6 ($10^{-6}$ RBC) |
| XYLENES | 10,000 (MCL) |
| ISOPROPYBENZENE | 1,500 (HQ=1) |

SEE APPENDIX D FOR A COMPLETE LISTING OF IDENTIFIED POTENTIAL ARARs

LEGEND

| | |
|---|---|
| AP-5537 | GROUNDWATER MONITORING WELL |
| PP-4 | PRODUCT PROBE |
| DRO | DIESEL-RANGE ORGANICS |
| GRO | GASOLINE-RANGE ORGANICS |
| mg/L | MILLIGRAMS PER LITER |
| µg/L | MICROGRAMS PER LITER |
| ** | DATA FROM 1993 OU 1, PSE 2, HLA, APRIL 15, 1994 |
| * | DATA FROM 1993 FORT WAINWRIGHT GROUNDWATER SUMMARY REPORT, EMCON ALASKA, SEPT. 1994 |
| ARAR | APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENT |
| EPA | U.S. ENVIRONMENTAL PROTECTION AGENCY |
| HQ=1 | HAZARD QUOTIENT, NONCARCINOGENIC RISK FOR TAP WATER EXPOSURE, EPA REGION 3 |
| $10^{-6}$ RBC | CARCINOGENIC RISK-BASED CONCENTRATION FOR TAP WATER EXPOSURE, EPA REGION 3 |
| MCL | MAXIMUM CONTAMINANT LEVEL |

NOTE: DATA FROM 1994 NORTH AIRFIELD GROUNDWATER INVESTIGATION BY HLA UNLESS NOTED OTHERWISE.

Harding Lawson Associates
Engineering and Environmental Services

ALASKA DISTRICT
CORPS OF ENGINEERS
ANCHORAGE, ALASKA

DESIGNED:
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TRACED:
CHECKED:
SUBMITTED:
CHIEF, ARCHITECTURAL SECTION

Fort Wainwright, Alaska
OU 5, RI/FS Management Plan

**Chemical Concentrations in Groundwater, West Section, Former Quartermaster's Fueling System**

RECOMMENDED:
CHIEF, MILITARY TECHNICAL ENGINEERING BRANCH

APPROVED: PCR
CHIEF, ENGINEERING DIVISION

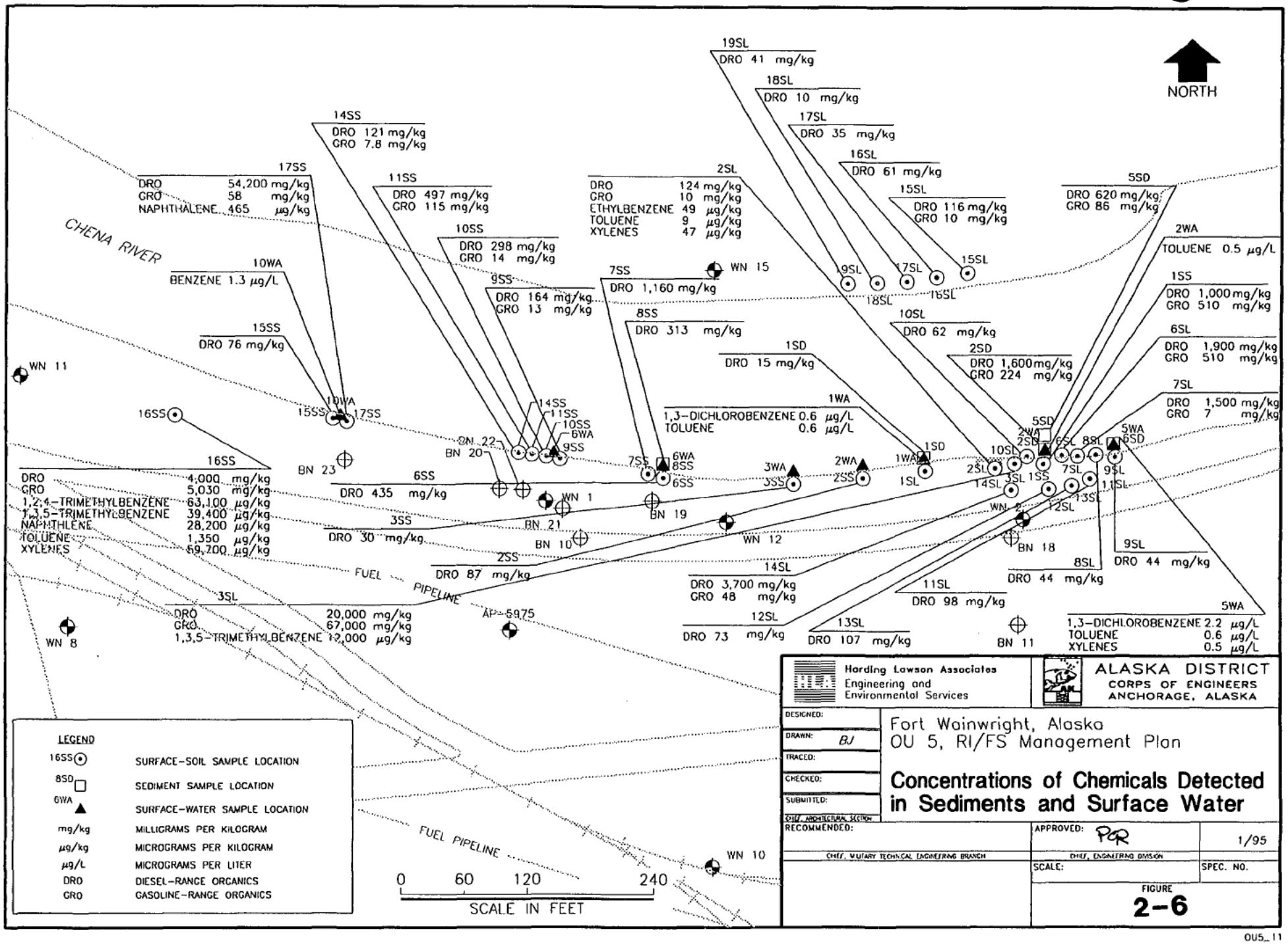
1/95

SCALE:

SPEC. NO.

FIGURE
**2-5**

OU5_7


NORTH
CHENA RIVER
FUEL PIPELINE
FUEL PIPELINE
19SL
DRO 41 mg/kg
18SL
DRO 10 mg/kg
17SL
DRO 35 mg/kg
16SL
DRO 61 mg/kg
15SL
DRO 116 mg/kg
GRO 10 mg/kg
14SS
DRO 121 mg/kg
GRO 7.8 mg/kg
17SS
DRO 54,200 mg/kg
GRO 58 mg/kg
NAPHTHALENE 465 µg/kg
11SS
DRO 497 mg/kg
GRO 115 mg/kg
10SS
DRO 298 mg/kg
GRO 14 mg/kg
9SS
DRO 164 mg/kg
GRO 13 mg/kg
2SL
DRO 124 mg/kg
GRO 10 mg/kg
ETHYLBENZENE 49 µg/kg
TOLUENE 9 µg/kg
XYLENES 47 µg/kg
7SS
DRO 1,160 mg/kg
8SS
DRO 313 mg/kg
10WA
BENZENE 1.3 µg/L
15SS
DRO 76 mg/kg
1SD
DRO 15 mg/kg
1WA
1,3-DICHLOROBENZENE 0.6 µg/L
TOLUENE 0.6 µg/L
5SD
DRO 620 mg/kg
GRO 86 mg/kg
2WA
TOLUENE 0.5 µg/L
1SS
DRO 1,000 mg/kg
GRO 510 mg/kg
10SL
DRO 62 mg/kg
2SD
DRO 1,600 mg/kg
GRO 224 mg/kg
6SL
DRO 1,900 mg/kg
GRO 510 mg/kg
7SL
DRO 1,500 mg/kg
GRO 7 mg/kg
16SS
DRO 4,000 mg/kg
GRO 5,030 mg/kg
1,2,4-TRIMETHYLBENZENE 63,100 µg/kg
1,3,5-TRIMETHYLBENZENE 39,400 µg/kg
NAPHTHLENE 28,200 µg/kg
TOLUENE 1,350 µg/kg
XYLENES 69,200 µg/kg
6SS
DRO 435 mg/kg
3SS
DRO 30 mg/kg
2SS
DRO 87 mg/kg
3SL
DRO 20,000 mg/kg
GRO 67,000 mg/kg
1,3,5-TRIMETHYLBENZENE 12,000 µg/kg
14SL
DRO 3,700 mg/kg
GRO 48 mg/kg
12SL
DRO 73 mg/kg
13SL
DRO 107 mg/kg
11SL
DRO 98 mg/kg
8SL
DRO 44 mg/kg
9SL
DRO 44 mg/kg
5WA
1,3-DICHLOROBENZENE 2.2 µg/L
TOLUENE 0.6 µg/L
XYLENES 0.5 µg/L
WN 11
WN 15
WN 1
WN 2
WN 8
WN 10
BN 23
BN 22
BN 20
BN 21
BN 10
BN 19
BN 18
BN 11
AP-5975
0 60 120 240
SCALE IN FEET
LEGEND
16SS SURFACE-SOIL SAMPLE LOCATION
8SD SEDIMENT SAMPLE LOCATION
6WA SURFACE-WATER SAMPLE LOCATION
mg/kg MILLIGRAMS PER KILOGRAM
µg/kg MICROGRAMS PER KILOGRAM
µg/L MICROGRAMS PER LITER
DRO DIESEL-RANGE ORGANICS
GRO GASOLINE-RANGE ORGANICS
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RECOMMENDED:
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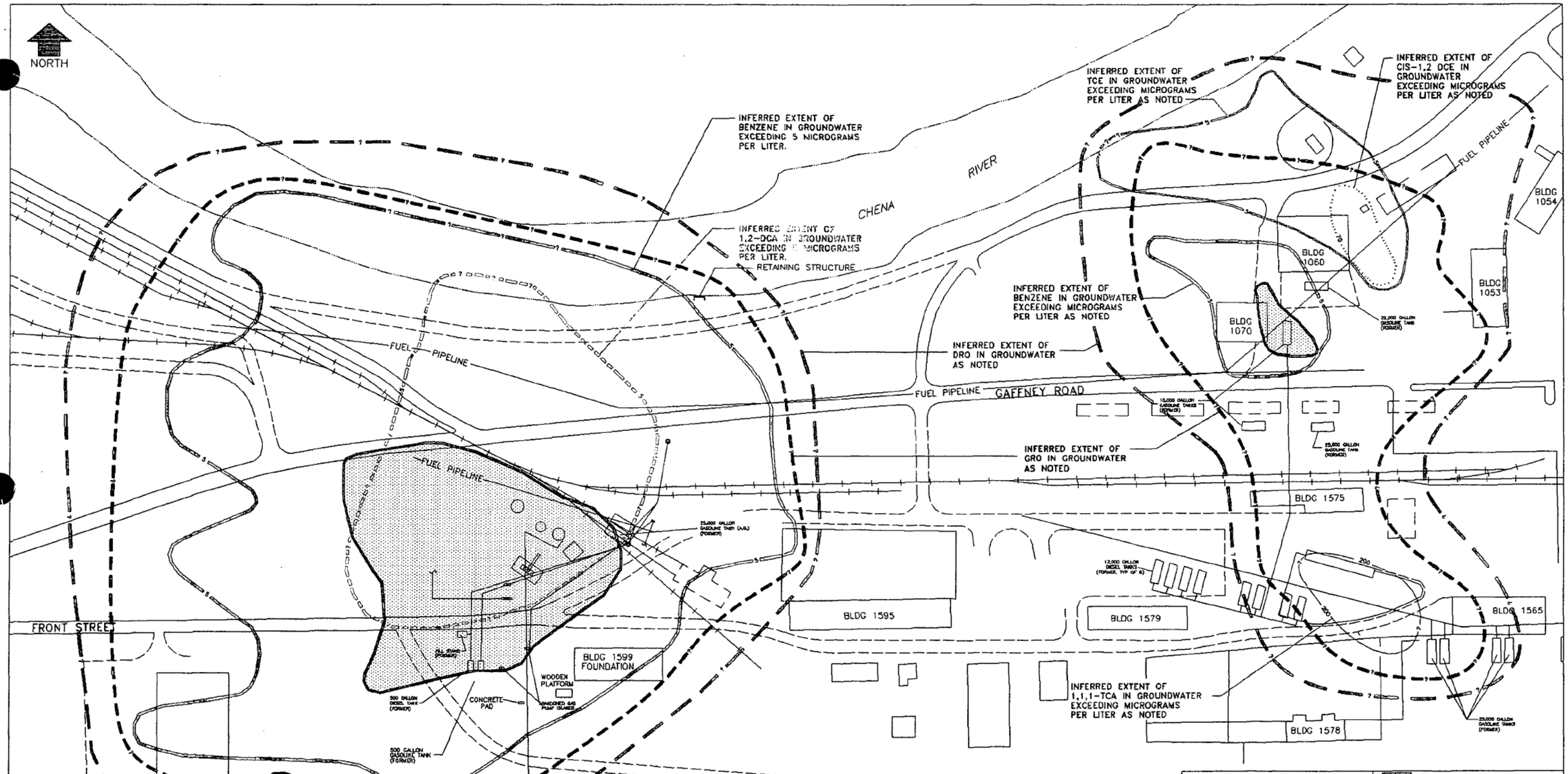
APPROVED: PCR
CHIEF, ENGINEERING DIVISION
1/95
SCALE:
SPEC. NO.
FIGURE
2-6
Fort Wainwright, Alaska
OU 5, RI/FS Management Plan
Concentrations of Chemicals Detected in Sediments and Surface Water

OU5_11




LEGEND

- INFERRED EXTENT OF FLOATING PRODUCT
- INFERRED EXTENT OF 1,2-DCA IN GROUNDWATER EXCEEDING MICROGRAMS PER LITER AS NOTED
- INFERRED EXTENT OF BENZENE IN GROUNDWATER EXCEEDING MICROGRAMS PER LITER AS NOTED
- INFERRED EXTENT OF 1,1,1-TCA IN GROUNDWATER AS NOTED
- INFERRED EXTENT OF CIS 1,2-DCE IN GROUNDWATER EXCEEDING MICROGRAMS PER LITER AS NOTED
- INFERRED EXTENT OF TCE IN GROUNDWATER EXCEEDING MICROGRAMS PER LITER AS NOTED
- INFERRED EXTENT OF DRO IN GROUNDWATER AS NOTED
- INFERRED EXTENT OF GRO IN GROUNDWATER AS NOTED

NOTES:

1. THE FEDERAL AND STATE DRINKING WATER MAXIMUM CONTAMINANT LEVEL (MCLS) IN MICROGRAMS PER LITER (µg/L):

| | |
|---|---|
| BENZENE | 5 µg/L |
| TRICHLOROETHYLENE (TCE) | 5 µg/L |
| CIS-1,2,-DICHLOROETHYLENE (CIS-1,2-DCE) | 70 µg/L |
| 1,1,1-TRICHLOROETHANE (1,1,1-TCA) | 200 µg/L |
| 1,2-DICHLOROETHANE (1,2-DCA) | 5 µg/L |

2. BENZENE DATA FROM ONSITE ANALYSIS OF GROUNDWATER FROM WELLS AND GROUNDWATER PROBES DURING JULY AND AUGUST 1994. BENZENE DATA ALSO BASED ON OFFSITE ANALYSIS OF GROUNDWATER FROM WELLS DURING SEPTEMBER 1994. BENZENE CONTOURS GENERATED FROM SPILLCAD VERSION 3.2.
3. DIESEL-RANGE ORGANICS (DRO) AND GASOLINE-RANGE ORGANICS (GRO) DATA FROM OFFSITE ANALYSIS OF GROUNDWATER FROM WELLS DURING SEPTEMBER 1994. THE EXTENT OF DRO AND GRO CONTAMINATION IS NOT KNOWN BECAUSE OF THE LIMITED NUMBER OF GROUNDWATER MONITORING WELLS IN THE AREA. IT HAS BEEN ASSUMED THAT THE AREA OF GROUNDWATER CONTAMINATED WITH DRO AND GRO EXTENDS BEYOND THE AREA INFERRED TO CONTAIN BENZENE IN GROUNDWATER IN EXCESS OF 5 PARTS PER BILLION. MCLS FOR DRO AND GRO IN GROUNDWATER DO NOT EXIST.
4. 1,1,1-TCA DATA FROM PHASE I SITE INVESTIGATION DRAFT REPORT, BUILDING 1565, FORT WAINWRIGHT, ALASKA, HLA, JAN. 18, 1994, AND TRIP REPORT LETTER, MARCH/APRIL SAMPLING EVENT PHASE II SITE INVESTIGATION, BUILDING 1565, HLA, MAY 5,1994.
5. THE DATA USED TO PREPARE THIS MAP WILL BE PRESENTED IN A REPORT TO THE UNITED STATES ARMY CORPS OF ENGINEERS.

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ANCHORAGE, ALASKA

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SUBMITTED:
CHIEF, ADMINISTRATIVE SERVICES

Fort Wainwright, Alaska
OU 5 RI/FS Management Plan

# 1994 North Airfield Groundwater Plumes

RECOMMENDED:
CHIEF, MILITARY TECHNICAL ENGINEERING BRANCH

APPROVED: PCR
CHIEF, ENGINEERING DIVISION

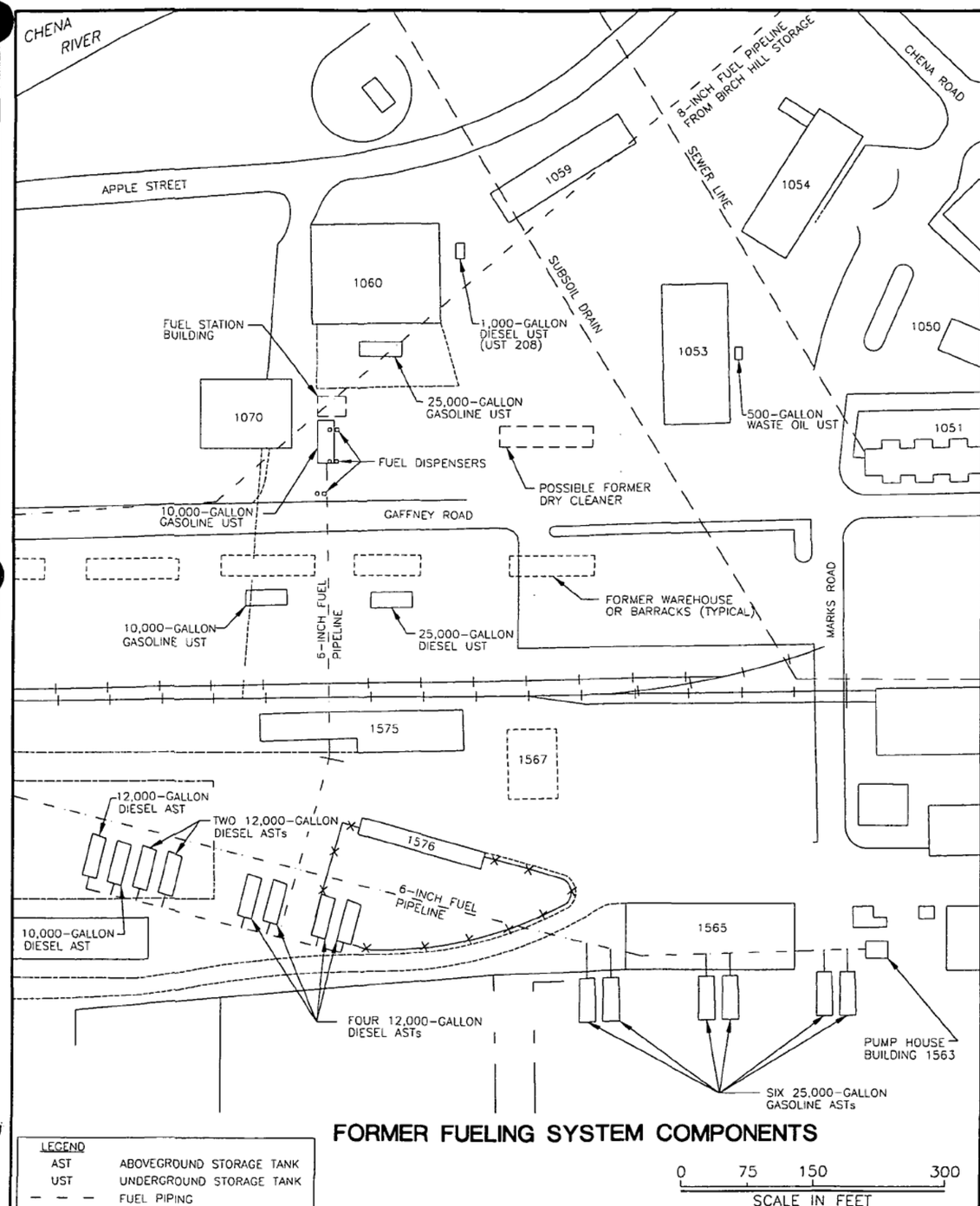
DATE: 1/95

SCALE:

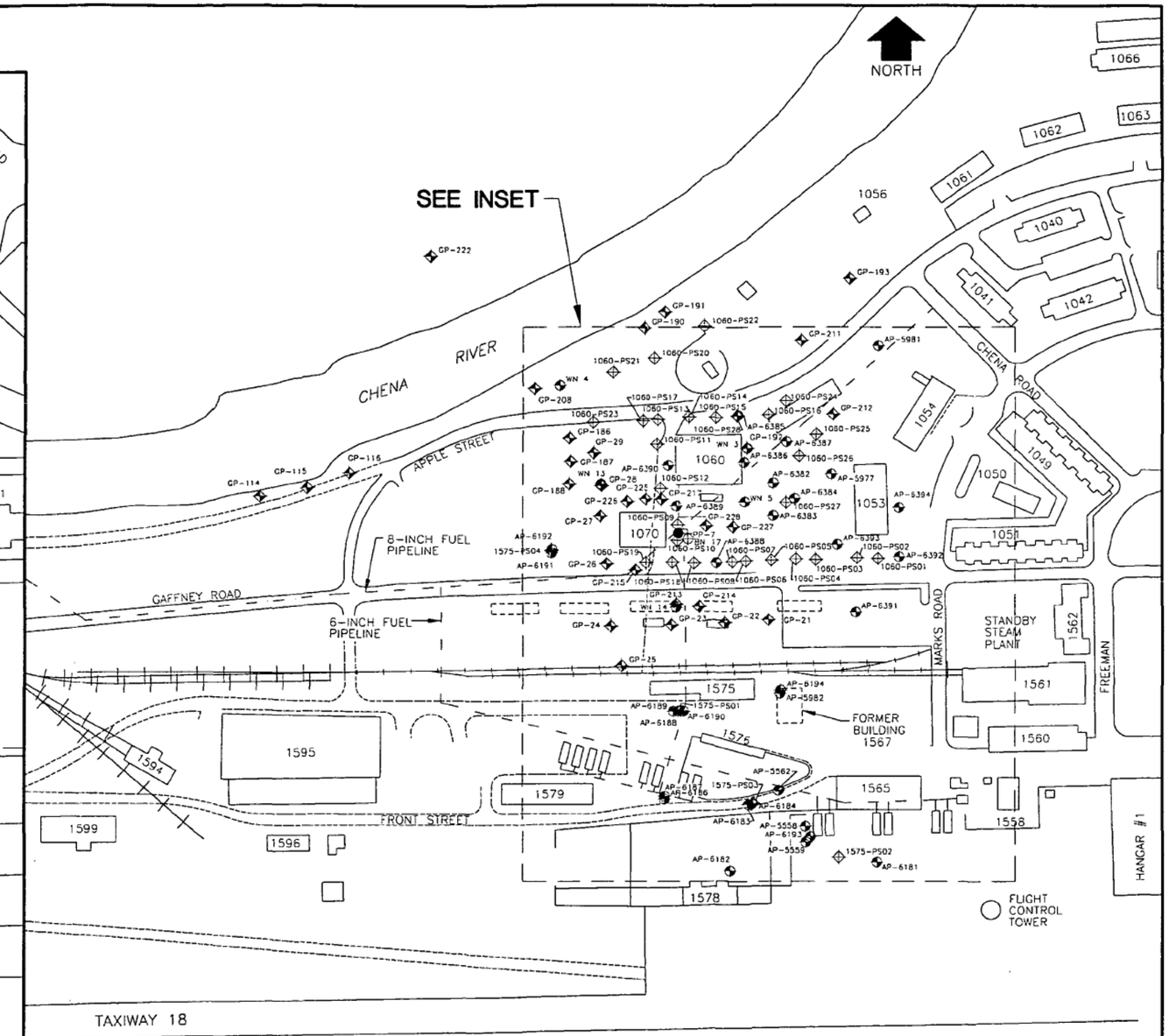
SPEC. NO.

DRAWING NUMBER
2-7

ou5_10




## FORMER FUELING SYSTEM COMPONENTS

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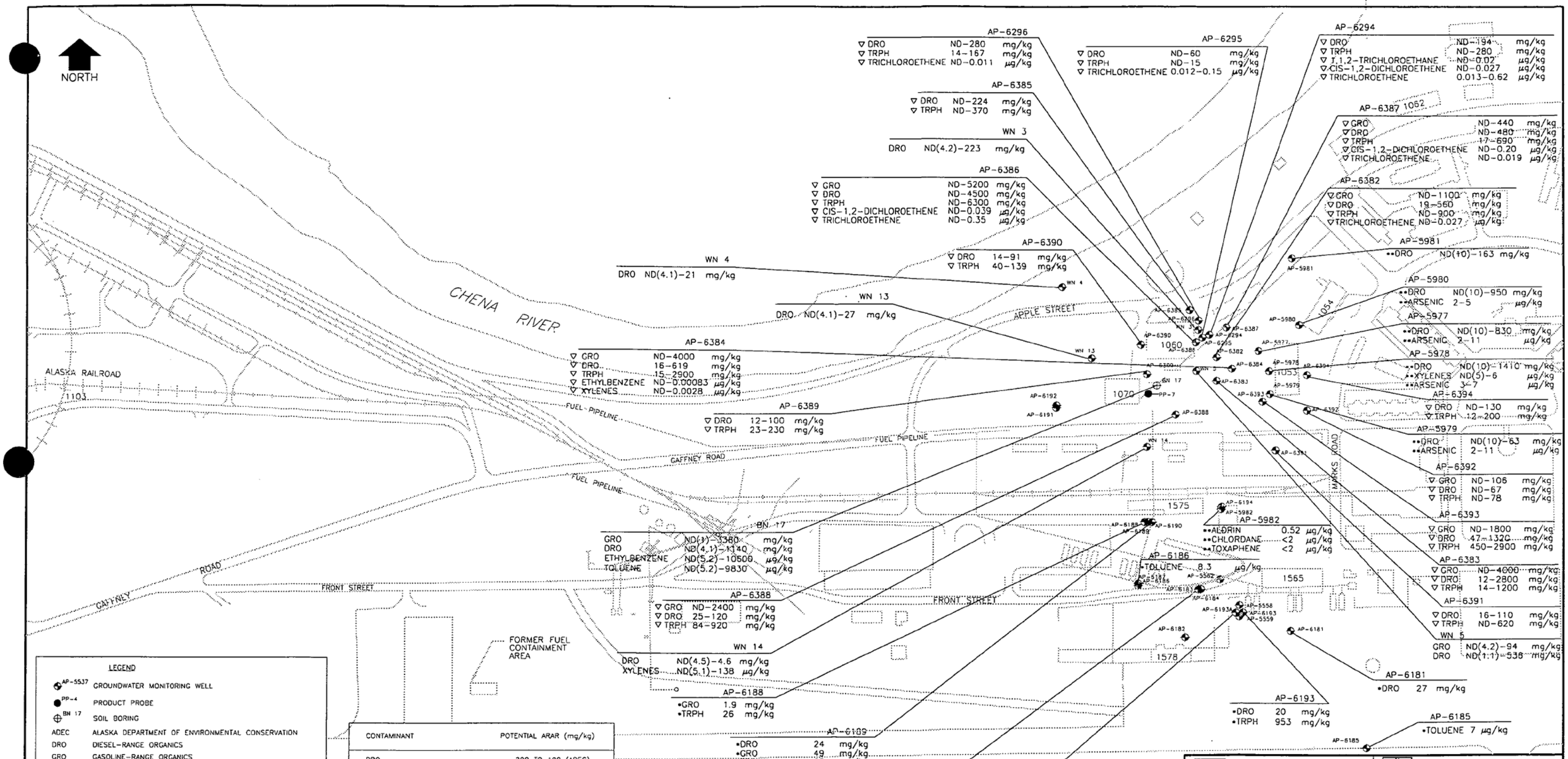
Fort Wainwright, Alaska
OU 5, RI/FS Management Plan

**Site Plan, East Section, Former Quartermaster's Fueling System**

APPROVED: PCR
CHIEF, ENGINEERING DIVISION
1/95
SCALE:
SPEC. NO.
FIGURE
**2-8**

OU5_2




LEGEND

| | |
|---|---|
| AP-5537 | GROUNDWATER MONITORING WELL |
| PP-4 | PRODUCT PROBE |
| BN 17 | SOIL BORING |
| ADEC | ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION |
| DRO | DIESEL-RANGE ORGANICS |
| GRO | GASOLINE-RANGE ORGANICS |
| HQ=1 | HAZARD QUOTIENT, NONCARCINOGENIC RISK FOR RESIDENTIAL SOIL EXPOSURE, EPA REGION 3 |
| mg/kg | MILLIGRAMS PER KILOGRAM |
| µg/kg | MICROGRAMS PER KILOGRAM |
| TRPH | TOTAL RECOVERABLE PETROLEUM HYDROCARBONS |
| $10^{-6}$ RBC | CARCINOGENIC RISK-BASED CONCENTRATION FOR RESIDENTIAL SOIL EXPOSURE, EPA REGION 3 |
| ARAR | APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENT |
| EPA | U.S. ENVIRONMENTAL PROTECTION AGENCY |
| ND | NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT IN PARENTHESES |
| ** | DATA FROM 1993 OU 1, PSE 2, HLA, APRIL 15, 1994 |
| * | DATA FROM 1993 PHASE II SITE INVESTIGATION REPORT, BUILDING 1565, HLA, JULY 14, 1994 |
| ▽ | DATA FROM RELEASE INVESTIGATION REPORT DELIVERY ORDER 3, FORT WAINWRIGHT, ALASKA, CH2M HILL, AUGUST, 1994 |

| CONTAMINANT | POTENTIAL ARAR (mg/kg) |
|---|---|
| DRO | 200 TO 100 (ADEC) |
| TRICHLOROETHENE | 2,000 (HQ=1) |
| 1,1,2-TRICHLOROETHANE | 11 ($10^{-6}$ RBC) |
| CIS-1,2-DICHLOROETHENE | 780 (HQ=1) |
| ARSENIC | 0.37 ($10^{-6}$ RBC) |
| ETHYLBENZENE | 7,800 (HQ=1) |
| XYLENES | 160,000 (HQ=1) |
| ALDRIN | 0.038 ($10^{-6}$ RBC) |
| CHLORDANE | 0.49($10^{-6}$ RBC) |
| TOXAPHENE | 0.58 ($10^{-6}$ RBC) |
| BENZENE | 22 ($10^{-6}$ RBC) |
| TOLUENE | 16,000 (HQ=1) |
| 1,1,1-TRICHLOROETHANE | 31 (HQ=1) |

SEE APPENDIX D FOR A COMPLETE LISTING OF IDENTIFIED POTENTIAL ARARs

NOTES: 1. DATA FROM 1994 NORTH AIRFIELD GROUNDWATER INVESTIGATION BY HLA UNLESS NOTED OTHERWISE.

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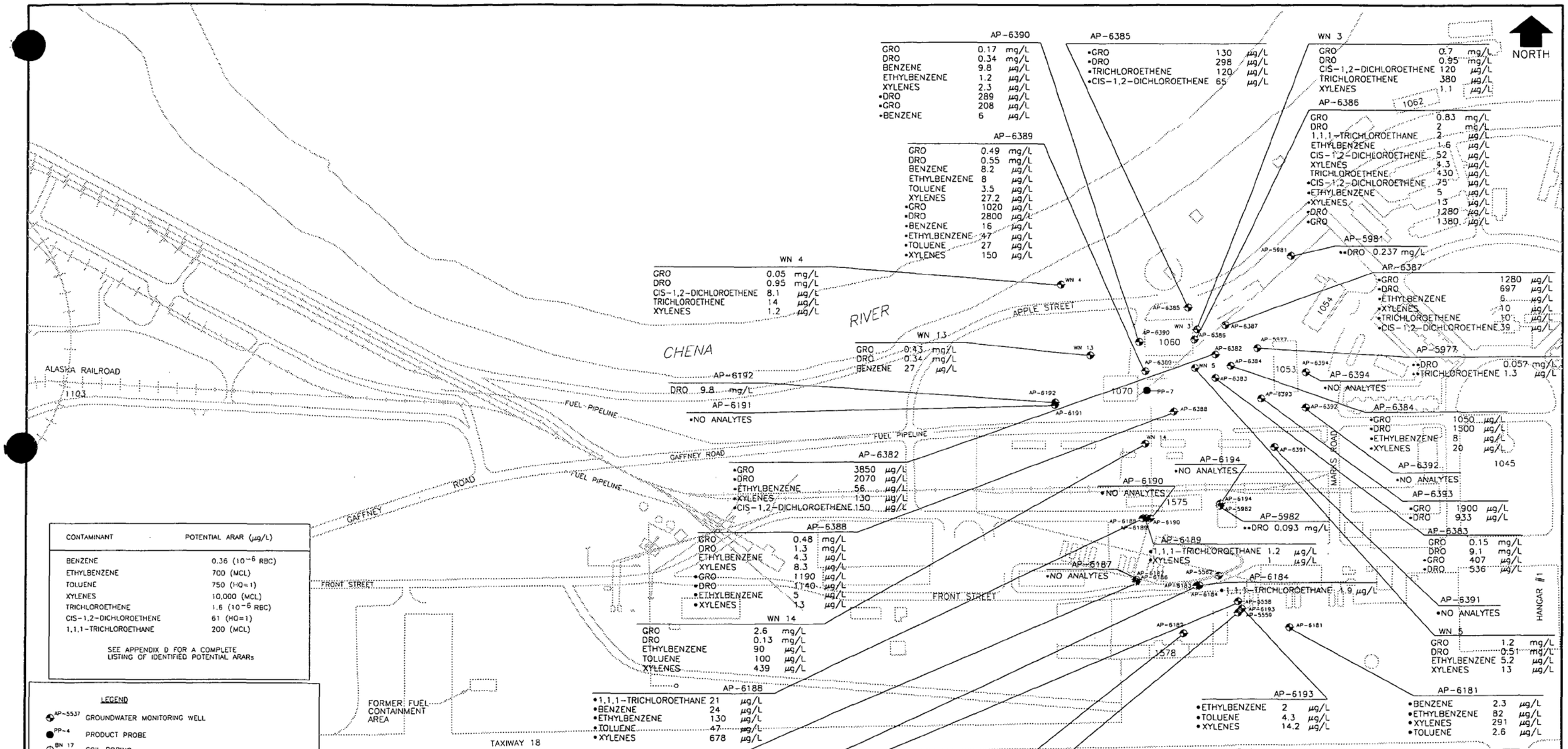
RECOMMENDED:
CHIEF, MILITARY TECHNICAL ENGINEERING BRANCH

Fort Wainwright, Alaska
OU 5, RI/FS Management Plan

**Chemical Concentrations in Soil, East Section, Former Quartermaster's Fueling System**

APPROVED: PCR
CHIEF, ENGINEERING DIVISION
1/95
SCALE:
SPEC. NO.
FIGURE
**2-9**

OU5_9




| CONTAMINANT | POTENTIAL ARAR (µg/L) |
|---|---|
| BENZENE | 0.36 ($10^{-6}$ RBC) |
| ETHYLBENZENE | 700 (MCL) |
| TOLUENE | 750 (HQ=1) |
| XYLENES | 10,000 (MCL) |
| TRICHLOROETHENE | 1.6 ($10^{-6}$ RBC) |
| CIS-1,2-DICHLOROETHENE | 61 (HQ=1) |
| 1,1,1-TRICHLOROETHANE | 200 (MCL) |

SEE APPENDIX D FOR A COMPLETE LISTING OF IDENTIFIED POTENTIAL ARARs

**LEGEND**

| | |
|---|---|
| AP-5537 | GROUNDWATER MONITORING WELL |
| PP-4 | PRODUCT PROBE |
| BN 17 | SOIL BORING |
| DRO | DIESEL-RANGE ORGANICS |
| GRO | GASOLINE-RANGE ORGANICS |
| HQ=1 | HAZARD QUOTIENT, NONCARCINOGENIC RISK FOR TAP WATER EXPOSURE, EPA REGION 3 |
| mg/L | MILLIGRAMS PER LITER |
| µg/L | MICROGRAMS PER LITER |
| MCL | MAXIMUM CONTAMINANT LEVEL |
| $10^{-6}$ RBC | CARCINOGENIC RISK-BASED CONCENTRATION FOR TAP WATER EXPOSURE, EPA REGION 3 |
| ARAR | APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENT |
| EPA | U.S. ENVIRONMENTAL PROTECTION AGENCY |
| ** | DATA FROM 1993 OU 1, PSE 2, HLA, APRIL 15, 1994 |
| * | DATA FROM 1993 FORT WAINWRIGHT GROUNDWATER SUMMARY REPORT, EMCON ALASKA, SEPTEMBER 1994 |
| • | DATA FROM 1993 PHASE II SITE INVESTIGATION, BUILDING 1565, FORT WAINWRIGHT, ALASKA, HLA, JULY 14, 1994 |

NOTES:
1. DATA FROM 1994 NORTH AIRFIELD GROUNDWATER INVESTIGATION BY HLA UNLESS NOTED OTHERWISE.
2. NO ANALYTES MEAN THAT ANALYTES WERE NOT DETECTED ABOVE METHOD REPORTING LIMITS.

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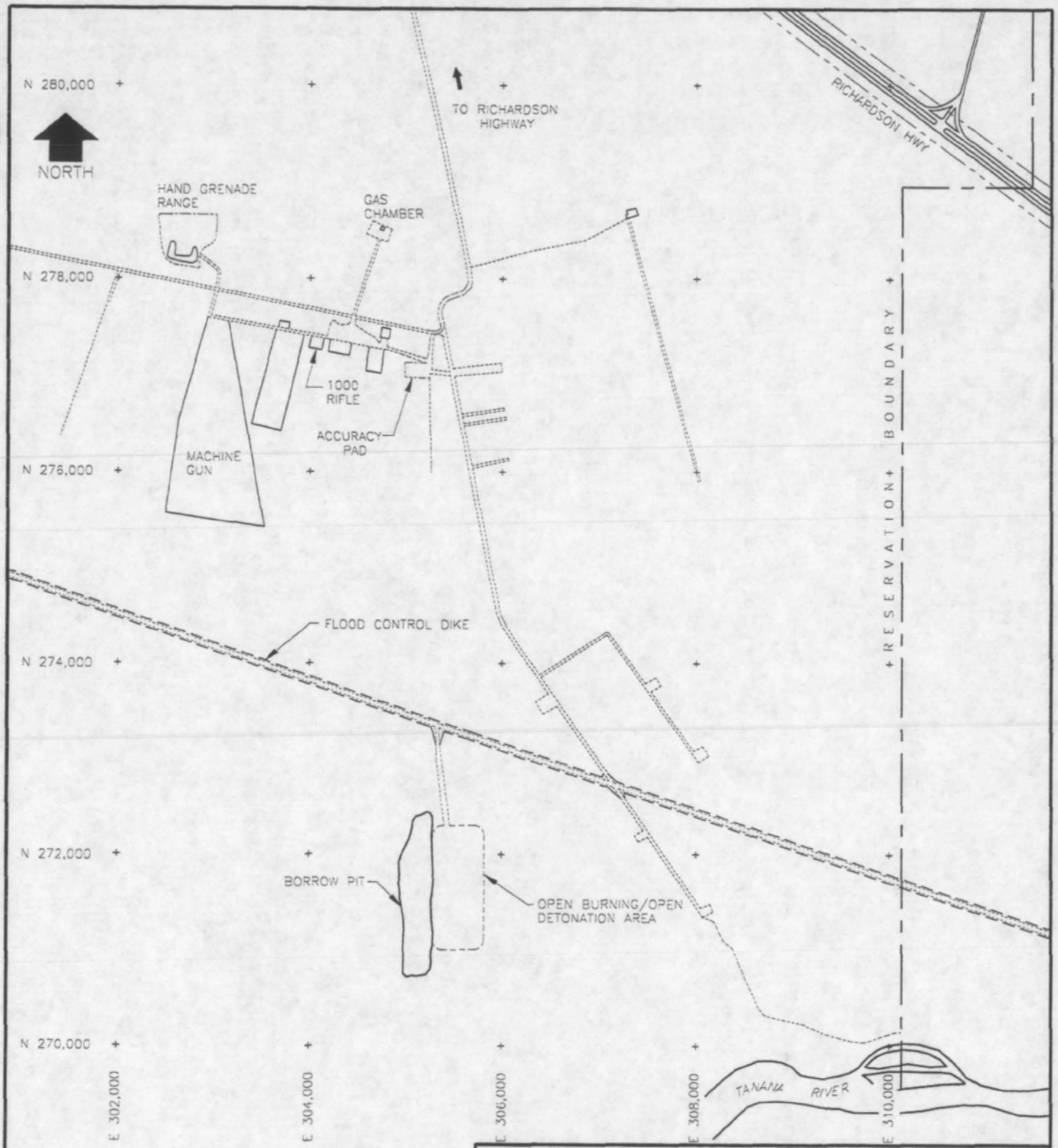
CHECKED:
SUBMITTED:
CHIEF, ARCHITECTURAL SECTION
RECOMMENDED:
CHIEF, MILITARY TECHNICAL ENGINEERING BRANCH

Fort Wainwright, Alaska
OU 5, RI/FS Management Plan
**Chemical Concentrations in Groundwater, East Section, Former Quartermaster's Fueling System**

APPROVED: PCR
CHIEF, ENGINEERING DIVISION
1/95
SCALE:
SPEC. NO.
FIGURE
**2-10**

OU5_8




REFERENCE: DIRECTOR OF FACILITIES ENGINEERING, AS-BUILT, SQUAD LIVE FIRE ASSAULT RANGE, LOCATION AND VICINITY MAP, DATED 5/81.

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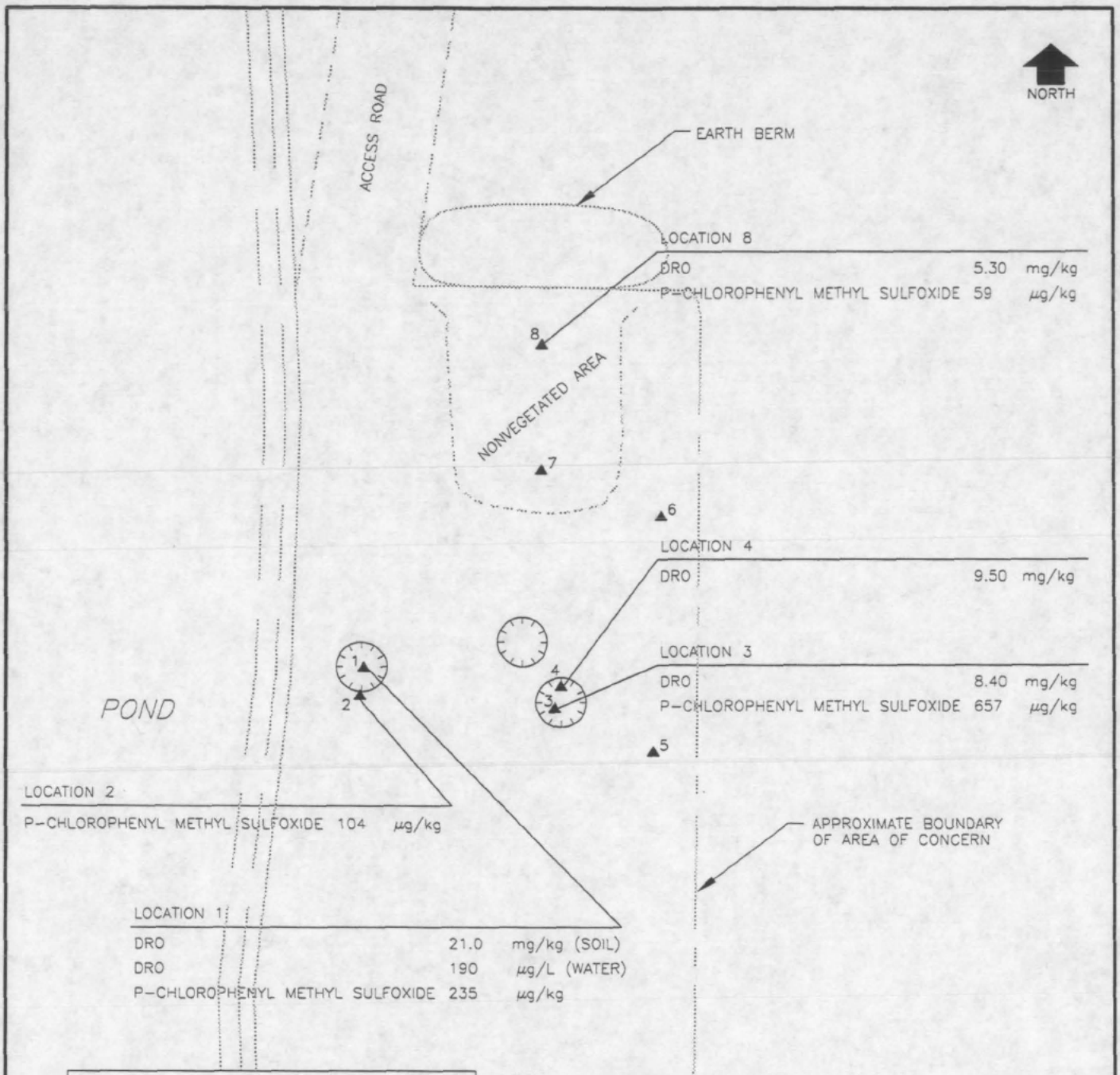
| | |
|---|---|
| DESIGNED: | Fort Wainwright, Alaska |
| DRAWN: JP | OU 5, RI/FS Management Plan |
| TRACED: | **Open Burning/Open Detonation Area Site Plan** |
| CHECKED: | |
| SUBMITTED: | |
| CHIEF, ARCHITECTURAL SECTION | |

| | | |
|---|---|---|
| RECOMMENDED: | APPROVED: | DATE: 1/95 |
| CHIEF, MILITARY TECHNICAL ENGINEERING BRANCH | CHIEF, ENGINEERING DIVISION | |
| | SCALE: NOTED | SPEC. NO. |
| | FIGURE **2-11** | |

199b




| CONTAMINANT | POTENTIAL ARAR (mg/kg) |
|---|---|
| DRO | 100 TO 2,000 (ADEC, SOIL) |

SEE APPENDIX D FOR A COMPLETE LISTING OF IDENTIFIED POTENTIAL ARARs

NOT TO SCALE

REFERENCE: USACE, 1994. CHEMICAL DATA REPORT, SMALL ARMS RANGE, FORT WAINWRIGHT, ALASKA, FIGURE 3, SAMPLING LOCATIONS, OCTOBER 24.

LEGEND

| | |
|---|---|
| ▲1 | 1994 USACE SAMPLING LOCATIONS AND NUMBERS |
| | DETONATION CRATER |
| USACE | U.S. ARMY CORPS OF ENGINEERS |
| DRO | DIESEL-RANGE ORGANICS |
| ADEC | ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION |
| ARAR | APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENT |
| µg/kg | MICROGRAMS PER KILOGRAM |

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ALASKA DISTRICT
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ANCHORAGE, ALASKA

DESIGNED:
DRAWN: JP
TRACED:
CHECKED:
SUBMITTED:
CHIEF, ARCHITECTURAL SECTION

Fort Wainwright, Alaska
OU 5, RI/FS Management Plan

**Chemical Concentrations in Soil and Water, Open Burning/Open Detonation Area**

RECOMMENDED: CHIEF, MILITARY TECHNICAL ENGINEERING BRANCH
APPROVED: PCR CHIEF, ENGINEERING DIVISION
DATE: 1/95
SCALE: NOTED
SPEC. NO.
FIGURE **2-12**

# 3.0 CONCEPTUAL SITE MODELS

The preliminary conceptual site models (CSMs) presented in this section are a basis for organizing and understanding available data pertaining to known or suspected contaminant sources, release and migration pathways, and human and environmental receptors. The CSMs were developed to be as comprehensive as available data allow. Critical data gaps in the understanding of the site conditions will be defined for each CSM and used to direct future RI/FS tasks. As more data are collected in the RI/FS process, each CSM will be refined to focus data collection efforts in the areas of greatest concern. The following terms apply to the CSMs:

- Source: The origin of a contaminated media. Usually a spill, leak, or application of a CERCLA hazardous material.
- Primary release mechanism: The method by which contaminants from a source area enter the environment.
- Secondary source: Contaminated environmental media from which additional releases may occur.
- Secondary release mechanism: The method by which contaminants from a secondary source migrate.
- Pathway: The medium by which contamination migrates to receptors.
- Exposure route: The means by which a receptor could be affected by contaminants from a source.
- Area residents: All people who live or work within a 4-mile radius of a source area, as well as recreational or other users of the area surrounding the source area.
- Site visitors: All people who visit the exact location of the source area for a limited time.
- Aquatic biota: All flora and fauna that live for the majority of their life cycles in rivers, streams, ponds, or wetlands.
- Terrestrial biota: All flora and fauna that live for the majority of their life cycles on land.

## 3.1 West QFS Area

### 3.1.1 Potential Contaminant Sources

The primary sources of contamination at the West QFS area include 1) vehicle maintenance activities; 2) aboveground storage tanks and associated dispensers and piping; 3) grease pits, floor drains, and associated sewer and septic tank; and 4) USTs and associated piping. Soil and groundwater are secondary sources. Based on the results of previous investigations at the West QFS area, the contaminants of concern are fuels and chlorinated solvents.

### 3.1.2 Contaminant Migration Pathways

**Air:** The air pathway is a concern because of airborne particulate dispersion of contaminants and volatilization. With an overall mean annual precipitation of 11.15 inches, Fort Wainwright is characterized as semiarid (NOAA, 1991). The strongest winds occur in May and June, with mean speeds of 7.7 and 7.2 miles per hour, respectively. Daily normal maximum temperatures of over 70°F in June and July, combined with dry soil conditions and moderate wind speeds, may promote airborne particulate dispersion of contaminants. However, Fort Wainwright is covered with snow approximately 7 months of the year, limiting the airborne migration pathway.

**Surface Water:** Surface water is a primary mechanism for transporting surface-soil contamination offsite. The present topography of the West QFS area grades to the north toward the Chena River. Surface-water runoff from this source area will drain to the Chena River.

**Groundwater:** Groundwater contamination at the West QFS area has been confirmed; therefore, groundwater is a secondary contaminant source and migration pathway. Contaminant migration via groundwater depends on several factors, including physical and chemical characteristics of the contaminants and site lithology and hydrogeology. Data indicate that, regionally, groundwater flows to the northwest. Groundwater contaminants may migrate offsite and impact Chena River surface water and sediments. Throughout most of the year, groundwater recharges the Chena River. However, during spring runoff and heavy precipitation events (typically in the fall), the river level rises, producing a local reversal of groundwater away from the Chena River. Fluctuations in the groundwater level produce a smear zone of contamination through the soil above the groundwater.

**Soil:** Soil contamination at the West QFS area has been confirmed; therefore, soil is a contaminant source and migration pathway. Contaminant migration via soil will depend on several factors, including physical and chemical characteristics of the contaminants, soil particle size, porosity and permeability characteristics, and site lithology and geology. Contamination may leach through surface and subsurface soil into groundwater via infiltration of precipitation. Contamination may also be taken up by surface vegetation, birds, and animals via ingestion and physical contact. Contamination may volatilize and adhere to dust particles, or migrate offsite through these mechanisms and the wind.

**Sediment:** Sediment contamination along the Chena River at the West QFS site has been confirmed; therefore, sediment is a contaminant source and migration pathway. Contamination migration via sediment will depend on several factors, including physical and chemical characteristics of the contaminants, sediment particle size, permeability and porosity characteristics, site lithology, and geology and hydrogeology. Contamination may continue to infiltrate Chena River sediments through groundwater sources. Sediment contamination may also dissolve in the river water and migrate downriver.

### 3.1.3 Receptors

Potential receptor populations of air, surface-water, sediment, soil, and groundwater contamination include residents, workers, visitors, recreational river users (including those consuming fish), and local fish and wildlife. A CSM for the West QFS area is shown on Figures 3-1 and 3-2. A more comprehensive analysis of exposure pathways for current and future receptors is presented in Appendix F, Table F-5. Current soil exposure is limited to the surface soil.

## 3.2 East QFS Area

### 3.2.1 Potential Contaminant Sources

The following are primary sources of contamination at the East QFS area:

- Vehicle maintenance activities;
- Drum storage;
- Grease pits, floor drains, and associated sewer;
- USTs, ASTs, fuel bladders, dispensers, and piping;
- Refueling equipment storage;
- Dry cleaning facility operations;
- Fuel station operations;
- Undocumented leaks and spills.

Based on the results of previous investigations at the East QFS area, the contaminants of concern are fuels and chlorinated solvents.

### 3.2.2 Contaminant Migration Pathways

**Air:** The air pathway is a concern because of airborne particulate dispersion of contaminants. With an overall mean annual precipitation of 11.15 inches, Fort Wainwright is characterized as semiarid (NOAA, 1991). The strongest winds

occur in May and June, with mean speeds of 7.7 and 7.2 miles per hour, respectively. Daily normal maximum temperatures of over 70°F in June and July, combined with dry soil conditions and moderate wind speeds, may promote airborne particulate dispersion of contaminants. However, Fort Wainwright is covered with snow approximately 7 months of the year, limiting the airborne migration pathway.

**Surface Water:** Surface water is a primary mechanism for transporting surface-soil contamination offsite. The present topography of the East QFS area grades to the northwest. Surface-water runoff from this source area will drain to the Chena River.

**Groundwater:** Groundwater contamination at the East QFS area has been confirmed; therefore, groundwater is a secondary contaminant source and migration pathway. Contaminant migration via groundwater depends on several factors, including physical and chemical characteristics of the contaminants and site lithology and hydrogeology. Data indicate that, regionally, groundwater flows to the northwest. Groundwater contaminants may migrate offsite and impact Chena River surface water and sediments. Throughout most of the year, groundwater recharges the Chena River. However, during spring runoff and heavy precipitation events (typically in the fall) the river level rises, producing a local reversal of groundwater away from the Chena River. Soil contamination generally appears in a smear zone above the groundwater table, indicating that, as the groundwater elevation fluctuates, contamination is spread vertically through the soil.

**Soil:** Soil contamination at the East QFS area has been confirmed; therefore, soil is a contaminant source and migration pathway. Contaminant migration via soil will depend on several factors, including physical and chemical characteristics of the contaminants, soil particle size, porosity and permeability characteristics, and site lithology and geology. Contamination may continue to leach through surface and subsurface soil into groundwater via infiltration of precipitation. Contamination may also be taken up by surface vegetation, birds, and animals via ingestion and physical contact. Contamination may volatilize and adhere to dust particles, or migrate offsite through these mechanisms and the wind.

**Sediment:** Contamination migration via sediment will depend on several factors, including physical and chemical characteristics of the contaminants, sediment particle size, permeability and porosity characteristics, site lithology, and geology and hydrogeology. Contamination may continue to infiltrate Chena River sediments through groundwater sources. Sediment contamination may also dissolve in the river water and migrate downriver.

### 3.2.3 Receptors

Potential receptor populations of soil, surface-water, and groundwater contaminants include residents, workers, recreational river users (including those consuming fish), and local fish and wildlife. A CSM for the East QFS area is shown on Figures 3-3 and 3-4. A more comprehensive analysis of exposure pathways for current and future receptors is presented in Appendix F, Table F-5. Current soil exposure is limited to surface soil.

## 3.3 OB/OD Area

### 3.3.1 Potential Contaminant Sources

The primary sources of contamination at the OB/OD area include propellant burning, ordnance detonation, and petroleum used to ignite munitions. Soil is a secondary source of concern.

Potential contaminants of concern at the OB/OD area are metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, and vanadium).

### 3.3.2 Contaminant Migration Pathways

**Air:** The air pathway is a potential concern because of airborne particulate dispersion of contaminants. With an overall mean annual precipitation of 11.15 inches, Fort Wainwright is characterized as semiarid (NOAA, 1991). The strongest

winds occur in May and June, with mean speeds of 7.7 and 7.2 miles per hour, respectively. Daily normal maximum temperatures of over 70°F in June and July, combined with dry soil conditions and moderate wind speeds, may promote airborne particulate dispersion of contaminants. However, Fort Wainwright is covered with snow approximately 7 months of the year, limiting the airborne migration pathway.

**Surface Water:** Surface water is the primary mechanism for transporting surface-soil contamination offsite. Surface-water runoff from the OB/OD area may drain to an adjacent pond to the west and to the Tanana River to the south. The OB/OD area is within the Tanana River floodplain between the river and the flood dike; therefore, inundation of the site is possible.

**Groundwater:** Groundwater contamination at the OB/OD area has not been confirmed; however, groundwater may be a migration pathway. Contaminant migration via groundwater depends on several factors, including physical and chemical characteristics of the contaminants and site lithology and hydrogeology. Contamination may leach through subsurface soil into groundwater via infiltration of precipitation. Groundwater contaminants may migrate offsite and impact Tanana River surface water and sediments.

**Soil:** Soil contamination by metals at the OB/OD area has not been confirmed; however, soil may be a contaminant source and migration pathway. Contaminant migration via soil will depend on several factors, including physical and chemical characteristics of the contaminants, soil particle size, porosity and permeability characteristics, and site lithology and geology. Contamination may leach through surface and subsurface soil into groundwater via infiltration of precipitation. Contamination may also be taken up by surface vegetation, birds, and animals via ingestion and physical contact. Contamination may also adhere to dust particles and migrate offsite via wind.

Flooding and erosion is a migration pathway at the OB/OD area because the site lies within the Tanana River floodplain. Erosion may scour contaminated surface soil and transport it downstream.

### 3.3.3 Receptors

Potential receptor populations of soil and groundwater contaminants at the OB/OD area include area residents, workers, visitors, and local fish and wildlife. A flow chart illustrating the conceptual site model sources, potential pathways, and potential receptors for the OB/OD area is shown on Figure 3-5. A more comprehensive analysis of exposure pathways for current and future receptors is presented in Appendix F, Table F-5. Current soil exposure is limited to the surface soil.

## 3.4 Summary of Data Gaps and Proposed Actions

Tables 3-1 through 3-3 present the identified data gaps based on analyses of the CSMs. The data gaps were used to formulate the DQOs for the OU 5 RI/FS and to develop the rationale for additional work to be conducted at the three source area (West QFS, East QFS, and OB/OD). This additional work is described in the FSP (Appendix A).

**Air:** No data are available on the nature and extent of air contamination. Particulate dispersion modeling based on analytical results and the physical properties of surface soil is proposed to estimate the extent of contamination and define the risks to receptor organisms.

**Surface Soil:** Limited data are available on the nature and extent of surface-soil contamination. Surface-soil samples will be analyzed for physical and chemical properties, and for contaminant quantitation to approximate the extent of contamination, identify remedial alternatives, and define risks to receptor populations.

## Table 3-1. Data Gaps, West QFS Area

| Area of Concern | Available Data | Data Gaps | Proposed Action | Data to be Gathered | Data Use |
|---|---|---|---|---|---|
| Air | | | | | |
| Air contamination | None available. | Nature and extent of contaminated-soil particulate dispersion via air pathway | Model particulate dispersion based on the laboratory analytical results and physical properties of surface soil. | Contaminated-soil particulate dispersion based on surface-soil analytical results | 1. Establish air pathway<br>2. Estimate extent of contaminant migration via air pathway<br>3. Remedial alternatives<br>4. Human health risk assessment<br>5. Interim remedial actions or removals |
| Surface Soil | | | | | |
| Surface-soil contamination | Limited surface-soil analytical data have been collected during previous investigations. | Extent of surface-soil contamination | Collect and analyze surface-soil samples from 0.0 to 2.0 feet deep. | DRO, GRO, VOCs, and SVOCs | 1. Establish contamination areas<br>2. Air modeling<br>3. Remedial alternatives<br>4. Human health and ecological risk assessments<br>5. Interim remedial actions or removals |
| Physical, chemical, and biological properties | Limited physical, chemical, and biological data have been collected. | Physical, chemical, and biological properties of surface soil | Collect and analyze surface-soil samples from 0.0 to 2.0 feet deep. | Particle-size analyses, moisture content, specific gravity, total organic carbon, soil nutrients, hydrocarbon-utilizing microbes | 1. Engineering studies*<br>2. Remedial alternatives<br>3. Feasibility studies<br>4. Human health and ecological risk assessments |
| Subsurface Soil | | | | | |
| Subsurface-soil contamination | Limited subsurface-soil analytical data have been collected during previous investigations. | Nature and extent of subsurface-soil contamination | Collect and analyze soil samples at 5-foot intervals to a depth of 20 feet in borings.** | DRO, GRO, VOCs, and SVOCs | 1. Establish contamination areas<br>2. Remedial alternatives<br>3. Human health risk assessment<br>4. Ecological risk assessment (to a maximum depth of 5 feet)<br>5. Interim remedial actions or removals |

## Table 3-1. Data Gaps, West QFS Area (continued)

| Area of Concern | Available Data | Data Gaps | Proposed Action | Data to be Gathered | Data Use |
|---|---|---|---|---|---|
| Physical, chemical, and biological properties | Limited physical, chemical, and biological data have been collected. | Physical, chemical, and biological properties of subsurface soil | Collect and analyze subsurface-soil samples from borings. Conduct treatability studies. | Particle-size analyses, moisture content, specific gravity, total organic carbon, soil nutrients, hydrocarbon-utilizing microbes, soil-air permeability | 1. Engineering studies*<br>2. Remedial alternatives<br>3. Feasibility studies |
| Groundwater | | | | | |
| Groundwater contamination | Groundwater samples have been collected from existing monitoring wells and probe. | Horizontal and vertical extents of fuel and chlorinated solvent plumes | Install additional groundwater probes and monitoring wells. Collect and analyze samples from new and existing probes/wells. Conduct treatability studies. | DRO, GRO, SVOCs, VOCs, lead | 1. Evaluate extent of contamination<br>2. Evaluate remedial alternatives<br>3. Human health risk assessment<br>4. Ecological risk assessment (as potential recharge to Chena River)<br>5. Interim remedial actions or removals |
| Aquifer characteristics | Limited groundwater depth and flow direction data have been collected. | Aquifer characteristics, seasonal level fluctuations | Measure groundwater levels, velocities, and flow directions; perform aquifer testing. | Hydraulic conductivity, storativity, gradient, velocity, and flow direction, and seasonal fluctuations in groundwater depth and flow direction | 1. Evaluate sources and extent of contamination<br>2. Site characterization<br>3. Engineering studies<br>4. Feasibility studies<br>5. Interim remedial actions or removals |
| Groundwater to surface water (Chena River) interaction | Limited groundwater/river interaction data are available. | Nature of transient groundwater conditions in areas influenced by Chena River hydrology | Measure groundwater fluctuations, changing gradients, and changing flow directions (triangulation studies). Install flow probes in groundwater monitoring wells. | Groundwater levels, gradients, flow velocity, flow direction, Chena River stage | 1. Establish migration pathway<br>2. Site characterization<br>3. Engineering studies<br>4. Feasibility studies<br>5. Interim remedial actions or removals |

## Table 3-1. Data Gaps, West QFS Area (continued)

| Area of Concern | Available Data | Data Gaps | Proposed Action | Data to be Gathered | Data Use |
|---|---|---|---|---|---|
| Surface Water and Sediment | | | | | |
| Surface-water and sediment contamination | Limited data are available from sampling along the banks of the Chena River. | Extent of contamination along the banks and bed of the Chena River | Collect sediment and water samples to characterize the extent of contamination. | DRO, GRO, VOCs, SVOCs, PCBs/Pesticides, OPPs, dioxins/furans, metals | 1. Establish migration pathway<br>2. Establish contamination areas<br>3. Remedial alternatives<br>4. Human health and ecological risk assessments<br>5. Interim remedial actions or removals |
| Physical, chemical, and biological properties | None available. | Physical, chemical, and biological properties of river sediments | Collect and analyze sediment samples. | Particle-size analyses, specific gravity, total organic carbon, sediment nutrients, hydrocarbon-utilizing microbes | 1. Engineering studies*<br>2. Remedial alternatives<br>3. Feasibility studies |
| Background upriver water and sediment contamination | Limited sediment data are available. | Nature and concentration of contaminants at upriver locations | Collect river water and sediment samples from locations upriver of areas of known contamination. | DRO, GRO, VOCs, SVOCs, PCBs/pesticides, OPPs, dioxin/furans, metals | 1. Background data<br>2. Evaluate site data<br>3. Remedial alternatives<br>4. Ecological risk assessment |
| Drums of Tar | | | | | |
| Potential for contamination of groundwater, surface water, and sediments | Limited data are available from sampling along the banks of the Chena River. | Extent of buried drums, chemical and leaching characteristics of tar | Conduct geophysical survey of drum area. Collect and analyze tar samples. | Extent of buried drums, leachability of tar | 1. Establish migration pathway<br>2. Site characterization<br>3. Engineering studies<br>4. Feasibility studies<br>5. Interim remedial actions or removals |
| Free-Product Plumes<br><br>Physical and chemical properties | None available. | Physical and chemical properties of petroleum product | Collect samples of petroleum product from each plume. | Fuel identification and quantitation, specific gravity, kinematic viscosity | 1. Remedial alternatives<br>2. Engineering studies<br>3. Feasibility studies<br>4. Treatability studies<br>5. Interim remedial actions or removals |

## Table 3-1. Data Gaps, West QFS Area (continued)

| Area of Concern | Available Data | Data Gaps | Proposed Action | Data to be Gathered | Data Use |
|---|---|---|---|---|---|
| Ecological Risk<br><br>Ecological risk assessment | Limited data are available from previous studies. | Identification of vegetation and terrestrial and aquatic fauna | Perform field surveys to characterize the terrestrial and aquatic ecological communities and habitat types present. | Vegetation community types, unnaturally denuded areas, observed plant species, animal signs and observed species, aquatic habitat types, aquatic organisms | 1. Ecological risk assessment |

| | | | |
|---|---|---|---|
| DRO | Diesel-range organics | PCBs | Polychlorinated biphenyls |
| GRO | Gasoline-range organics | SVOCs | Semivolatile organic compounds |
| OPPs | Organophosphorous pesticides | VOCs | Volatile organic compounds |
| QFS | Former Quartermaster's fueling system | * | Engineering studies include treatability studies, modeling, and leachability assessments. |
| | | ** | Sample depth increments and frequency may be changed based on professional judgement and observed soil conditions. |

## Table 3-2. Data Gaps, East QFS Area

| Area of Concern | Available Data | Data Gaps | Proposed Action | Data to be Gathered | Data Use |
|---|---|---|---|---|---|
| Air | | | | | |
| Air contamination | None available. | Nature and extent of contaminated-soil particulate dispersion via air pathway | Model particulate dispersion based on the laboratory analytical results and physical properties of surface soil. | Contaminated-soil particulate dispersion based on surface-soil analytical results. | 1. Establish air pathway<br>2. Estimate extent of contaminant migration via air pathway<br>3. Remedial alternatives<br>4. Human health risk assessment<br>5. Interim remedial actions or removals |
| Surface Soil | | | | | |
| Surface-soil contamination | Limited surface-soil analytical data have been collected. | Extent of surface-soil contamination. | Collect and analyze surface-soil samples from 0.0 to 2.0 feet deep. | DRO, GRO, VOCs, and SVOCs | 1. Establish contamination areas<br>2. Air modeling<br>3. Remedial alternatives<br>4. Human health and ecological risk assessments<br>5. Interim remedial actions or removals |
| Physical, chemical, and biological properties | Limited physical, chemical, and biological data have been collected. | Physical, chemical, and biological properties of surface soil | Collect and analyze surface-soil samples from 0.0 to 2.0 feet deep. | Particle-size analyses, moisture content, specific gravity, total organic carbon, soil nutrients, hydrocarbon-utilizing microbes | 1. Engineering studies*<br>2. Remedial alternatives<br>3. Feasibility studies<br>4. Human health and ecological risk assessments |
| Subsurface Soil | | | | | |
| Subsurface-soil contamination | Limited subsurface-soil analytical data have been collected. | Nature and extent of subsurface-soil contamination | Collect and analyze subsurface-soil samples at 5-foot intervals to a depth of 20 feet in borings.** | DRO, GRO, VOCs, SVOCs | 1. Establish contamination areas<br>2. Remedial alternatives<br>3. Human health risk assessment<br>4. Ecological risk assessment (to a maximum depth of 5 feet)<br>5. Interim remedial actions or removals |

## Table 3-2. Data Gaps, East QFS Area (continued)

| Area of Concern | Available Data | Data Gaps | Proposed Action | Data to be Gathered | Data Use |
|---|---|---|---|---|---|
| Physical, chemical, and biological properties of subsurface soil | Limited physical, chemical, and biological data have been collected. | Physical, chemical, and biological properties of subsurface soil | Collect and analyze subsurface-soil samples from borings. Conduct treatability studies. | Particle-size analyses, moisture content, specific gravity, total organic carbon, soil nutrients, hydrocarbon-utilizing microbes, soil-air permeability | 1. Engineering studies*<br>2. Remedial alternatives<br>3. Feasibility studies |
| Groundwater | | | | | |
| Groundwater contamination | Groundwater samples have been collected from existing monitoring wells. | Horizontal and vertical extents of fuel and chlorinated solvent plume | Install additional groundwater probes and monitoring wells. Collect and analyze samples from new and existing probes/wells. Conduct treatability studies. | DRO, GRO, VOCs, SVOCs, lead | 1. Evaluate extent of contamination<br>2. Evaluate remedial alternatives<br>3. Human health risk assessment<br>4. Ecological risk assessment (as potential recharge to Chena River)<br>5. Interim remedial actions or removals |
| Aquifer characteristics | Limited aquifer characteristics data have been collected. | Aquifer characteristics away from Building 1060, seasonal level fluctuations | Measure groundwater levels, velocities and flow directions; perform aquifer testing. | Estimate hydraulic conductivity, storativity, gradient, velocity, and flow direction. Estimate seasonal fluctuations in groundwater depth and flow direction. | 1. Evaluate sources and extent of contamination<br>2. Site characterization<br>3. Engineering studies*<br>4. Feasibility studies<br>5. Interim remedial actions or removals |
| Groundwater to surface water (Chena River) interaction | Limited groundwater/river interaction data are available. | Nature of transient groundwater conditions in areas influenced by Chena River hydrology | Measure groundwater fluctuations, changing gradients, and changing flow directions (triangulation studies). Install flow probes in groundwater monitoring wells. | Groundwater levels, gradients, flow velocity, flow direction, Chena River stage. | 1. Establish migration pathway<br>2. Site characterization<br>3. Engineering studies<br>4. Feasibility studies<br>5. Interim remedial actions or removals |

## Table 3-2. Data Gaps, East QFS Area (continued)

| Area of Concern | Available Data | Data Gaps | Proposed Action | Data Gathered | Data Use |
|---|---|---|---|---|---|
| Surface Water and Sediment | | | | | |
| Surface-water and sediment contamination | None. | Extent of contamination along the banks and bed of the Chena River | Collect sediment and water samples to characterize the extent of contamination. | DRO, GRO, VOCs, SVOCs, PCBs/pesticides, OPPs, dioxins/furans, metals | 1. Establish migration pathway<br>2. Establish contamination areas<br>3. Remedial alternatives<br>4. Human health and ecological risk assessments<br>5. Interim remedial actions or removals |
| Physical, chemical, and biological properties | None. | Physical, chemical, and biological properties of river sediments | Collect and analyze sediment samples. | Particle-size analyses, specific gravity, total organic carbon, sediment nutrients, hydrocarbon-utilizing microbes | 1. Engineering studies*<br>2. Remedial alternatives<br>3. Feasibility studies |
| Background upriver water and sediment contamination | Limited sediment data are available. | Nature and concentration of contaminants at upriver locations | Collect river water and sediment samples from locations upriver of areas of known contamination. | DRO, GRO, VOCs, SVOCs, PCBs/pesticides, OPPs, dioxin/furans, metals | 1. Background data<br>2. Evaluate site data<br>3. Remedial alternatives<br>4. Ecological risk assessment |
| Free-Product Plume | | | | | |
| Physical and chemical properties | None available. | Physical and chemical properties of petroleum product | Collect samples of petroleum product from each plume. | Fuel identification and quantitiation, specific gravity, kinematic viscosity | 1. Remedial alternatives<br>2. Engineering studies<br>3. Feasibility studies<br>4. Treatability studies<br>5. Interim remedial actions or removals |

## Table 3-2. Data Gaps, East QFS Area (continued)

| Area of Concern | Available Data | Data Gaps | Proposed Action | Data to be Gathered | Data Use |
|---|---|---|---|---|---|
| Ecological Risk<br><br>Ecological risk assessment | Limited data are available from previous studies. | Identification of vegetation and terrestrial and aquatic fauna | Perform field surveys to characterize the terrestrial and aquatic ecological communities and habitat types present. | Vegetation community types, unnaturally denuded areas, observed plant species, animal signs and observed species, aquatic habitat types, aquatic organisms | 1. Ecological risk assessment |

DRO Diesel-range organics
GRO Gasoline-range organics
OPPs Organophosphorous pesticides
PCBs Polychlorinated biphenyls
QFS Former Quartermaster's fueling system
SVOCs Semivolatile organic compounds
VOCs Volatile organic compounds

* Engineering studies include treatability studies, modeling, and leachability assessments.
** Sample depth increments and frequency may be changed based on professional judgement and observed soil conditions.

## Table 3-3. Data Gaps, OB/OD Source Area

| Area of Concern | Available Data | Data Gaps | Proposed Action | Data to be Gathered | Data Use |
|---|---|---|---|---|---|
| Surface Soil | | | | | |
| Surface-soil contamination | Limited surface-soil analytical data have been collected. | Nature and extent of potential metals contamination in surface soil | Collect and analyze surface-soil samples from 0 to 0.5 foot deep. | Metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, vanadium) | 1. Establish contamination areas<br>2. Remedial alternatives<br>3. Human health and ecological risk assessments<br>4. Interim remedial actions or removals |
| Physical and chemical properties of surface soil | None. | Physical and chemical properties of surface soil | Collect and analyze surface-soil samples from 0 to 0.5 foot deep. | Particle-size analyses, moisture content, specific gravity | 1. Engineering studies*<br>2. Remedial alternatives<br>3. Feasibility studies<br>4. Human health and ecological risk assessments |
| Ecological Risk<br><br>Ecological risk assessment | Limited data are available from previous studies. | Identification of vegetation and terrestrial and aquatic fauna | Perform field surveys to characterize the terrestrial and aquatic ecological communities and habitat types present. | Vegetation community types, unnaturally denuded areas, observed plant species, animal signs and observed species, aquatic habitat types, aquatic organisms | 1. Ecological risk assessment |

* Engineering studies include treatability studies, modeling, and leachability assessments.

**Subsurface Soil:** Limited subsurface-soil data have been collected from previous investigations. Subsurface-soil samples will be collected at sufficient intervals and depths to assess the lateral and vertical extents of subsurface-soil contamination; to estimate the physical, chemical, and biological soil properties; to evaluate remedial alternatives; to perform feasibility studies; and to define the risks to receptor populations.

**Groundwater:** Additional groundwater probes and monitoring wells will be installed to collect and analyze samples to assist in clarifying the horizontal and vertical extents of petroleum hydrocarbons and chlorinated solvents in the East and West QFS areas. Aquifer characteristics including hydraulic conductivity, storativity, gradient, velocity, and flow direction will be estimated. Data will be collected to characterize the nature of interaction between groundwater and the Chena River.

**Surface Water and Sediment:** Sampling will be performed at the West and East QFS areas to assess the extent of contamination along the banks and in the bed of the Chena River. Sediment and surface-water samples will be collected for laboratory contaminant analyses. These data will be used to establish migration pathways, assess the extent of contamination, evaluate remedial alternatives, and define the risks to receptor populations.

## 3.5 Developing Preliminary Remedial Action Alternatives

Preliminary remedial action alternatives to address known and suspected contamination at the OU 5 source areas are identified in this section. Identifying the data required to evaluate the remedial action alternatives is useful in developing the field investigation program (see Section 5). The process of developing preliminary remedial action alternatives is accomplished through the following steps:

- Identifying potential remedial objectives
- Identifying preliminary remedial technologies
- Developing preliminary remedial action alternatives

Specific remedial action alternatives will be evaluated as part of the FS process described in Section 5.2.

### 3.5.1 Identifying Potential Remedial Objectives

Identifying potential remedial objectives is accomplished by comparing ARARs and other standards, criteria, and guidance "to be considered" (TBC), to the contaminants of concern at OU 5. An in-depth description of ARARs and TBCs potentially applicable to OU 5 is presented in Appendix D. The description focuses on the different types of contaminated media known to be present at the source areas. Contaminants of concern vary among the OU 5 source areas. Potentially contaminated media at the OU 5 source areas include the following:

**West QFS Area**

- Soil is contaminated with petroleum hydrocarbons and possibly chlorinated solvents.
- Groundwater is contaminated with petroleum hydrocarbons and chlorinated solvents.
- Sediment is contaminated with petroleum hydrocarbons and possibly chlorinated solvents.
- Surface water is contaminated with petroleum hydrocarbons and chlorinated solvents.

**East QFS Area**

- Soil is contaminated with petroleum hydrocarbons and chlorinated solvents.
- Groundwater is contaminated with petroleum hydrocarbons and chlorinated solvents.

**OB/OD Area**

- Soil is contaminated with petroleum hydrocarbons, an organosulfur compound, and possibly metals.

The remedial objectives for petroleum hydrocarbons in soil will be established using TBC criteria from the ADEC's "Interim Guidance for Non-UST

Contaminated Soil Cleanup Levels" (1991). Cleanup levels established in this guidance range from 100 to 2,000 mg/kg for DRO; 50 to 1,000 mg/kg for GRO; 0.1 to 0.5 mg/kg for benzene; and 10 to 100 mg/kg for BTEX. The actual cleanup levels required by the ADEC will be established from site-specific data gathered during the RI.

The remedial objectives for petroleum hydrocarbons in groundwater are governed by federal and/or state MCLs. MCLs for petroleum hydrocarbon constituents include 5 µg/L for benzene; 1,000 µg/L for toluene; 700 µg/L for ethylbenzene; and 10,000µg/L for xylenes. For chlorinated solvents, MCLs include 5 µg/L for 1,2-DCA; 70 µg/L for cis-1,2-DCE; 200µg/L for 1,1,1-TCA; and 5 µ g/L for TCE.

The remedial objectives for petroleum hydrocarbons and chlorinated solvents in surface water are governed by the Alaska Quality Standard Regulations. The most stringent include 5 µg/L for benzene, 763 µg/L for 1,3-dichlorobenzene, no petroleum hydrocarbon sheen, and 10µg/L total aromatic hydrocarbons.

If the petroleum hydrocarbon constituents listed in Appendix D have no associated cleanup levels or MCLs, remedial objectives will be estimated based on the risk evaluation during the RA phase of the RI.

If necessary, remedial objectives for metals at the OB/OD area will be established by the RA.

The remedial objectives for metals in groundwater are governed by federal and/or state MCLs. The MCLs for metals are 50 mg/L for arsenic and 2,000 mg/L for barium.

Concentrations of naturally occurring metals will be considered when establishing remedial objectives for soil and water. Background levels for several metals at Fort Wainwright are presented in the USACE's *Background Data Analysis for Arsenic, Barium, Cadmium, Chromium, and Lead on Fort Wainwright, Alaska* (USACE, 1994a).

### 3.5.2 Identifying Preliminary Remedial Technologies

In this section, potential remedial technologies appropriate for treating contaminated soil and groundwater at the OU 5 source areas are identified. Several of the identified technologies may also be appropriate for treating contaminated sediment or surface water. If data collected through RI sampling indicate that sediment or surface-water treatment is necessary, the applicable remedial technologies will be evaluated.

In the following sections, the remedial technologies are grouped according to the technology type. The technologies are briefly described and their potential applicability to the OU 5 source areas is also described.

#### 3.5.2.1 Physical Treatment Processes

Physical treatment uses the physical characteristics of a waste stream to separate the waste from its matrix or separate the waste components.

**Thermal desorption:** Thermal desorption is an ex situ process that subjects wastes to temperatures sufficient to volatilize water and certain organic compounds. Application temperatures may vary from about 200° to 1,000°F depending on the waste constituents. Thermal desorption is a separation process that does not oxidize the waste. After volatilization, the organic emissions are captured or destroyed during an offgas treatment step. Thermal desorption is generally applicable to solid wastes and sludges, rather than slurries or liquids. Advantages include volume reduction, energy recovery, and materials recovery. Target contaminants for thermal desorption at OU 5 would be petroleum hydrocarbons and halogenated and nonhalogenated solvents in soil.

**Soil washing/soil flushing:** Soil washing is an ex situ process that removes contaminants sorbed onto soil particles. The washing solutions (extractant solvents) are typically aqueous based and may be augmented with surfactants or other agents to improve effectiveness. Contaminant-laden wash solutions require further treatment to separate the contaminant component for collec-

tion or destruction. Soil flushing is essentially the in situ counterpart of soil washing. Contaminants leached from the soil pass downward to the water table where they are recovered for surface treatment via extraction wells. The use of soil washing/soil flushing at OU 5 would be most appropriate for removing petroleum hydrocarbons or metals from soil.

**Soil Vapor Extraction:** This in situ process applies vacuum to vadose-zone soil to induce the volatilization and movement of VOCs. The pressure gradient created by the vacuum causes the entrained volatiles to move toward extraction wells through which the compounds are transported to the surface for offgas treatment. As an option, steam or hot air may be injected into the vadose zone to increase the mobility of volatiles and facilitate extraction. Target compounds include the volatile constituents of petroleum hydrocarbons and halogenated and nonhalogenated VOCs. SVE at OU 5 may be used to remove fuel hydrocarbons and solvents from soil, and to remove the volatile fraction from plumes of floating liquid hydrocarbons.

**Carbon Adsorption (Liquid Phase):** Carbon adsorption is a groundwater treatment process that involves pumping groundwater through a series of activated carbon canisters. Organic contaminants are removed from the groundwater by adsorbing onto the carbon. Target contaminants for carbon adsorption at OU 5 are petroleum hydrocarbons and halogenated and nonhalogenated solvents.

**Carbon Adsorption (Vapor Phase):** Contaminated vapors or offgases may be treated by passing the vapors through beds of packed activated carbon. Similar to liquid-phase carbon adsorption, this is a support technology used to treat offgases created by another remediation technology. Target compounds at OU 5 are volatile fuel hydrocarbon components and other VOCs.

**Air Stripping:** During air stripping, VOCs are remove from groundwater by aeration using systems such as packed towers or tray-type strippers. Offgas treatment is usually required. Target compounds for air stripping at OU 5 are the volatile petroleum hydrocarbons and halogenated and nonhalogenated solvents.

**Air Sparging:** Air sparging involves injecting air into the saturated zone to create the effects of a subsurface air stripper. Air is forced out of an injection well and into the surrounding water column to volatilize VOCs dissolved in the groundwater. Air sparging is generally used with SVE to collect the volatile gases. Target compounds at OU 5 are volatile petroleum hydrocarbons and halogenated and nonhalogenated solvents.

**Free-Product Recovery:** Floating liquid-phase organics (usually petroleum hydrocarbons) may be removed from the water table by pumping, skimming, or passive collection. Separating the immiscible phases at the surface may be effected using techniques such as oil/water separation. Recovered product is typically recycled. Separated water containing dissolved organics must be treated further using one of the groundwater treatment processes, such as carbon adsorption or air stripping. Free-product recovery will be used at OU 5 locations where free product has been identified.

#### 3.5.2.2 Chemical Treatment Processes

Chemical treatment processes alter the chemical structure of the constituents to produce a waste residue that is less hazardous than the original waste. In addition, the changed constituents may be easier to remove. Chemical treatment processes potentially applicable to OU 5 are discussed below.

**Chemical Reduction/Oxidation:** Through this process, soil contaminants are chemically converted to nontoxic or less toxic compounds by applying one or more reducing/oxidizing agents. The most commonly used agents are ozone, hydrogen peroxide, hypochlorites, chlorine, and chlorine dioxide. The process may be used in situ or ex situ. At OU 5, the target contaminants would be petroleum hydrocarbons, nonhalogenated solvents, and metals.

**Ultraviolet Oxidation:** Ultraviolet irradiation, in conjunction with ozone and/or hydrogen peroxide, oxidizes groundwater contaminants in a surface treatment system. Target contaminants at OU 5 are primarily halogenated volatile compounds, but petroleum hydrocarbons and nonhalogenated volatiles may also be treated.

#### 3.5.2.3 Biological Treatment Processes

Biological treatment, also known as bioremediation, is the process of enhancing the degradation of organic compounds using aerobic bacteria or, less commonly, anaerobic bacteria. The rate of natural aerobic biodegradation is usually limited by low concentrations of oxygen and inorganic nutrients (such as nitrogen, phosphorus, and potassium) in the environment. Adding nutrients and oxygen enhances the microbial growth rate and accelerates contaminant degradation. Bioremediation techniques may be applied to soil or groundwater, either in situ or ex situ. Bioremediation is not well suited for highly chlorinated hydrocarbons, dioxins/furans, inorganic salts, and some herbicides because they are toxic to microorganisms (EPA, 1988b). Table 3-4 summarizes waste characteristics that may affect bioremediation feasibility.

Types of aerobic bioremediation potentially applicable to the treatment of petroleum hydrocarbons and halogenated and nonhalogenated volatile compounds in soil and groundwater at OU 5 are discussed below.

**Bioventing:** Bioventing stimulates microbial activity in vadose-zone soil by inducing the movement of air through the subsurface. Oxygen is provided by extracting or injecting air. Air flow rates lower than SVE are used to provide only the amount of oxygen necessary for biodegradation.

**In Situ Biodegradation:** In situ biodegradation stimulates the activity of indigenous microbes by circulating water-based solutions, amended with nutrients and oxygen, to enhance biodegradation of contaminants in soil and groundwater.

**Landfarming:** During landfarming, excavated soil is placed in an engineered land treatment unit; supplemented as necessary with nutrients, water, and other amendments; and periodically tilled to provide oxygen. In some cases, contaminated surface soil may be treated in place.

**Controlled Solid-Phase Biological Treatment:** In this process, excavated contaminated soil is mixed with soil amendments and placed in an engineered enclosure (e.g., biopiles, treatment beds, or cells). The enclosure allows control of aeration (oxygen), moisture, soil temperature, nutrients, and pH to enhance microbial activity and biodegradation.

**Bioreactors:** Bioreactors treat extracted groundwater by providing an environment conducive to the direct contact of microbes with the contaminants of interest. Two principal types of bioreactors are the suspended growth system and the attached growth systems. In the suspended growth system, contaminated groundwater is circulated in an aeration tank where thriving microbial populations aerobically degrade the contaminants. In attached growth systems, microbes grow on an inert support matrix instead of being held in suspension. The degrading microbes may be derived from indigenous populations or an imported inoculum may be used.

## Table 3-4. Bioremediation Summary

| Characteristics Impacting Process Feasibility | Reason for Potential Impact | Data Collection Requirements |
|---|---|---|
| Variable waste composition | Inconsistent biodegradation caused by variation in biological activity. | Waste composition |
| Water solubility | Contaminants with low solubility are harder to biodegrade. | Solubility |
| Biodegradability | Low biodegradability inhibits process. | Chemical constituents, bench-scale testing |
| Temperature outside 15 to 70°C range | Larger, more diverse microbial population present in this range. | Temperature monitoring |
| Nutrient deficiency | Lack of adequate nutrients for biological activity (although nutrient supplements may be added). | C/N/P ratio |
| Oxygen deficiency | Lack of oxygen is rate limiting. | Oxygen monitoring |
| Moisture content | A moisture content of greater than 79 percent affects bacterial activity and availability of oxygen. A moisture content below 40 percent severely inhibits bacterial activity. | Ratio of air to water in interstices, porosity of composting mass |
| pH outside 4.5 to 8.5 range | Inhibition of biological activity. | Sludge pH testing |
| Microbial population | If indigenous microorganisms are not present, cultured strains can be added. | Culture test |
| Water and air emissions and discharges (soil composting only) | Potential environmental and/or health impacts (control achieved through air scrubbing, carbon filtration, forced aeration, cement liner). | Concentrations of contaminants |
| Compaction of compost (soil composting only) | Particles tend to coalesce and form an amorphous mass that is not easily maintained in an aerobic environment (wood chips or shredded tires may be added as bulking agents). | Determine integrity, physical nature of material |
| Nonuniform particle (soil composting only) | Waste mixtures must be of uniform particle size. | Particle-size distribution |
| Presence of elevated levels of:<br>- Heavy metals<br>- Highly chlorinated organics<br>- Some pesticides, herbicides<br>- Inorganic salts | May be highly toxic to microorganisms. | Analysis for priority pollutant |

Source: *Technology Screening Guide for Treatment of CERCLA Soils and Sludges* (EPA, 1988b).

C/N/P = Carbon/nitrogen/phosphorous.

More specific information on biological treatment processes is included in *Remediation Technologies Screening Matrix and Reference Guide* (EPA, 1993); in *Technology Screening Guide for Treatment of CERCLA Soils and Sludges* (EPA, 1988b); and in *Guidance on Remedial Actions for Contaminated Ground Water at Superfund Sites* (EPA, 1988c).

#### 3.5.2.4 Other Processes

**Solidification/Stabilization:** Solidification/stabilization may be used in situ or ex situ. Solidification physically binds or encloses the contaminant in a coherent mass. Stabilization induces a chemical reaction between stabilizing agents and the contaminants to reduce their mobility. Specific application of this process would be for metals in soil at OU 5.

**Excavation and Offsite Disposal:** This process involves excavating contaminated soil (or other materials) and transporting it to a permitted offsite disposal facility. Certain treatment standards may have to be met for landfill disposal. An offsite disposal option alleviates the contamination problem at the source site, but does not destroy the contaminants. Offsite disposal would be appropriate for contaminated soil at OU 5.

**Natural Attenuation:** Natural attenuation takes advantage of natural subsurface processes to reduce contaminant concentrations to acceptable levels over time. Typical processes include dilution, volatilization, biodegradation, adsorption, and chemical degradation. Natural attenuation is not a "no action" option; fate and transport modeling must be completed to evaluate the feasibility of using natural attenuation. It is usually employed when contaminant removals are technically impractical or when remedial measures will not significantly decrease the remediation period. At OU 5, all presently identified contaminants, with the possible exception of metals, would be subject to natural attenuation.

### 3.5.3 Developing Preliminary Remedial Alternatives

Preliminary remedial alternatives are presented in this section for the OU 5 source areas based on the remedial technologies available for addressing the remedial objectives. For each source area, a range of remedial alternatives is identified to include a no action alternative; an alternative involving containment with little or no treatment; and one or more alternatives that significantly reduce the toxicity, mobility, or volume of the contaminated material. In accordance with national policy preferences established in RCRA and SARA, alternatives involving permanent treatment are identified, when possible, instead of those that involve land disposal.

#### 3.5.3.1 West QFS Area

The West QFS area is affected by releases of petroleum hydrocarbons and halogenated solvents. This is evident in areas of contaminated soil and as plumes of benzene, free product, and 1,2-DCA in groundwater. The preliminary remedial alternatives for this source area are discussed below.

**Alternative 1 - (Natural Attenuation) Groundwater Monitoring:** This alternative involves implementing a groundwater monitoring program, but does not implement active remediation of contaminated soil or groundwater.

**Alternative 2 - (Soil Containment) Site Capping and Groundwater Monitoring:** This alternative involves implementing Alternative 1 plus capping the contaminated areas with a synthetic liner or a clay cap. Alternative 2 also involves paving with concrete or asphalt to prevent direct contact by site workers or visitors, and to minimize infiltration that could contribute to contaminant migration into groundwater. Groundwater monitoring would be performed to evaluate potential plume migration.

**Alternative 3 - Soil Excavation and Landfilling:** This alternative involves excavating all contaminated soil at the West QFS area and disposal at an offpost landfill permitted to accept the types of contaminants encountered. Excavations would be backfilled with clean, imported fill materials. No offpost landfills within Alaska will accept the contaminated soil.

**Alternative 4 - Soil Excavation With Thermal Treatment:** This alternative involves excavating the contaminated soil and using an onpost, thermal desorption unit to treat soil contaminated with petroleum hydrocarbons and VOCs.

**Alternative 5 - Soil Excavation with Bioremediation Treatment:** For this alternative, the soil would be excavated for onpost bioremediation using a landfarming process or controlled solid-phase biological treatment.

**Alternative 6 - In Situ Soil Vapor Extraction/Bioventing:** This alternative involves implementing the components of SVE and bioventing remediation systems. The volatile compounds would be removed through volatilization, while the longer-chain hydrocarbons would be subject to biodegradation. Elements of this system may include air injection/extraction wells and offgas treatment (e.g., by carbon adsorption or catalytic oxidation).

**Alternative 7 - Groundwater Pumping and Treatment:** This groundwater treatment alternative may be implemented independently or combined with any of the above soil remediation alternatives. For this alternative, the contaminated groundwater would be captured through the use of drawdown or extraction wells and treated using one of several alternatives: carbon adsorption, air stripping, biodegradation in a bioreactor, or ultraviolet oxidation. Treated effluent would be discharged either to the Chena River or reinjected to the aquifer downgradient of the site.

**Alternative 8 - In Situ Air Sparging with Soil Vapor Extraction:** For this alternative, air sparging would be performed in the saturated zone using horizontal and vertical wells. VOCs stripped from the groundwater would be removed from the vadose zone through extraction wells or a SVE system.

**Alternative 9 - Free-Product Recovery:** Liquid hydrocarbons would be removed from the water table through extraction wells or trenches. Several types of product removal devices may be used. At the surface, liquid hydrocarbons would be separated from groundwater using oil/water separation or comparable techniques. Groundwater containing dissolved hydrocarbons would be treated using one of the processes listed in Alternative 7.

### 3.5.3.2 East QFS Area

The East QFS area is affected by releases of petroleum hydrocarbons and halogenated and nonhalogenated solvents. This is evident in areas of contaminated soil and as plumes of benzene, free product, TCE, cis-1,2-DCE, and 1,1,1-TCA in groundwater. Preliminary remedial alternatives for this source area are discussed below.

**Alternative 1 - (Natural Attenuation) Groundwater Monitoring:** This alternative involves implementing a groundwater monitoring program, but does not implement active remediation of contaminated soil or groundwater.

**Alternative 2 - (Soil Containment) Site Capping and Groundwater Monitoring:** This alternative involves implementing Alternative 1 plus capping the contaminated areas using a synthetic liner or a clay cap. This alternative also involves paving the areas with concrete or asphalt to prevent direct contact by site workers or visitors, and to minimize infiltration that could contribute to contaminant migration into groundwater. Groundwater monitoring would be performed to evaluate potential plume migration.

**Alternative 3 - Soil Excavation and Landfilling:** This alternative involves excavating all contaminated soil found at the East QFS area and disposal at an offpost landfill permitted to accept the types of contaminants encountered. Excavations would be backfilled with clean, imported fill materials. No offpost landfills within Alaska will accept the contaminated soil.

**Alternative 4 - Soil Excavation With Thermal Treatment:** This alternative involves excavating the contaminated soil and using an onpost, thermal desorption unit to treat soil contaminated with petroleum hydrocarbons and VOCs.

**Alternative 5 - Soil Excavation with Bioremediation Treatment:** For this alternative, the soil would be excavated for onpost bioremediation using a landfarming process or controlled solid-

phase biological treatment. Because of the potential presence of high concentrations of chlorinated solvents, bioremediation may not be feasible for all soil in this source area.

**Alternative 6 - In Situ Soil Vapor Extraction/Bioventing:** This alternative involves implementing the components of SVE and bioventing remediation systems. The volatile compounds would be removed through volatilization, while the longer-chain hydrocarbons would be subject to biodegradation. Elements of this system may include air injection/extraction wells and offgas treatment (e.g., carbon adsorption or catalytic oxidation) units.

**Alternative 7 - Groundwater Pumping and Treatment:** This groundwater treatment alternative may be implemented independently or combined with any of the above soil remediation alternatives. For this alternative, the contaminated groundwater would be captured through the use of drawdown or extraction wells and treated using one of several alternatives: activated carbon, air stripping, biodegradation in a bioreactor, or ultraviolet oxidation. Treated effluent would be discharged either to the Chena River or reinjected to the aquifer downgradient of the site.

**Alternative 8 - In Situ Air Sparging with Soil Vapor Extraction:** For this alternative, air sparging would be performed in the saturated zone using horizontal and vertical wells. VOCs stripped from the groundwater would be removed from the vadose zone through the extraction wells of a SVE system.

**Alternative 9 - Free-Product Recovery:** Liquid hydrocarbons would be removed from the water table through extraction wells or trenches. Several types of product removal devices may be used. At the surface, liquid hydrocarbons would be separated from groundwater using oil/water separation or comparable techniques. Groundwater containing dissolved hydrocarbons would be treated using one of the processes listed in Alternative 7.

#### 3.5.3.3 OB/OD Area

The principal concern at the OB/OD area is the presence of metals in soil resulting from the demolition of ordnance devices.

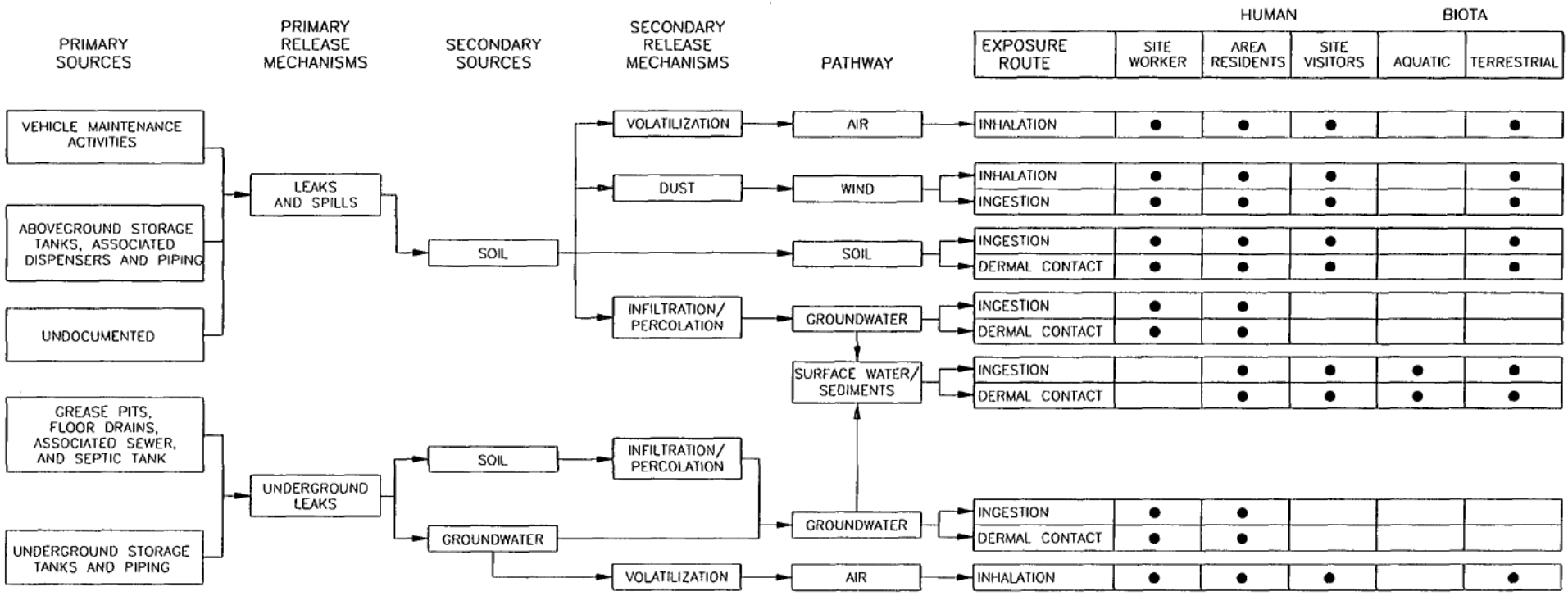
**Alternative 1 - (No Action): Groundwater Monitoring:** This alternative involves implementing a groundwater monitoring program, but does not implement active remediation of contaminated soil or groundwater.

**Alternative 2 - (Soil Containment) Site Capping and Groundwater Monitoring:** This alternative involves implementing Alternative 1 plus capping the contaminated areas using a synthetic liner or a clay cap. This alternative also involves paving the areas with concrete or asphalt to prevent direct contact by site workers or visitors, and to minimize infiltration that could contribute to contaminant migration into groundwater.

**Alternative 3 - Soil Excavation and Landfilling:** This alternative involves excavating all contaminated soil at the OB/OD area and disposal at an offpost landfill permitted to accept the types of metals encountered. Excavations would be backfilled with clean, imported fill materials. No offpost landfills within Alaska will accept the contaminated soil.

**Alternative 4 - Soil Excavation and Soil Washing:** This alternative involves excavating all contaminated soil and removing metal contaminants by soil washing. The pregnant washing solution would be further processed to concentrate the extracted metals.

**Alternative 5 - Soil Solidification/Stabilization:** This alternative involves either the in situ or ex situ solidification or stabilization of soil to physically bind or reduce the potential mobility of metal contaminants. Soil treated ex situ may be disposed of at an offpost landfill. No offpost landfills within Alaska will accept the treated soil.

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CHECKED:
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CHIEF, ARCHITECTURAL SECTION

Fort Wainwright, Alaska
OU 5, RI/FS Management Plan

**Conceptual Site Model West Section, Former Quartermaster's Fueling System**

RECOMMENDED:
CHIEF, MILITARY TECHNICAL ENGINEERING BRANCH

APPROVED: PCR
CHIEF, ENGINEERING DIVISION

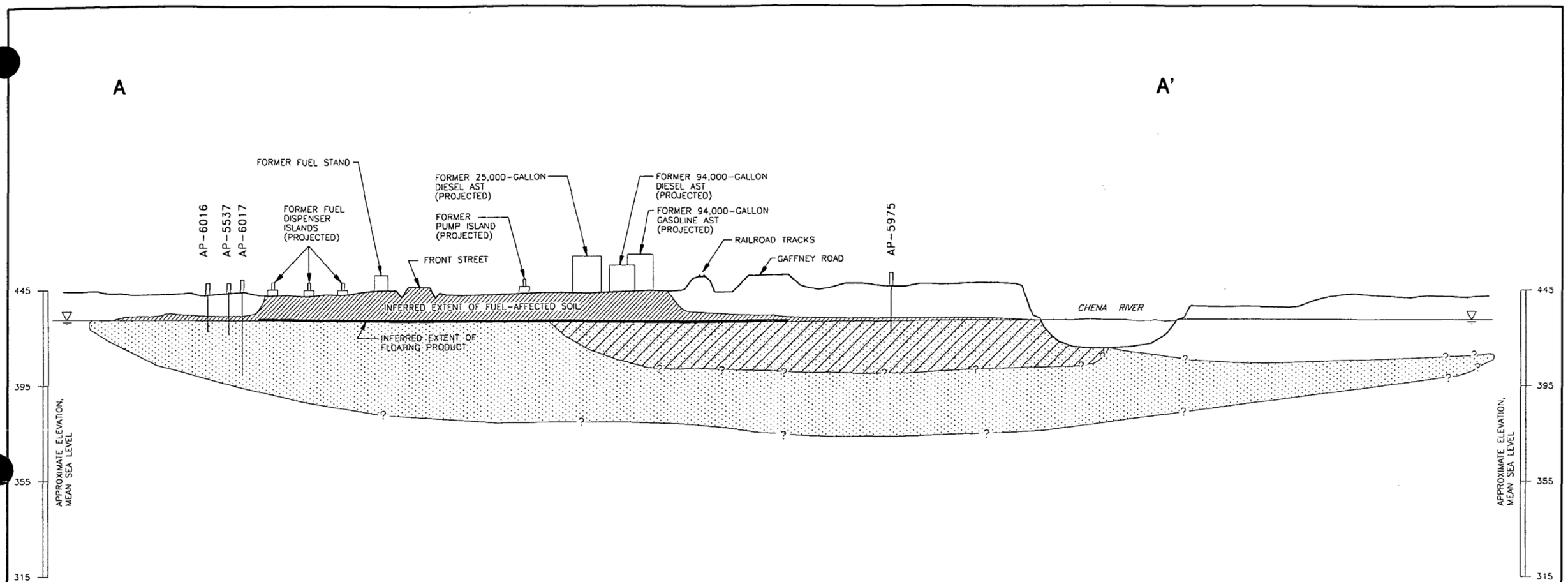
DATE: 1/95

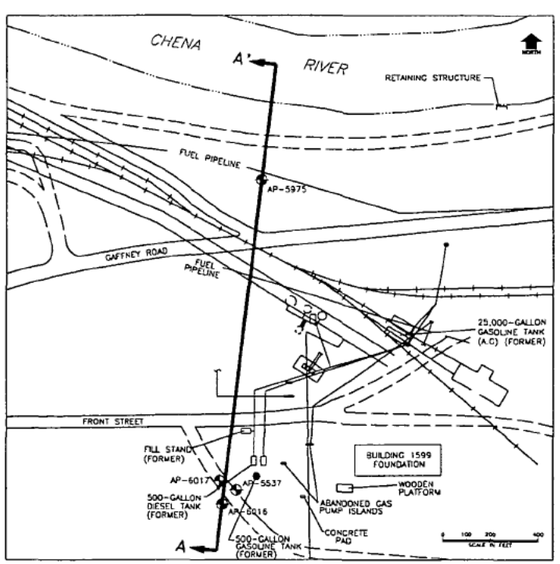
SCALE:

SPEC. NO.

FIGURE
**3-1**

427d




LEGEND

- INFERRED EXTENT OF BENZENE IN GROUNDWATER
- INFERRED EXTENT OF 1,2-DICHLOROETHANE IN GROUNDWATER
- INFERRED EXTENT OF FUEL-AFFECTED SOIL
- AST ABOVEGROUND STORAGE TANK

VERTICAL SCALE: 1" = 50'
HORIZONTAL SCALE: 1" = 100'

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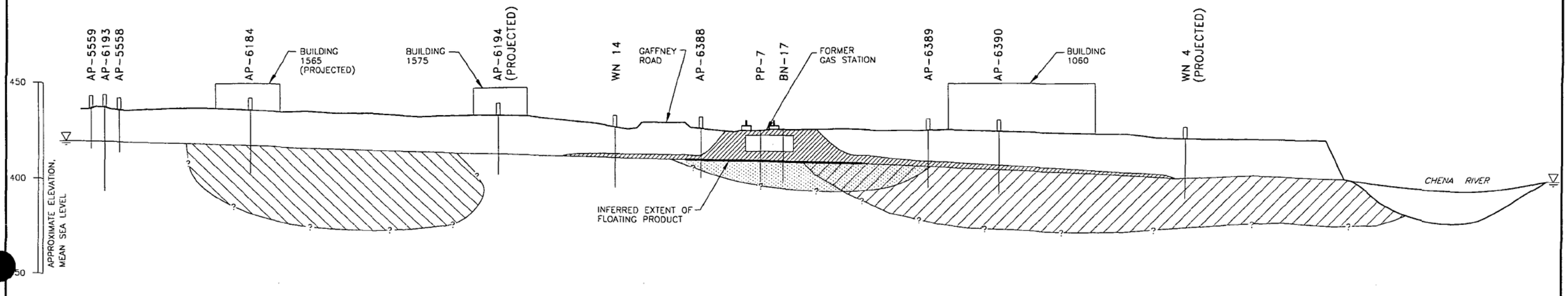
Fort Wainwright, Alaska
OU 5, RI/FS Management Plan

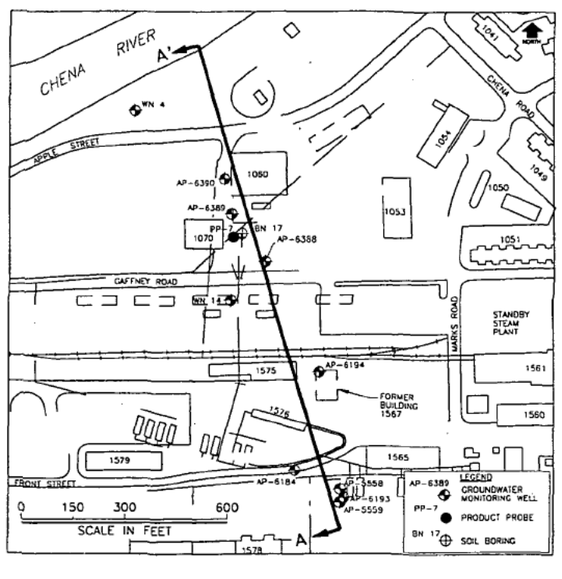
**Conceptual Site Model, West Section, Former Quartermaster's Fueling System Generalized Subsurface Profile**

APPROVED: PCR
CHIEF, ENGINEERING DIVISION
DATE: 1/95
SCALE:
SPEC. NO.

FIGURE
**3-2**

468d




LEGEND

- INFERRED EXTENT OF BENZENE IN GROUNDWATER
- INFERRED EXTENT OF TRICHLOROETHENE IN GROUNDWATER
- INFERRED EXTENT OF FUEL-AFFECTED SOIL
- INFERRED EXTENT OF 1,1,1-TRICHLOROETHANE IN GROUNDWATER

VERTICAL SCALE: 1" = 50'
HORIZONTAL SCALE: 1" = 100'

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RECOMMENDED:
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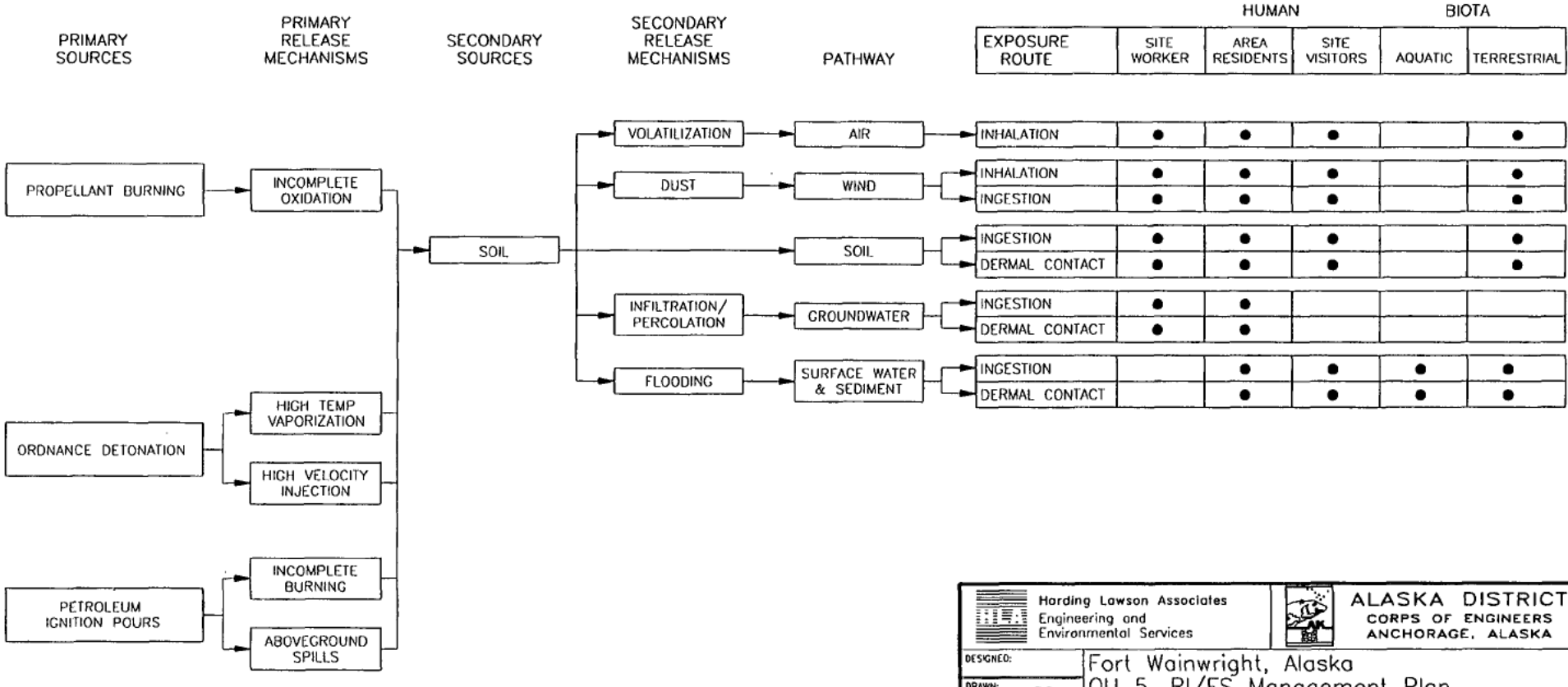
Fort Wainwright, Alaska
OU 5, RI/FS Management Plan

**Conceptual Site Model, East Section, Former Quartermaster's Fueling System Generalized Subsurface Profile**

APPROVED: PCR
CHIEF, ENGINEERING DIVISION
DATE: 1/95
SCALE:
SPEC. NO.
FIGURE
**3-4**

207b

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DRAWN: DC
TRACED:
CHECKED:
SUBMITTED:
CHIEF, ARCHITECTURAL SECTION

Fort Wainwright, Alaska
OU 5, RI/FS Management Plan

**Conceptual Site Model**
**Open Burning/Open Detonation Area**

RECOMMENDED:
CHIEF, MILITARY TECHNICAL ENGINEERING BRANCH

APPROVED: PCR
CHIEF, ENGINEERING DIVISION

DATE: 1/95

SCALE:

SPEC. NO.

FIGURE
**3-5**

427d

# 4.0 REMEDIAL INVESTIGATION/FEASIBILITY STUDY MANAGEMENT PLAN RATIONALE

This section presents the rationale for planning future RI/FS activities at OU 5. The primary objectives and approach for the OU 5 RI/FS are presented in the following sections.

## 4.1 Remedial Investigation/ Feasibility Study Objective and Approach

"The objective of the RI/FS process is not to achieve the unobtainable goal of removing all uncertainty, but rather to gather sufficient information to support an informed risk management decision regarding which remedy appears to be most appropriate for a given site" (EPA, 1988). This approach should be flexible to meet site-specific circumstances (EPA, 1988). The RI/FS process involves a phased approach to allow for collecting additional, more focused data to further develop the CSM. In developing the CSMs in Section 3, data gaps were identified (Tables 3-1 through 3-3). The data gaps have been used to develop DQOs for each of the OU 5 sites (Tables 4-1 through 4-3).

Based on the DQOs and previously defined project goals, the objectives of the OU 5 RI/FS are as follows:

- Characterize the nature and extent of surface- and subsurface-soil contamination and the potential for migration.
- Characterize the nature and extent of groundwater contamination and the potential for migration.
- Characterize the nature and extent of contaminated sediment and surface water and evaluate the potential for migration.
- Evaluate physical, chemical, and biological soil properties for treatability studies and remedial action alternatives.
- Evaluate the need for treatability studies and/or interim remedial actions or removals.
- Estimate local aquifer characteristics.
- Examine potential transport mechanisms and migration pathways for potential risks to human health and the environment, and examine remedial action alternatives.
- Evaluate the types and concentrations of site-specific contaminants in background/ upgradient media that are uninfluenced by known contaminants.

The following specific RI/FS activities will accomplish these objectives:

Remedial Investigation Activities:

- RA project planning
- Field investigations
- Sample analyses/data validation
- CSM refinement
- Interim remedial actions or removals

Feasibility Study Activities:

- Remedial alternatives development and screening
- Treatability testing
- Detailed alternative analyses

These RI/FS activities are described in detail in Section 5.

## 4.2 Project Data Requirements and Quality Considerations

Data needs are identified by evaluating the existing data and deciding which additional data are necessary to characterize the site, to develop a better conceptual understanding of the site, to better define ARARs, and to narrow the range of identified remedial alternatives (EPA, 1988).

To assist in interpreting data, the EPA has developed the following two descriptive data categories:

- Screening data with definitive confirmation
- Definitive data (EPA, 1993)

Screening data will be generated by rapid, less precise methods of analysis with less rigorous sample preparation. Screening data will provide analyte identification and quantification, although the quantification may be relatively imprecise. At least 10 percent of the screening data will be confirmed by analytical methods and QA/QC procedures, and by criteria associated with definitive data. Screening data will be collected using portable instruments or analytical instruments in a mobile or offsite laboratory.

Definitive data will be generated using EPA-approved methods. The data will be analyte specific, confirming analyte identity and concentration.

All chemical analyses used to generate definitive data, including definitively confirming screening data, are expected to be performed by a USACE contract laboratory that follows stringent QA/QC protocols. Turnaround times for analytical data must meet the 60-day turnaround time specified in the FFA. Laboratory contracts should specify required turnaround times.

## Table 4-1. Data Quality Objectives, West Section, Former Quartermaster's Fueling System Source Area

| Objective | Data Requirements | Data Use | Data Category | Sampling Approach |
|---|---|---|---|---|
| Air | | | | |
| Evaluate nature and extent of soil particulate dispersion. | Surface-soil analytical results and physical properties, and regional and local climatological data | 1) Establish contaminant migration pathway in air.<br>2) Estimate extent of contaminant migration via the air pathway.<br>3) Remedial alternatives.<br>4) Human health risk assessment.<br>5) Interim remedial actions or removals. | NA | No air sampling required. Contaminant migration via air dispersion will be modeled using surface-soil analytical results. |
| Surface Soil | | | | |
| Evaluate lateral extent of surface-soil contamination dispersion and evaluate regional and local climatological data. | Surface-soil sample laboratory analytical results | 1) Establish contaminant migration pathway in air.<br>2) Estimate extent of contaminant migration via the air pathway.<br>3) Air modeling.<br>4) Remedial alternatives.<br>5) Human health and ecological risk assessments.<br>6) Interim remedial actions or removals. | SD | Collect surface-soil samples from fuel storage and handling locations and other areas where surface spills or releases of contaminants may have occurred. |
| Evaluate physical, chemical, and biological properties. | Particle-size analyses, moisture content, specific gravity, total organic carbon, soil nutrients, hydrocarbon-utilizing microbes | 1) Engineering studies.*<br>2) Remedial alternatives.<br>3) Feasibility studies.<br>4) Interim remedial actions or removals. | SD | Collect surface-soil samples for physical, chemical, and biological parameters from areas where remediation of surface soil is most likely to occur. |
| Subsurface Soil | | | | |
| Evaluate extent of subsurface-soil contamination. | Subsurface-soil laboratory analytical results | 1) Establish contamination areas.<br>2) Remedial alternatives.<br>3) Human health risk assessment.<br>4) Ecological risk assessment (to a maximum depth of 5 feet).<br>5) Interim remedial actions or removals. | SD, DD | Drill borings to identify and define the extent of contaminated areas. Collect sufficient subsurface-soil analytical data to evaluate the type and volume of contamination. Use quick turnaround analyses to facilitate boring placement decisions. |

## Table 4-1. Data Quality Objectives, West Section, Former Quartermaster's Fueling System Source Area (continued)

| Objective | Data Requirements | Data Use | Data Category | Sampling Approach |
|---|---|---|---|---|
| Evaluate physical, chemical, and biological properties. | Particle-size analyses, moisture content, total organic carbon, soil nutrients, hydrocarbon-utilizing microbial populations, soil-air permeability | 1) Engineering studies.*<br>2) Remedial alternatives.<br>3) Feasibility studies.<br>4) Interim remedial actions or removals. | SD | Collect subsurface-soil samples and analyze for physical, chemical, and biological properties in areas where remedial activities are most likely to occur. |
| Groundwater | | | | |
| Evaluate nature and extent of groundwater contamination. | Groundwater laboratory analytical results | 1) Monitor extent of existing contamination.<br>2) Remedial alternatives.<br>3) Human health risk assessment.<br>4) Ecological risk assessment (as potential recharge to Chena River).<br>5) Interim remedial actions or removals. | SD, DD | Install groundwater probes/monitoring wells to delineate the extent of contaminant plumes. |
| Evaluate aquifer characteristics. | Hydraulic conductivity, transmissivity, storativity, gradient, and flow direction; and seasonal fluctuations in groundwater levels and flow direction | 1) Evaluate contaminant migration pathway.<br>2) Site characterization.<br>3) Engineering studies.*<br>4) Feasibility studies.<br>5) Interim remedial actions or removals. | SD | Conduct a groundwater-level survey using selected existing and proposed probes/wells. Perform slug tests. |
| Evaluate groundwater and Chena River interaction. | Groundwater levels, gradients, flow velocity, flow direction, Chena River stage | 1) Evaluate contaminant migration pathway.<br>2) Site characterization.<br>3) Engineering studies.*<br>4) Feasibility studies.<br>5) Interim remedial actions or removals. | SD | Continuously measure groundwater levels in selected monitoring wells (triangulation study). Install groundwater monitoring wells and flow probes. Monitor Chena River stage. |
| Surface Water and Sediment | | | | |
| Evaluate extent of contamination from the West QFS area that has impacted downgradient surface water and sediments of the Chena River. | Laboratory analytical data for surface-water and sediment samples collected from the Chena River channel | 1) Establish surface-water migration pathway.<br>2) Establish contamination areas.<br>3) Remedial alternatives.<br>4) Human health and ecological risk assessment.<br>5) Interim remedial actions or removals. | SD, DD | Collect surface-water and sediment samples from the Chena River at selected locations. |

## Table 4-1. Data Quality Objectives, West Section, Former Quartermaster's Fueling System Source Area (continued)

| Objective | Data Requirements | Data Use | Data Category | Sampling Approach |
|---|---|---|---|---|
| Evaluate physical, chemical, and biological properties. | Particle-size analyses, moisture content, specific gravity, total organic carbon, soil nutrients, hydrocarbon-utilizing microbes | 1) Engineering studies.*<br>2) Remedial alternatives.<br>3) Feasibility studies.<br>4) Interim remedial actions or removals. | SD | Collect sediment samples for physical, chemical, and biological parameters from areas where sediment remediation may occur. |
| Evaluate upgradient concentrations of contaminants in surface water and sediment. | Laboratory analytical data for surface-water and sediment samples collected from the Chena River | 1) Background data.<br>2) Evaluate onsite data.<br>3) Remedial alternatives.<br>4) Ecological risk assessment.<br>5) Interim remedial actions or removals. | DD | Collect surface-water and sediment samples from the Chena River at appropriate locations upgradient from areas of known contamination. |
| Tar | | | | |
| Evaluate whether drums of tar may potentially impact groundwater, surface water, and sediment. | Laboratory analytical data for samples of tar removed from the drums | 1) Establish contaminant migration pathway.<br>2) Site characterization.<br>3) Engineering studies.<br>4) Feasibility studies.<br>5) Human health and ecological risk assessments.<br>6) Interim remedial actions or removals. | SD, DD | Collect tar samples from drums located along the Chena River bank. |
| Evaluate extent of buried drums of tar. | Geophysical survey data | 1) Remedial alternatives.<br>2) Feasibility studies.<br>3) Interim remedial actions or removals. | SD | Conduct geophysical survey of the buried drum area. |
| Petroleum Product | | | | |
| Evaluate physical and chemical characteristics of free product. | Laboratory analytical data for samples of petroleum product | 1) Remedial alternatives.<br>2) Engineering studies.<br>3) Feasibility studies.<br>4) Treatability studies.<br>5) Interim remedial actions or removals. | SD, DD | Collect petroleum product samples from free-product plumes. |

DD Definitive data
NA Not applicable
POL Petroleum, oils, and lubricants
QFS Quartermaster's fueling system
SD Screening data with definitive confirmation

* Engineering studies include treatability studies, modeling, and leachability assessments.

## Table 4-2. Data Quality Objectives, East Section, Former Quartermaster's Fueling System Source Area

| Objective | Data Requirements | Data Use | Data Category | Sampling Approach |
|---|---|---|---|---|
| Air | | | | |
| Evaluate nature and extent of soil particulate dispersion. | Surface-soil analytical results and physical properties, and regional and local climatological data | 1) Establish contaminant migration pathway in air.<br>2) Estimate extent of contaminant migration via the air pathway.<br>3) Remedial alternatives.<br>4) Human health risk assessment.<br>5) Interim remedial actions or removals. | NA | No air sampling required. Contaminant migration via air dispersion will be modeled using surface-soil analytical results. |
| Surface Soil | | | | |
| Evaluate lateral extent of surface-soil contamination and evaluate regional and local climatological data. | Surface-soil sample laboratory analytical results | 1) Establish contaminant migration pathway in air.<br>2) Estimate extent of contaminant migration via the air pathway.<br>3) Air modeling.<br>4) Human health and ecological risk assessments.<br>5) Interim remedial actions or removals. | SD | Collect surface-soil samples from fuel storage and handling locations and other areas where surface spills or releases of contaminants may have occurred. |
| Evaluate physical, chemical, and biological properties. | Particle-size analyses, moisture content, specific gravity, total organic carbon, soil nutrients, hydrocarbon-utilizing microbes | 1) Engineering studies.*<br>2) Remedial alternatives.<br>3) Feasibility studies.<br>4) Interim remedial actions or removals. | SD | Collect surface-soil samples for physical, chemical, and biological parameters from areas where remediation of surface soil is most likely to occur. |
| Subsurface Soil | | | | |
| Evaluate extent of subsurface-soil contamination. | Subsurface-soil laboratory analytical results | 1) Establish contamination areas.<br>2) Remedial alternatives.<br>3) Human health risk assessments.<br>4) Ecological risk assessment (to a maximum depth of 5 feet).<br>5) Interim remedial actions or removals. | SD,DD | Drill borings to identify and define the extent of contaminated areas encountered during surface-soil sampling. Collect sufficient subsurface-soil analytical data to evaluate the type and volume of contamination. Use quick turnaround analyses to facilitate boring placement decisions. |

## Table 4-2. Data Quality Objectives, East Section, Former Quartermaster's Fueling System Source Area (continued)

| Objective | Data Requirements | Data Use | Data Category | Sampling Approach |
|---|---|---|---|---|
| Evaluate physical, chemical, and biological properties. | Particle-size analyses, moisture content, total organic carbon, soil nutrients, hydrocarbon-utilizing microbial populations, soil-air permeability | 1) Engineering studies.*<br>2) Remedial alternatives.<br>3) Feasibility studies.<br>4) Interim remedial actions or removals. | SD | Collect subsurface-soil samples and analyze for physical, chemical, and biological properties in areas where remedial activities are most likely to occur. |
| Groundwater | | | | |
| Evaluate nature and extent of groundwater contamination. | Groundwater laboratory analytical results | 1) Monitor extent of existing contamination.<br>2) Remedial alternatives.<br>3) Human health risk assessment.<br>4) Ecological risk assessment (as potential recharge to Chena River)<br>5) Interim remedial actions or removals. | SD, DD | Install groundwater probes/monitoring wells north of the Chena River to delineate the extent of contaminant plumes. |
| Evaluate aquifer characteristics. | Hydraulic conductivity, transmissivity, storativity, gradient, and flow direction; and seasonal fluctuations in groundwater levels and flow direction | 1) Evaluate contaminant migration pathway.<br>2) Site characterization.<br>3) Engineering studies.*<br>4) Feasibility studies.<br>5) Interim remedial actions or removals. | SD | Conduct a groundwater-level survey using selected existing and proposed probes/wells. Perform slug tests and possible pump tests. |
| Evaluate groundwater and Chena River interaction. | Groundwater levels, gradients, flow velocity, flow direction, Chena River stage | 1) Evaluate contaminant migration pathway.<br>2) Site characterization.<br>3) Engineering studies.*<br>4) Feasibility studies.<br>5) Interim remedial actions or removals. | SD | Continuously measure groundwater levels in selected monitoring wells (triangulation study). Install groundwater monitoring wells and flow probes. Monitor Chena River stage. |
| Surface Water and Sediment | | | | |
| Evaluate the effects of contaminants from the East QFS area on down-gradient surface water and sediment of the Chena River. | Laboratory analytical data for surface-water and sediment samples collected from the Chena River channel | 1) Establish surface-water migration pathway.<br>2) Establish contamination areas.<br>3) Remedial alternatives.<br>4) Human health and ecological risk assessments.<br>5) Interim remedial actions or removals. | SD, DD | Collect surface-water and sediment samples from the Chena River adjacent to and downgradient of the East QFS area. |

## Table 4-2. Data Quality Objectives, East Section, Former Quartermaster's Fueling System Source Area (continued)

| Objective | Data Requirements | Data Use | Data Category | Sampling Approach |
|---|---|---|---|---|
| Evaluate physical, chemical, and biological properties. | Particle-size analyses, moisture content, total organic carbon, soil nutrients, hydrocarbon-utilizing microbial populations, soil air permeability | 1) Engineering studies.*<br>2) Remedial alternatives.<br>3) Feasibility studies.<br>4) Interim remedial actions or removals. | SD | Collect sediment samples and analyze for physical, chemical, and biological properties in areas where remedial activities may occur. |
| Evaluate upgradient concentrations of contaminants in surface water and sediment. | Laboratory analytical data for surface-water and sediment samples collected from the Chena River at locations upgradient of the East QFS area | 1) Background data.<br>2) Evaluate onsite data.<br>3) Remedial alternatives.<br>4) Ecological risk assessment.<br>5) Interim remedial actions or removals. | DD | Collect surface-water and sediment samples from the Chena River upgradient from areas of known contamination. |
| Petroleum Product | | | | |
| Evaluate physical and chemical characteristics of free product. | Laboratory analytical data for samples of petroleum product | 1) Remedial alternatives.<br>2) Engineering studies.<br>3) Feasibility studies.<br>4) Treatability studies.<br>5) Interim remedial actions or removals. | SD, DD | Collect petroleum product samples from free-product plumes. |

DD Definitive data
NA Not applicable
POL Petroleum, oils, and lubricants
QFS Quartermaster's fueling system
SD Screening data with definitive confirmation
VOCs Volatile organic compounds

* Engineering studies include treatability studies, modeling, and leachability assessments.

## Table 4-3. Data Quality Objectives, Open Burning/Open Detonation Source Area

| Objective | Data Requirements | Data Use | Data Category | Sampling Approach |
|---|---|---|---|---|
| Surface Soil | | | | |
| Evaluate nature and extent of metals contamination in surface soil. | Surface-soil laboratory analytical results | 1) Establish contamination areas.<br>2) Remedial alternatives.<br>3) Human health and ecological risk assessments.<br>4) Interim remedial actions or removals. | SD, DD | Collect surface-soil analytical data to evaluate the types and extent of surface-soil contamination. |
| Evaluate physical and chemical properties. | Particle-size analyses, moisture content, specific gravity, total organic carbon | 1) Engineering studies.*<br>2) Remedial alternatives.<br>3) Feasibility studies.<br>4) Interim remedial actions or removals. | DD | Collect surface-soil samples for physical and chemical parameters from areas where surface-soil remediation is most likely to occur. |
| Evaluate types and concentrations of metals in background surface soil to assist in evaluating site data. | Background surface-soil laboratory analytical results | 1) Background data.<br>2) Evaluate onsite data.<br>3) Remedial alternatives.<br>4) Ecological risk assessment.<br>5) Interim remedial actions or removals. | DD | Collect surface-soil samples from an area northeast of the OB/OD area that is uninfluenced by contaminant sources. |

DD Definitive data
SD Screening data with definitive confirmation

* Engineering studies include treatability studies, modeling, and leachability assessments

# 5.0 REMEDIAL INVESTIGATION/FEASIBILITY STUDY TASKS

This section describes the techniques that will be used to conduct the OU 5 RI/FS. RI tasks are described in Section 5.1, and FS tasks are described in Section 5.2. Some RI and FS activities will be performed concurrently.

## 5.1 Remedial Investigation Tasks

The following RI tasks will be performed:

- Project planning
- Field investigations
- Sample analyses/data validation
- HRAs and ERAs

The following sections describe specific objectives and subtasks associated with each of the RI tasks. Sampling requirements and procedures are described in detail in the FSP (Appendix A).

### 5.1.1 Project Planning

Project planning covers subtasks required to initiate project activities, including initial evaluation activities to define the project scope and preparing planning documents for the RI/FS. Project planning was divided into the following subtasks:

**Analyzing Existing Data** - A review of existing data was performed to establish physical site characteristics and identify additional sampling needs. This review provided the framework to design an investigation for collecting the necessary quantity and quality of data. Data gaps identified during this search are presented in Section 3.4.

The review also identified ongoing studies that will fill data gaps concerning hydrogeologic conditions on the post. The agencies conducting these studies include the CRREL; the USGS's Water Resources Division in Fairbanks, Alaska; and the University of Alaska Fairbanks (UAF), Water Research Center. The studies are being conducted to support environmental restoration efforts under CERCLA and include the following:

- Basewide groundwater modeling - The USGS will develop a base-wide groundwater model that may be used in conjunction with other studies to estimate fate and transport of dissolved contaminants. Data collected by the USGS include routine measurements of the stage and discharge of the Chena River, and groundwater levels at Fort Wainwright OU sites. The USGS will estimate aquifer characteristics by measuring groundwater-level changes in response to changes in river stage.
- Developing and implementing a geographic information system (GIS) - CRREL will develop a GIS that will integrate ground-penetrating radar (GPR) data and other geological data to increase the understanding of Fort Wainwright hydrogeology. The GIS will improve the ability to analyze the fate and transport of contaminants and contaminant plume dynamics at OU sites.
- Groundwater flow and contaminant transport analyses - CRREL will conduct three-dimensional groundwater flow and contaminant transport analyses for selected sites at Fort Wainwright. The results will be used to develop quantitative CSMs for selecting remedial alternatives, designing the remedial plan, and in assessing future groundwater contamination risks for remedial alternatives under CERCLA.
- Geologic and geophysical investigations of hydrogeologic conditions - CRREL will conduct geological and geophysical investigations of the permafrost distribution, groundwater conditions, and hydrogeology of designated sites at Fort Wainwright.
- Site-specific, in situ groundwater flow analyses - CRREL will install and monitor flow probes in groundwater monitoring wells to define site-specific groundwater conditions at OU sites.

- Continuous determination of groundwater flow direction and gradient (triangulation study) - CRREL will measure groundwater levels and calculate continuous groundwater flow directions and gradients at selected sites at Fort Wainwright.
- Investigating contaminant transport processes - UAF will investigate the effect of discontinuous permafrost on subsurface hydrologic processes; the impact of local conditions (geology, temperature, and permafrost distribution) on contaminant transport; and the impact of subsurface thermal processes on hydrology and contaminant transport.

The work plans for these studies are contained in CH2M Hill's document titled *Draft Compiled Work Plans for Groundwater Analysis Tasks at Fort Wainwright, Alaska* (1995). To the extent possible, field investigations described in this MP will be coordinated with these agencies to minimize duplicating effort. Data will be integrated with the data collected while implementing the FSP to support developing CSMs and assessing remedial alternatives in the RI/FS report.

**Developing Preliminary Conceptual Site Models** - Background data on OU 5 sites were used to develop CSMs for identifying and evaluating contaminant sources, release mechanisms, transport pathways, exposure routes, and receptors. Key elements of the models are described in Section 3.

**Identifying Preliminary Remedial Action Objectives** - Preliminary remedial action objectives were developed for each contaminated medium, and a preliminary range of remedial action alternatives was identified. These objectives and alternatives are presented in Section 3.5.

**Identifying Preliminary ARARs** - Potential location- and chemical-specific ARARs were identified to guide the investigation and to assist in developing alternatives. During the RI/FS, additional location- and action-specific ARARs may be identified. ARARs are presented in Appendix D. Final determinations of the applicability or relevance of particular standards will not be made until remedial alternatives are examined during the FS phase of the project.

**Identifying DQOs** - Identifying DQOs is critical to successfully completing the RI. The approach used to develop DQOs was based on guidance provided in the EPA's *Data Quality Objectives Process for Superfund - Interim Final Guidance* (1993b). Using this guidance, DQOs were defined so the data collected will be of sufficient quality and quantity for their intended uses. A process of identifying decision types, delineating data uses/gaps, and designing the sample collection program was used. Tables 4-1 through 4-3 summarize DQOs.

### 5.1.2 Field Investigations

The field investigation program for OU 5 has been designed to generate maximum data quickly. The program includes

- Geophysical surveys;
- Surface-soil sampling;
- Subsurface-soil sampling;
- Groundwater sampling;
- Hydrologic data collection;
- Surface-water/sediment sampling;
- Background soil, water, and sediment sampling.

These field investigative activities are described in detail in the FSP and the QAPjP (Appendixes A and B).

### 5.1.3 Interim Remedial Actions and Removal Actions

Interim remedial actions (IRAs) or removal actions may be appropriate for some areas within OU 5 to reduce risk to the environment or human receptors. During the course of the RI, the OU 5 source areas will be evaluated to identify whether IRAs or removals may be needed. IRAs or removals will be proposed for

- Areas where actions taking one construction season (May through October) or less can substantially reduce the present risk,
- Areas where the present risk is expected to increase if no action is taken.

The proposed IRAs or removals will identify the contaminant, the risk to be reduced or eliminated, the method of remediation proposed, and the specific scope of the proposed action. Remedial measures should be readily apparent so further investigation is not necessary to identify the appropriate action.

Time-critical actions will be proposed if the site conditions present real and imminent threats to human health or the environment. Non-time critical actions will be proposed if site conditions indicate the need for remedial actions, but the threat is not imminent. The following conditions are indicators that an IRA or removal is appropriate:

- Existing data indicate that an IRA or removal will reduce real or potential risk to human health and/or the environment;
- The type of contamination and the concentration range appear to be adequately described by the existing data;
- The scope of the problem is well defined and limited;
- The required action is readily apparent (e.g., floating product on the groundwater), so an RI/FS to select the remedial option is not required.

### 5.1.4 Sample Analysis/Data Validation

Sample analyses parameters were designed to meet data requirements for the categories of data use described in Tables 4-1 through 4-3 in Section 4 (i.e., environmental characterization, air modeling, migration pathways determination, engineering studies, FS, contaminant characterization, remedial action alternatives, and risk assessment). Analytical detection limits will be established to meet DQOs defined in Section 4.1, and are provided in Table B-1 of the QAPjP (Appendix B). A description of the analytical parameters is provided in the following sections.

#### 5.1.4.1 Analytical Requirements

Sample analytical parameters and methods are presented in Table 5-1. Quantitation limits are approximate and may differ according to the selected project laboratory.

The project laboratory will be expected to meet or exceed established QC limits for accuracy, precision, and sensitivity methods (see the QAPjP, Appendix B). Analyses of laboratory method blanks, spiked samples, duplicate samples, and reference standards will be used to assess these parameters. Approximately 10 percent of the total number of samples will be collected for internal laboratory QC checks. Appropriate corrective measures, as specified in the analytical methods, will be required when QC results fall outside established control limits.

Field duplicates and blank samples will be submitted to the laboratory as external QC samples. Approximately 10 percent of the total number of samples will be collected as external QC samples. Trip and sample equipment blanks will be analyzed to monitor field and/or laboratory contamination. Field duplicates will be analyzed to monitor laboratory precision and field variability. The QA program is described in the QAPjP (Appendix B).

#### 5.1.4.2 Data Validation and Reduction

The USACE North Pacific Division (NPD) laboratory, CENPD-PE-GE-L, will validate the project laboratory's sample results as described in the QAPjP (Appendix B).

Project laboratory data generated from samples will be reviewed by comparing calibration, accuracy, and precision to the QC criteria listed in the method description (SW-846) (EPA, 1986). The validation procedures are composed of the following steps:

## Table 5-1. Sample Analytical Parameters, Operable Unit 5, Fort Wainwright, Alaska

| Parameter | Matrix | Method[a] | Quantitation Limit[b] | Data Use |
|---|---|---|---|---|
| Diesel-Range Organics | Surface soil, subsurface soil, sediment, surface water, groundwater | SW-846 Method 8100, Modified per ADEC | Soil: 5.0 mg/kg<br>Water: 0.1 mg/L | Site characterization, remedial alternatives, risk assessment, interim remedial actions or removals |
| Gasoline-Range Organics | Surface soil, subsurface soil, sediment, surface water, groundwater | SW-846 Method 8015, Modified per ADEC | Soil: 5.0 mg/kg<br>Water: 0.1 mg/L | Site characterization, remedial alternatives, risk assessment, interim remedial actions or removals |
| Fuel Identification and Quantitation | Petroleum product | SW-846 Method 8015, modified per USACE | Liquid: 0.1 mg/L | Site characterization, remedial alternatives |
| Volatile Organic Compounds | Surface soil, subsurface soil, sediment, surface water, groundwater | SW-846 Method 8260 | Soil[d]: 0.01 mg/kg<br>Water: 1.0 - 5.0 μg/L | Site characterization, remedial alternatives, risk assessment, interim remedial actions or removals |
| Volatile Organic Compounds | Tar | TCLP Extraction/40 CFR 136 Method 1624 | Water: 10 - 50 μg/L | Site characterization, remedial alternatives, risk assessment, interim remedial actions or removals |
| Semivolatile Organic Compounds | Surface soil, subsurface soil, sediment, surface water, groundwater | SW-846 Method 8270 | Soil: 0.33 - 0.80 mg/kg<br>Water: 5.0 - 20 μg/L | Site characterization, remedial alternatives, risk assessment, interim remedial actions or removals |
| Semivolatile Organic Compounds | Tar | TCLP Extraction/40 CFR 136 Method 1625 | Water: 10 - 50 μg/L | Site characterization, remedial alternatives, risk assessment, interim remedial actions or removals |
| Polychlorinated Biphenyls/Pesticides | Sediment, surface water | SW-846 Method 8080 | Soil: 0.0017 - 0.170 mg/kg<br>Water: 0.01 - 0.2 μg/L | Site characterization, remedial alternatives, risk assessment, interim remedial actions or removals |
| Organophosphorous Pesticides | Sediment, surface water | SW-846 Method 8140 | Soil: 0.2-1.0 mg/kg<br>Water: 1.0-15.0 μg/L | Site characterization, remedial alternatives, risk assessment, interim remedial actions or removals |

## Table 5-1. Sample Analytical Parameters, Operable Unit 5, Fort Wainwright, Alaska (continued)

| Parameter | Matrix | Method[a] | Quantitation Limit[b] | Data Use |
|---|---|---|---|---|
| Dioxins/Furans | Sediment | SW-846 Method 8290 | Soil: 0.2 - 1.0 ppt<br>Water: 0.002 - .01 ppt | Site characterization, remedial alternatives, risk assessment, interim remedial actions or removals |
| Total Metals | Sediment, surface water | SW-846 Methods 6010/7060/7421/7471/ 7470/7740 | Soil: 0.2-30 mg/kg<br>Water: 0.2-20 $\mu$g/L | Site characterization, remedial alternatives, risk assessment, interim remedial actions or removals |
| Total Organic Carbon | Surface soil, subsurface soil, sediment | Modified ASTM[c] D4129-82 | Soil: 5,000 mg/kg<br>Water: 5.0-70 mg/L | Leachability assessments, feasibility studies, remedial alternatives, treatability studies |
| Nitrogen, Nitrate/Nitrite | Surface soil, subsurface soil, sediment | Method 353.2[d] | Soil: 1 mg/kg<br>Water: 0.1 mg/L | Feasibility studies, remedial alternatives, treatability studies |
| Nitrogen, Kjeldahl Total | Surface soil, subsurface soil, sediment | Method 351.3[d] | Soil: 100 mg/kg<br>Water: 0.2 mg/L | Feasibility studies, remedial alternatives, treatability studies |
| Phosphorous, ortho-Phosphate | Surface soil, subsurface soil, sediment | Method 365.2[d] | Soil: 0.1 mg/kg<br>Water: 0.01 mg/L | Feasibility studies, remedial alternatives, treatability studies |
| Nitrogen, Ammonia | Surface soil, subsurface soil, sediment | Method 350.1[d] | Soil: 5 mg/kg<br>Water: 0.05 mg/L | Feasibility studies, remedial alternatives, treatability studies |
| Specific Heterotrophic Degrader Population Count | Surface soil, subsurface soil, sediment | MPN Modification of Method 907b[d] | NA | Feasibility studies, remedial alternatives, treatability studies |

## Table 5-1. Sample Analytical Parameters, Operable Unit 5, Fort Wainwright, Alaska (continued)

| Parameter | Matrix | Method[a] | Quantitation Limit[b] | Data Use |
|---|---|---|---|---|
| Grain Size | Surface soil, subsurface soil, sediment | ASTM D 421-85, D 422-92[c] | NA | Feasibility studies, remedial alternatives, treatability studies, leachability assessments, interim remedial actions or removals |
| Specific Gravity of Soil Solids | Surface soil, subsurface soil, sediment | ASTM D 854-92[c] | NA | Dispersion modeling, treatability studies |
| Moisture Content | Surface soil, subsurface soil | ASTM D 2216-92[c] | NA | Remedial alternatives, feasibility studies, treatability studies, leachability assessments, interim remedial actions or removals |
| Specific Gravity | Petroleum product | ASTM D 287-92c | NA | Interim remedial action or removal |
| Viscosity | Petroleum product | ASTM D 445-92c | NA | Interim remedial action or removal |
| Temperature | Surface water, groundwater | SOP | NA | Remedial alternatives, feasibility studies, treatability studies |
| Dissolved Oxygen | Surface water, groundwater | SOP | NA | Remedial alternatives, feasibility studies, treatability studies, site characterization |
| Turbidity | Surface water, groundwater | SOP | NA | Remedial alternatives, feasibility studies, treatability studies |
| pH | Surface water, groundwater | SOP | NA | Remedial alternatives, feasibility studies, treatability studies |

## Table 5-1. Sample Analytical Parameters, Operable Unit 5, Fort Wainwright, Alaska (continued)

| Parameter | Matrix | Method[a] | Quantitation Limit[b] | Data Use |
|---|---|---|---|---|
| Conductivity | Surface water, groundwater | SOP | NA | Remedial alternatives, feasibility studies, treatability studies |
| Oxidation-Reduction Potential | Surface water, groundwater | SOP | NA | Remedial alternatives, feasibility studies, treatability studies |

ADEC Alaska Department of Environmental Conservation.
ASTM American Society for Testing and Materials.
CFU Cubit feet per unit.
µg/L Micrograms per liter.
mg/kg Milligrams per kilogram.
mg/L Milligrams per liter.
ml Milliliters.
mm Millimeters.
NA Not applicable.
Pb Lead.
ppt Parts per trillion.
SOP Standard operating procedure.
TCLP Toxicity characteristic leaching procedure.

a. Methods are contained in United States Environmental Protection Agency (EPA) *Test Methods for Evaluation of Solid Waste*, SW-846, 3rd edition, September 1986 as amended through update I (July 1992).
b. Quantitation limits may be adjusted for sample weight and sample dilution. Quantitation limits are typical, attainable method quantitation limits. Actual laboratory reporting limits may differ from those listed.
c. American Society for Testing and Materials.
d. Method contained in *EPA methods for Chemical Analysis of Water and Wastes, EPA-600 4-79-020*, March 1983.

- Verify that correct samples were analyzed and reported in appropriate units.
- Verify preservation and holding times.
- Verify that sample temperatures were within the range of 2°C to 6°C when delivered to the laboratory.
- Verify that initial and continuing calibrations were performed and met QC criteria.
- Verify that analytes were not present in the method blanks and that a minimum of 1 blank was run for every 20 samples (5 percent).
- Verify that surrogate recoveries were sufficient for all organic analyses, where applicable.
- Verify that a duplicate and matrix spike, or a matrix spike/matrix spike duplicate were run every 20 samples and that QC criteria were within control limits.

Laboratory data calculations and reductions will be performed as described in the applicable method references. Raw data (including laboratory worksheets, notebooks, sample tracking records, instrument logs, standard and sample preparation logs, calibration data, and associated QC records) should be retained by the laboratory for a minimum of 10 years and be available for inspection if necessary.

In addition, an independent review of the analytical data will be performed according to EPA laboratory data validation guidelines (EPA, 1988b and 1988c). This independent review will verify that data packages are complete, and will check the accuracy and precision for a minimum of 10 percent of reported analytical data.

### 5.1.5 Human Health Risk Assessment

Data collected for the RI at OU 5 will be used in part to establish the human health risks of contaminants as they exist at the source areas. This section summarizes how the HRA will be developed. The OU 5 HRA is included in Appendix F.

HRA activities for the three OU 5 source areas will be conducted according to national and regional EPA guidance. The principal guidance documents for these activities will include

- *Risk Assessment Guidance for Superfund: Volume 1 - Human Health Evaluation Manual, Part A* (EPA, 1989a).
- *Human Health Evaluation Manual, Supplemental Guidance: Standard Default Exposure Factors*, Office of Solid Waste and Emergency Response (OSWER) Directive 9285.6-03 (EPA, 1991a).
- *Guidance on Data Usability in Risk Assessment*, OSWER Directive 9285.09a (EPA, 1992b).
- *EPA Region 10 Supplemental Risk Assessment Guidance for Superfund* (EPA, 1992a).

The EPA Region 10 supplemental RA guidance divides RA activities into three phases: project planning, preliminary data analyses, and baseline RA report preparation. Preparing this MP is the final element of the Phase I RA activities. The Phase I RA includes

- A CSM
- Preliminary remedial goals
- A preliminary review of potential exposure scenarios and pathways

These items are described in the next section.

#### 5.1.5.1 Phase I Risk Assessment - Project Planning

**Conceptual Site Models**

The preliminary CSMs (Section 3) include a review of potential exposure scenarios and pathways. CSMs are subject to review and revision throughout the RI process as additional information becomes available.

### Preliminary Remedial Goals

The primary purpose of assembling or developing preliminary remedial goals is to provide the potentially responsible parties (PRPs) and agency managers with early information on the anticipated range of risk-based concentrations (RBCs) that may become goals for site cleanup actions. A secondary purpose is to identify gaps in the availability of toxicological information early in the RA process so steps may be taken to obtain necessary information quickly.

The following steps are involved in developing preliminary remedial goals:

- Identifying expected chemicals of potential concern (COPCs),
- Identifying potential ARARs,
- Assembling toxicological information on the expected COPCs.

If required, the RA contractor will develop preliminary remedial goals as a first task. A preliminary list of COPCs will be based on site history and characteristics, and the nature of activities conducted. Chemicals likely to be included in the preliminary list of COPCs may be derived from the CSMs.

Standards for soil, water, and air (specified in federal or state regulations) that may become ARARs are identified and described in Appendix D. These include drinking water MCLs and maximum contaminant level goals (MCLGs), ambient water quality criteria (AWQC), National Ambient Air Quality Standards, National Emissions Standards for Hazardous Air Pollutants (NESHAPs), and applicable ADEC regulations.

Toxicological information will be assembled from the EPA's Integrated Risk Information System (IRIS) database (EPA, 1992c) and the Health Effects Assessment Summary Tables (HEAST) (EPA, 1994). Additional toxicological information that may be necessary to complete the RA must be identified as soon as possible to allow time to obtain information from alternate sources such as the Agency for Toxic Substances and Disease Registry (ATSDR).

The list of ARARs and RBCs will be calculated and tabulated using EPA Region 3 toxicological data and methods described in Appendix I of the EPA Region 10 Supplemental Risk Assessment.

### 5.1.5.2 Phase II Risk Assessment - Preliminary Data Analysis/Site Characterization Summary

### Identifying COPCs

A three-step analysis of validated data will be conducted to select the final list of COPCs to be used in the baseline RA.

First, data will be reviewed for usability in the RA by using criteria recommended in Chapter 4 of the *Risk Assessment Guidance for Superfund, Human Health Evaluation Manual (RAGS-HHEM)* (EPA, 1989a) and in the EPA's data usability guidance (EPA, 1992b). This step verifies that data used in the RA satisfy applicable QA criteria, and that field or laboratory contaminants have been screened out.

Second, for naturally occurring chemicals, investigation sample results will be compared to background samples or to background concentrations reported in the scientific literature, if site-specific background information is unavailable or inadequate. Statistical techniques may be used to objectively compare investigative data to background levels. Techniques may include student t-tests or other appropriate tests for group comparisons, and/or comparing individual sample results to the background value distribution using statistical markers.

Finally, if a large number of candidate COPCs remain after the first two steps, a risk-based screening procedure will be used to eliminate chemicals unlikely to contribute significantly to the site risks. The maximum concentrations of each chemical found in each medium will be identified and compared to a risk-based screening value. If the maximum water concentration of a chemical is less that the concentration corresponding to a cancer risk of $10^{-6}$ or a hazard quotient of 0.1, and if the maximum soil concentration is less than the concentration corresponding to a cancer risk of $10^{-7}$ or a hazard quotient of 0.1, the chemical will be eliminated (EPA,

1992b). All other chemicals will be selected as COPCs and will be carried through the baseline RA.

A preliminary list of COPCs is presented in Table 5-2 with the analytical method reporting limits (MRLs) and human health RBCs.

Due to the detection methods and equipment used to analyze the samples and matrix interference difficulties, the MRLs of particular chemicals may be greater than the potential ARARs. The extent of contamination for a chemical with a detected concentration and an elevated MRL greater than the potential ARAR may not be fully known. The human health effects of chemicals that were not detected, but that have MRLs greater than potential ARARs, may require additional evaluation and will be addressed in the HRA.

### Revising the Conceptual Site Models

Once complete site characterization information is available (principally the results from the RI studies) and the final list of COPCs has been selected, CSMs will be revised as needed to reflect the nature and extent of contamination associated with each source area. The revised CSMs will include exposure scenarios that could be complete under current or potential future land-use conditions.

### Selecting Exposure Pathways and Receptors for Evaluation

The potential exposure pathways and receptors identified previously will be reviewed and revised as needed. Exposure scenarios with the potential to result in significant exposure to site-derived contaminants will be evaluated in the baseline RA. The potential for significant exposure to occur (acute, subchronic, and chronic exposures) and the potential for exposure of sensitive subgroups (such as children, the sick, or the elderly) will be considered in selecting exposure scenarios, pathways, and receptors for evaluation.

Exposure scenarios and pathways for the areas of potential concern within OU 5 were described in detail in Section 3 (Conceptual Site Models). The following pathways will be considered in the RA:

- Dermal contact and ingestion of surface-soil contaminants by site workers and onsite visitors;
- Inhalation of vapors emanating from the soil, groundwater, or surface water by site workers or other nearby individuals;
- Ingestion, dermal contact, or inhalation of groundwater contaminants by groundwater users;
- Dermal contact and incidental ingestion of surface-water contaminants by individuals coming in contact with contaminants in surface water.

In addition, future residential scenarios will be evaluated for each source area.

### Selecting Exposure Point Contaminant Concentrations

The exposure point contaminant concentrations in the exposure estimation phase of the RA may be selected in several ways. As a general rule, actual measured contaminant concentrations in exposure media at the exposure point will be used when available. Average exposure will be estimated using the arithmetic or geometric mean concentration, and reasonable maximum exposure will be estimated using the upper 95th-percentile confidence level on the arithmetic or geometric mean concentration. However, it may not always be feasible or practical to measure the exposure point concentration directly, or measured values may not best represent exposure concentrations expected to occur over the exposure period. In these cases, modeling approaches may be used with or in place of measured concentrations to obtain more representative exposure point contaminant concentration estimates. The guidance provided in Section 6.5 of RAGS-HHEM (EPA, 1989a) will be used to identify the most appropriate data for calculating exposure point concentrations.

### Selecting Exposure Factors

Standard default exposure assumptions recommended by national and regional EPA guidance documents (1991b and 1992b) will be used when available. The EPA *Exposure Factors Handbook* (1990) and other literature sources may be consulted for guidance on suitable values for exposure factors, or exposure scenarios for which standard default guidance is not available. The EPA RPM and RA specialist will be consulted on the selection and use of any nonstandard exposure factor values.

## Table 5-2. Comparison of Risk-Based Concentrations, Maximum Contaminant Levels, and Method Reporting Limits for Soil and Water

| | Chemicals of Potential Concern | Soil MRL[a] (mg/kg) | Residential Soil RBC (mg/kg) | Water MRL (µg/L) | Tap Water RBC (µg/L) | Drinking Water MCL (µg/L) |
|---|---|---|---|---|---|---|
| | Volatile Organic Compounds - EPA Method 8260 | | | | | |
| * | 1,1-Dichloroethene | 0.01 | 1.1 c | 1 | 0.044 c | 7 |
| | 1,1,1-Trichloroethane | 0.01 | 7,000 n | 1 | 1,300 n | 200 |
| * | 1,1,2-Trichloroethane | 0.01 | 11 c | 1 | 0.19 c | 5 |
| * | 1,1,2,2-Tetrachloroethane | 0.01 | 3.2 c | 1 | 0.52 c | -- |
| * | 1,2-Dichloroethane | 0.01 | 7 c | 1 | 0.12 c | 5 |
| * | 1,2-Dichloropropane | 0.01 | 9.4 c | 5 | 0.16 c | 5 |
| * | 1,2-Dibromo-3-chloropropane | 0.01 | 0.046 c | 1 | 0.048 c | -- |
| * | 1,2-Dibromoethane (EDB) | 0.01 | 0.0075 c | 1 | 0.00075 c | 0.05 |
| | 1,2-Dichlorobenzene | 0.01 | 7,000 n | 1 | 370 n | 600 |
| | 1,2,3-Trichlorobenzene | 0.01 | -- | 1 | -- | -- |
| | 1,2,4-Trichlorobenzene | 0.01 | 780 n | 1 | 190 n | 70 |
| * | 1,2,3-Trichloropropane | 0.01 | 0.091 c | 1 | 0.0015 c | -- |
| | 1,2,4-Trimethylbenzene | 0.01 | 39 n | 1 | 3 n | -- |
| | 1,3,5-Trimethylbenzene | 0.01 | 31 n | 1 | 2.4 n | -- |
| | 1,3-Dichlorobenzene | 0.01 | 7,000 n | 1 | 540 n | -- |
| * | 1,4-Dichlorobenzene | 0.01 | 27 c | 1 | 0.44 c | 75 |
| | 1,1-Dichloroethane | 0.01 | 7,800 n | 1 | 810 n | -- |
| | 1,3-Dichloropropane | 0.01 | -- | 1 | -- | -- |
| | 1,1-Dichloropropene | 0.01 | -- | 1 | -- | -- |
| * | 1,1,1,2-Tetrachloroethane | 0.01 | 25 c | 1 | 0.41 c | -- |
| | 2,2-Dichloropropane | 0.01 | -- | 1 | -- | -- |
| | 2-Butanone | 0.01 | 4,700 n | 2 | 22,000 n | -- |
| | 2-Chlorotoluene | 0.01 | -- | 1 | -- | -- |
| | 4-Chlorotoluene | 0.01 | -- | 1 | -- | -- |
| | Acetone | 0.01 | 7,800 n | 2 | 3,700 n | -- |
| * | Benzene | 0.01 | 22 c | 1 | 0.36 c | 5 |
| | Bromobenzene | 0.01 | -- | 1 | -- | -- |
| | Bromochloromethane | 0.01 | -- | 1 | -- | -- |
| * | Bromodichloromethane[b] | 0.01 | 10 c | 1 | 0.17 c | 100 |
| | Bromoform[b] | 0.01 | 81 c | 1 | 2.4 c | 100 |
| | Bromomethane | 0.01 | 110 n | 1 | 8.7 n | -- |
| * | Carbon tetrachloride | 0.01 | 4.9 c | 1 | 0.16 c | 5 |
| | Chlorobenzene | 0.01 | 1,600 n | 1 | 39 n | 100 |
| | Chloroethane | 0.01 | 31,000 n | 1 | 8,600 n | |
| * | Chloroform[b] | 0.01 | 100 c | 1 | 0.15 c | 100 |
| | Chloromethane | 0.01 | 49 c | 1 | 1.4 c | -- |
| | cis-1,3-Dichloropropene | 0.005 | -- | 1 | -- | -- |
| | cis-1,2-Dichloroethene | 0.01 | 780 n | 1 | 61 n | 70 |
| * | Dibromochloromethane[b] | 0.01 | 7.6 c | 1 | 0.13 c | -- |
| | Dibromoethane | 0.01 | -- | 1 | -- | -- |
| | Dichlorodifluoromethane | 0.01 | 1,600 n | 1 | 390 n | -- |
| | Ethylbenzene | 0.01 | 7,800 n | 1 | 1,300 n | 700 |
| * | Hexachlorobutadiene | 0.01 | 8.2 c | 1 | 0.14 c | -- |
| | Isopropylbenzene | 0.01 | -- | 1 | -- | -- |
| | Methylene chloride | 0.01 | 85 c | 2 | 4.1 c | 5 |
| | n-Butylbenzene | 0.01 | -- | 1 | -- | -- |
| | n-Propylbenzene | 0.01 | -- | 1 | -- | -- |
| | Naphthalene | 0.01 | 3,100 n | 1 | 1,500 n | -- |
| | p-Isopropyltoluene | 0.01 | -- | 1 | -- | -- |
| | sec-Butylbenzene | 0.01 | 780 n | 1 | 61 n | -- |

## Table 5-2. Comparison of Risk-Based Concentrations, Maximum Contaminant Levels, and Method Reporting Limits for Soil and Water (continued)

| | Chemicals of Potential Concern | Soil MRL[a] (mg/kg) | Residential Soil RBC (mg/kg) | Water MRL (µg/L) | Tap Water RBC (µg/L) | Drinking Water MCL (µg/L) |
|---|---|---|---|---|---|---|
| | Volatile Organic Compounds - EPA Method 8260 | | | | | |
| | Styrene | 0.01 | 20 c | 1 | 2 c | 100 |
| | tert-Butylbenzene | 0.01 | 780 n | 1 | 61 n | -- |
| | Tetrachloroethene | 0.01 | 12 c | 1 | 1.1 c | 5 |
| | Toluene | 0.01 | 16,000 n | 1 | 750 n | 1,000 |
| | Xylenes | 0.01 | 160,000 n | 1 | 12,000 n | 10,000 |
| | trans-1,2-Dichloroethene | 0.01 | 1,600 n | 1 | 120 n | 100 |
| | trans-1,3-Dichloropropene | 0.005 | 80 n | 1 | 9 n | -- |
| | Trichloroethene | 0.01 | 2,000 n | 1 | 1.6 c | 5 |
| | Trichlorofluoromethane | 0.01 | 23,000 n | 1 | 1,300 n | -- |
| * | Vinyl chloride | 0.01 | 0.34 c | 1 | 0.019 c | 2 |
| | Semivolatile Organic Compounds - EPA Method 8270 | | | | | |
| | 1,2-Dichlorobenzene | 0.33 | 7,000 n | 5 | 370 n | 600 |
| | 1,3-Dichlorobenzene | 0.33 | 7,000 n | 5 | 540 n | -- |
| | 1,2,4-Trichlorobenzene | 0.33 | 780 n | 5 | 190 n | 70 |
| | 2,4-Dimethylphenol | 0.33 | 1,600 n | 5 | 730 n | -- |
| | 2,4-Dichlorophenol | 0.33 | 240 n | 5 | 110 n | -- |
| * | 2,4,6-Trichlorophenol | 0.33 | 5.8 c | 5 | 1.6 c | -- |
| | 2,4,5-Trichlorophenol | 0.8 | 7,800 n | 20 | 3,700 n | -- |
| | 2,4-Dinitrophenol | 0.33 | 160 n | 20 | 73 n | -- |
| | 2,4-Dinitrotoluene | 0.33 | 160 n | 5 | 73 n | -- |
| | 2,6-Dinitrotoluene | 0.33 | 78 n | 5 | 37 n | -- |
| | 2-Chloronaphthalene | 0.33 | 20,000 n | 5 | 3,000 n | -- |
| | 2-Chlorophenol | 0.33 | 390 n | 5 | 180 n | -- |
| | 2-Methylnaphthalene | 0.33 | -- | 5 | -- | -- |
| | 2-Methylphenol | 0.33 | 3,900 n | 5 | 1,800 n | -- |
| * | 2-Nitroaniline | 0.8 | 4.7 n | 50 | 2.2 n | -- |
| | 2-Nitrophenol | 0.33 | 50,000 n | 5 | 7,000 n | -- |
| * | 3,3-Dichlorobenzidine | 0.33 | 1.4 c | 5 | 0.15 c | -- |
| | 3-Nitroaniline | 0.33 | 230 n | 20 | 110 n | -- |
| | 4,6-Dinitro-2-methylphenol | 0.8 | -- | 20 | -- | -- |
| | 4-Bromophenyl phenyl ether | 0.33 | 4,500 n | 5 | 2,100 n | -- |
| | 4-Chloro-3-methylphenol | 0.33 | -- | 5 | -- | -- |
| | 4-Chloroaniline | 0.33 | 310 n | 5 | 150 n | -- |
| | 4-Chlorophenyl phenyl ether | 0.33 | -- | 5 | -- | -- |
| | 4-Methylphenol | 0.33 | 390 n | 5 | 180 n | -- |
| | 4-Nitroaniline | 0.8 | 230 n | 20 | 110 n | -- |
| | 4-Nitrophenol | 0.33 | 4,800 n | 20 | 2,300 n | -- |
| | Acenaphthene | 0.33 | 20,000 n | 5 | 2,000 n | -- |
| | Acenapthylene | 0.33 | 4,700 n | 5 | 2,200 n | -- |
| | Anthracene | 0.33 | 23,000 n | 5 | 11,000 n | -- |
| * | Benzo(a)anthracene | 0.33 | 0.88 c | 5 | 0.0092 c | -- |
| * | Benzo(a)pyrene | 0.33 | 0.088 c | 10 | 0.0092 c | 0.2 |
| * | Benzo(b)fluoranthene | 0.33 | 0.88 c | 10 | 0.0092 c | -- |
| | Benzo(g,h,i)perylene | 0.33 | -- | 5 | -- | -- |
| * | Benzo(k)fluoranthene | 0.33 | 8.8 c | 10 | 0.92 c | -- |
| | Benzoic acid | 0.33 | 310,000 n | 5 | 150,000 n | -- |
| | Benzyl alcohol | 0.33 | 23,000 n | 5 | 11,000 n | -- |
| | bis(2-Chloroethoxy)methane | 0.33 | -- | 5 | -- | -- |
| * | bis(2-Chloroethyl)ether | 0.33 | 0.58 c | 10 | 0.0092 c | -- |
| * | bis(2-Chloroisopropyl)ether | 0.33 | 9.1 c | 5 | 0.26 c | -- |
| * | bis(2-Ethylhexyl)phthalate | 0.33 | 46 c | 5 | 4.8 c | 6 |
| | Butyl benzyl phthalate | 0.33 | 16,000 n | 5 | 7,300 n | -- |
| * | Chrysene | 0.33 | 88 c | 10 | 9.2 c | -- |

## Table 5-2. Comparison of Risk-Based Concentrations, Maximum Contaminant Levels, and Method Reporting Limits for Soil and Water (continued)

| | Chemicals of Potential Concern | Soil MRL[a] (mg/kg) | Residential Soil RBC (mg/kg) | Water MRL (µg/L) | Tap Water RBC (µg/L) | Drinking Water MCL (µg/L) |
|---|---|---|---|---|---|---|
| | Semivolatile Organic Compounds - EPA Method 8270 | | | | | |
| | di-n-Butylphthalate | 0.33 | 30,000 n | 5 | 4,000 n | -- |
| | di-n-Octyl-phthalate | 0.33 | 1,600 n | 5 | 730 n | -- |
| * | Dibenzo(a,h)anthracene | 0.33 | 0.088 c | 10 | 0.0092 c | -- |
| | Dibenzofuran | 0.33 | 300 n | 5 | 40 n | -- |
| | Diethylphthalate | 0.33 | 63,000 n | 5 | 29,000 n | -- |
| | Dimethyl phthalate | 0.33 | 780,000 n | 5 | 370,000 n | -- |
| | Fluoranthene | 0.33 | 3,100 n | 5 | 1,500 n | -- |
| | Fluorene | 0.33 | 3,100 n | 5 | 1,500 n | -- |
| * | Hexachlorobenzene | 0.33 | 0.4 c | 10 | 0.0066 c | 1 |
| * | Hexachlorobutadiene | 0.33 | 500 n | 5 | 0.14 c | -- |
| * | Hexachlorocyclopentadiene | 0.33 | 550 n | 5 | 0.15 n | 50 |
| | Hexachloroethane | 0.33 | 300 n | 5 | 40 n | -- |
| * | Indeno(1,2,3-cd)pyrene | 0.33 | 0.88 c | 10 | 0.092 c | -- |
| | Isophorone | 0.33 | 50,000 n | 5 | 7,000 n | NA |
| * | n-Nitroso-di-n-propylamine | 0.33 | 0.091 c | 10 | 0.0096 c | -- |
| | n-Nitrosodiphenylamine | 0.33 | 130 c | 5 | 14 c | -- |
| | Naphthalene | 0.33 | 3,100 n | 5 | 1,500 n | -- |
| * | Nitrobenzene | 0.33 | 39 n | 5 | 3.4 n | -- |
| * | Pentachlorophenol | 0.8 | 5.3 c | 50 | 0.56 c | 1 |
| | Phenanthrene | 0.33 | -- | 5 | -- | -- |
| | Phenol | 0.33 | 47,000 n | 5 | 22,000 n | -- |
| | Pyrene | 0.33 | 2,300 n | 5 | 1,100 n | -- |
| | Polychlorinated Biphenyls (PCBs)/ Pesticides - EPA Method 8080 | | | | | |
| | 4,4'-DDD | 0.0033 | 2.7 c | 0.02 | 0.28 c | -- |
| | 4,4'-DDE | 0.0033 | 1.9 c | 0.02 | 0.2 c | -- |
| | 4,4'-DDT | 0.0033 | 100 n | 0.02 | 0.2 c | -- |
| * | Aldrin | 0.0017 | 0.038 c | 0.01 | 0.004 c | NA |
| | Alpha BHC | 0.0017 | 0.1 c | 0.01 | 0.01 c | NA |
| | Aroclor 1016 | 0.033 | 5.5 n | 0.2 | 2.6 n | -- |
| * | Aroclor 1221 | 0.067 | 0.083 c | 0.2 | 0.0087 c | -- |
| * | Aroclor 1232 | 0.033 | 0.083 c | 0.2 | 0.0087 c | -- |
| * | Aroclor 1242 | 0.033 | 0.083 c | 0.2 | 0.0087 c | -- |
| * | Aroclor 1248 | 0.033 | 0.083 c | 0.2 | 0.0087 c | -- |
| * | Aroclor 1254 | 0.033 | 0.083 c | 0.2 | 0.0087 c | -- |
| * | Aroclor 1260 | 0.033 | 0.083 c | 0.2 | 0.0087 c | -- |
| | Beta BHC | 0.0017 | 0.4 c | 0.01 | 0.05 c | -- |
| | Chlordane | 0.0017 | 0.49 c | 0.01 | 0.052 c | 2 |
| | Delta BHC | 0.0017 | -- | 0.01 | -- | -- |
| | Dieldrin | 0.0033 | 0.04 c | 0.02 | 0.0042 c | -- |
| | Endosulfan ( I, II ) | 0.0033 | 470 n | 0.02 | 220 n | -- |
| | Endosulfan sulfate | 0.0033 | -- | 0.02 | -- | -- |
| | Endrin | 0.0033 | 23 n | 0.02 | 11 n | 2 |
| | Endrin aldehyde | 0.0033 | -- | 0.02 | -- | -- |
| | Heptachlor | 0.0017 | 0.14 c | 0.01 | 0.0023 c | 0.4 |
| * | Heptachlor epoxide | 0.0017 | 4 n | 0.01 | 0.0012 c | 0.2 |
| * | Lindane | 0.0017 | 0.5 c | 0.01 | 0.06 c | 0.2 |
| * | Methoxychlor | 0.017 | 0.5 c | 0.1 | 0.06 c | 40 |
| * | PCBs (total) | 0.1 | 0.083 c | 0.2 | 0.0087 c | 0.5 |
| * | Toxaphene | 0.17 | 0.58 c | 1 | 0.061 c | 3 |

## Table 5-2. Comparison of Risk-Based Concentrations, Maximum Contaminant Levels, and Method Reporting Limits for Soil and Water (continued)

| | Chemicals of Potential Concern | Soil MRL[a] (mg/kg) | Residential Soil RBC (mg/kg) | Water MRL (µg/L) | Tap Water RBC (µg/L) | Drinking Water MCL (µg/L) |
|---|---|---|---|---|---|---|
| | Pesticides (Organophosphorous) - EPA Method 8140 | | | | | |
| | Azinphos methyl | 5 | -- | 0.1 | -- | -- |
| | Bolstar | 3.5 | -- | 0.07 | -- | -- |
| | Chlorpyrifos | 5 | 230 n | 0.07 | 110 n | -- |
| | Coumaphos | 10 | -- | 0.2 | -- | -- |
| * | Demeton-O and Demeton-S | 6 | 3.1 n | 0.12 | 1.5 n | -- |
| | Diazinon | 10 | 70 n | 0.2 | 33 n | -- |
| * | Dichlorvos | 40 | 2.2 n | 0.8 | 0.23 n | -- |
| * | Disulfoton | 3.5 | 3.1 n | 0.07 | 1.5 n | -- |
| | Ethoprop | 10 | -- | 0.2 | -- | -- |
| | Fensulfothion | 4 | -- | 0.08 | -- | -- |
| | Fenthion | 5 | -- | 0.08 | -- | -- |
| * | Merphos | 10 | 2.3 n | 0.2 | 1.1 n | -- |
| | Mevinphos | 25 | -- | 0.5 | -- | -- |
| | Naled | 25 | 160 n | 0.5 | 73 n | -- |
| | Parathion methyl | 6 | -- | 0.12 | -- | -- |
| | Phorate | 2 | 16 | 0.04 | 7.3 n | -- |
| | Ronnel | 3.5 | 3,900 n | 0.07 | 1,800 n | -- |
| * | Stirophos | 40 | 27 c | 80 | 2.8 c | -- |
| | Takuthion | 5.5 | -- | 0.07 | -- | -- |
| | Dioxins/Furans - EPA Method 8290 | | | | | |
| | 1,2,3,4,6,7,8-HpCDD | 0.2 - 0.5E-06 | -- | 0.5 - 1.0E-05 | -- | -- |
| | 1,2,3,4,6,7,8-HpCDF | 0.2 - 0.5E-06 | -- | 0.5 - 1.0E-05 | -- | -- |
| | 1,2,3,4,7,8,9-HpCDF | 0.2 - 0.5E-06 | -- | 0.5 - 1.0E-05 | -- | -- |
| | 1,2,3,4,7,8-HxCDD | 0.2 - 0.5E-06 | -- | 0.5 - 1.0E-05 | -- | -- |
| | 1,2,3,4,7,8-HxCDF | 0.2 - 0.5E-06 | -- | 0.5 - 1.0E-05 | -- | -- |
| | 1,2,3,6,7,8-HxCDD | 0.2 - 0.5E-06 | -- | 0.5 - 1.0E-05 | -- | -- |
| | 1,2,3,6,7,8-HxCDF | 0.2 - 0.5E-06 | -- | 0.5 - 1.0E-05 | -- | -- |
| | 1,2,3,7,8,9-HxCDD | 0.2 - 0.5E-06 | -- | 0.5 - 1.0E-05 | -- | -- |
| | 1,2,3,7,8,9-HxCDF | 0.2 - 0.5E-06 | -- | 0.5 - 1.0E-05 | -- | -- |
| | 1,2,3,7,8-PeCDD | 0.2 - 0.5E-06 | -- | 0.5 - 1.0E-05 | -- | -- |
| | 1,2,3,7,8-PeCDF | 0.2 - 0.5E-06 | -- | 0.5 - 1.0E-05 | -- | -- |
| | 2,3,4,7,8-PeCDF | 0.2 - 0.5E-06 | -- | 0.5 - 1.0E-05 | -- | -- |
| * | 2,3,7,8-TCDD | 0.2 - 0.5E-06 | 4.1 E - 06 c | 0.5 - 1.0E-05 | 4.3 E - 07 c | 3.00E-05 |
| | 2,3,7,8-TCDF | 0.2 - 0.5E-06 | -- | 0.5 - 1.0E-05 | -- | -- |
| | HpCDD-Total | 0.2 - 0.5E-06 | -- | 0.5 - 1.0E-05 | -- | -- |
| | HpCDF-Total | 0.2 - 0.5E-06 | -- | 0.5 - 1.0E-05 | -- | -- |
| | HxCDD-Total | 0.2 - 0.5E-06 | -- | 0.5 - 1.0E-05 | -- | -- |
| | HxCDF-Total | 0.2 - 0.5E-06 | -- | 0.5 - 1.0E-05 | -- | -- |
| | OCDD | 0.2 - 0.5E-06 | -- | 0.5 - 1.0E-05 | -- | -- |
| | OCDF | 0.2 - 0.5E-06 | -- | 0.5 - 1.0E-05 | -- | -- |
| | PeCDD-Total | 0.2 - 0.5E-06 | -- | 0.5 - 1.0E-05 | -- | -- |
| | PeCDF-Total | 0.2 - 0.5E-06 | -- | 0.5 - 1.0E-05 | -- | -- |
| | TCDD-Total | 0.2 - 0.5E-06 | -- | 0.5 - 1.0E-05 | -- | -- |
| | TCDF-Total | 0.2 - 0.5E-06 | -- | 0.5 - 1.0E-05 | -- | -- |

## Table 5-2. Comparison of Risk-Based Concentrations, Maximum Contaminant Levels, and Method Reporting Limits for Soil and Water (continued)

| | Chemicals of Potential Concern | Soil MRL[a] (mg/kg) | Residential Soil RBC (mg/kg) | Water MRL (µg/L) | Tap Water RBC (µg/L) | Drinking Water MCL (µg/L) |
|---|---|---|---|---|---|---|
| | Metals - EPA Method 6010 (except where noted) | | | | | |
| * | Arsenic - (Method 7060) | 1 | 23 n | 2 | 0.038 c | 50 |
| | Barium | 30 | 5,500 n | 20 | 2,600 n | 2,000 |
| | Cadmium | 1 | 39 n | 2 | 18 n | 5 |
| | Chromium (Total) | 2 | -- | 10 | 40,000 n | 100 |
| | Chromium VI - (Method 7197) | 2 | 390 n | 10 | 180 n | 100 |
| * | Lead - (Method 7421) | 1 | 400 d | 2 | 0.0037 n | 15 e |
| | Mercury - (Method 7470) | 0.2 | 23 n | 0.2 | 11 n | 2 |
| | Selenium - (Method 7740) | 1 | 390 n | 2 | 180 n | 50 |
| | Silver | 2 | 390 n | 10 | 180 n | -- |
| | Vanadium | 2.5 | 550 n | 5 | 260 n | -- |

* The MRL for this chemical is higher than one or more of the regulated limits (MCL), or risk-based screening concentrations (RBC and HQ).
-- Value not established.
BHC Benzene hexachloride.
DDD Dichlorodiphenyldichloroethane.
DDE Dichlorodiphenyldichloroethene.
DDT Dichlorodiphenyltrichloroethane.
EPA U.S. Environmental Protection Agency
MCL Maximum contaminant levels established in the Federal Safe Drinking Water Act, PL93-523; and the State of Alaska Drinking Water Regulations, Title 18, Chapter 80.
µg/L Micrograms per liter.
mg/kg Milligrams per kilogram.
MRL Method reporting limits.
NA Toxicity value not available; risk-based concentration cannot be calculated.
RBC Carcinogenic risk-based concentration.

a. Method reporting limits may be adjusted for sample weight and sample dilution. Method reporting limits are typical and attainable. Actual laboratory reporting limits may differ from those listed.

b. The 100 µg/L MCL applies to total trihalomethanes.

c. Carcinogenic effects; $10^{-6}$ RBC, from *EPA Region 3 Risk-Based Concentration Table, Third Quarter,* 1994.

d. Based on Office of Solid Waste and Emergency Response (OSWER) Directive No. 9355.4-12, the EPA recommends a 400 mg/kg screening level for lead in soil for residential land use (EPA, 1994).

e. The EPA's action level for lead is applicable in drinking water at the point of use.

n. Noncarcinogenic effects; hazard quotient is equal to 1, from *EPA Region 3 Risk-Based Concentration Table, Third Quarter*, 1994.

### Phase II Risk Assessment Deliverables

RA memoranda may be prepared describing evaluation of site characterization data, COPCs, exposure pathways and receptors, exposure point concentrations, and exposure factor values. The RA memoranda will be prepared if situations arise that are not outlined in the RA approach document. The RA memoranda will be provided after site characterization work has been completed and validated data are available. These memoranda may include the following information: background, data review and COPC selection; exposure assessment (selection of exposure pathways, receptors, and exposure factors); and toxicity assessment (reference doses and cancer slope factors). RA tasks remaining after preparing these memoranda will be calculating the risk estimate and preparing the text.

#### 5.1.5.3 Phase III Risk Assessment - Risk Assessment Reports

### Preparing the Baseline Human Health Risk Assessment Report

The baseline RA report for OU 5, prepared according to applicable national and regional guidance, and organized according to RAGS-HHEM (EPA, 1989a), will include the following:

- A brief review of the site history, the environmental setting, and relevant findings of site investigations;
- A description of the contaminants at the site and selected COPCs;
- A CSM identifying the potential contaminant migration and exposure pathways, potential receptors, and routes of exposure for each source area;
- An exposure assessment providing quantitative exposure estimates;
- A toxicity assessment summarizing the toxicological properties of the COPCs and compiling their quantitative indices of toxicity (reference doses and carcinogenic slope factors);
- A risk characterization combining the information developed in the exposure and toxicity assessments to obtain quantitative estimates of the risks posed by COPCs at the site;
- An uncertainty analysis identifying uncertainty in the RA process and assessing its impact on the risk estimates.

### Risk Evaluation of Remedial Alternatives

Guidance on providing RA input into the evaluation of remedial alternatives for Superfund sites has been released as Parts B and C of RAGS-HHEM (EPA, 1989a). The RA activities that will be required depend on the outcome of the RI, on the baseline RA, and on the remedial alternatives identified in the FS.

### 5.1.6 Ecological Risk Assessment

The ecological risk screening assessment will follow the general guidance recommended by the EPA (1989d) for the ERA portion of RI/FS activities at federal Superfund sites, and will consist of the following activities:

- Performing a reconnaissance field survey to identify and locate habitats and environments (aquatic and terrestrial) on or surrounding the area, and to evaluate signs of stress, diversity, and significant variance from comparable nonimpacted communities. The presence of critical habitats, sensitive environments, and important or endangered species that may inhabit or migrate through the area will be evaluated in consultation with local, state, and federal Natural Resource Trustees.
- Identifying exposure pathways for specific receptors. A CSM will be developed that identifies sources(s) of contaminants, likely migration pathways, and the extent of migration based on topography, hydrology, geology, and geochemistry of the area, and the physical properties of the contaminants.

The reconnaissance field survey will consist of mapping vegetation communities and habitats that occur on or surround each source area. Lists of plant and animal species observed or expected to occur will be compiled. Special status species (e.g., endangered, threatened) observed or expected to occur will be identified. Aquatic habitats, including riparian and wetland areas, will be surveyed to identify species that are potentially at risk from waterborne contaminants.

Potential exposure pathways for ecological receptors will be evaluated by considering contaminant types and sources, affected media, migration pathways, contaminant fate and transport, and ecosystem components identified as potential receptors. Potential exposure pathways include potentially affected soil, sediment, air, surface water, and groundwater that may discharge to surface-water bodies.

The OU 5 ERA is included in Appendix F.

## 5.2 Feasibility Study Tasks

The FS will consist of the following three tasks:

- Developing and screening remedial alternatives
- Performing treatability testing
- Analyzing alternatives

The following sections describe each of the FS tasks.

### 5.2.1 Developing and Screening Remedial Alternatives

The components of developing and screening remedial alternatives are 1) identifying remedial action objectives, 2) identifying general response actions, 3) identifying and screening remedial technologies, and 4) developing remedial alternatives. These components are summarized in the following sections.

#### 5.2.1.1 Identifying Remedial Action Objectives

Remedial action objectives include the following:

- Protecting human health and the environment against contact with contaminants in air, soil, or water.
- Reduce soil contaminant concentrations to levels that meet ARARs, and reduce the potential for migration of contaminants.
- Reduce groundwater contaminant concentrations to levels that meet ARARs and reduce the potential for migration of contaminants.

Remedial action objectives will be based on the recommendations of the RAs and the chemical- and location-specific ARARs.

#### 5.2.1.2 Identifying General Response Actions

General response actions may include in situ and ex situ treatment, containment, institutional actions, and no action.

#### 5.2.1.3 Identifying and Screening Remedial Technologies

Based on the results of field investigations conducted during the RI and previous investigations, technologies capable of meeting remedial action objectives will be identified. The technologies established for each general response action will be screened.

The selection criteria for applicable remedial technologies include the following:

- **Effectiveness** - Addresses the potential effectiveness of meeting remedial action goals, and considers whether the technology is proven and reliable for remediating the identified contaminants of concern. In addition, considers sensitivity of the technology to likely variables such as volumetric changes or soil properties, and potential impacts to human health and the environment during the construction and implementation phase.

- **Implementability** - Addresses the technical and administrative feasibility of implementing each technology. Implementability is an initial screen of remedial technology types and process options to eliminate those that are technically inferior. Processes requiring prohibitively extensive permitting from government agencies may also be eliminated.
- **Cost** - Considers the cost of implementing and operating each remedial technology. Cost will only be considered a major factor when choosing between technologies with equivalent effectiveness and implementability.

#### 5.2.1.4 Developing of Remedial Alternatives

A remedial alternative may address subsurface soil and groundwater as a single system, or may address each medium separately depending on site and contaminant characteristics. Three to five alternatives may be developed for each medium. These alternatives may include containment and treatment alternatives, or the no action alternative.

### 5.2.2 Treatability Testing

Treatability testing will be conducted on soil and groundwater samples representing each type of contamination present at the OU 5 source areas. The treatability tests are intended to provide design and operational information for evaluating the technical feasibility and cost-effectiveness of remedial technologies. The following remedial technologies were identified:

**West and East QFS Areas**

- Natural attenuation
- Site capping
- Soil excavation and landfilling
- Thermal desorption
- Bioremediation
- In situ vapor extraction/bioventing
- Groundwater pumping and treatment
- In situ air sparging and SVE
- Free-product recovery

**OB/OD Area**

- Natural attenuation
- Site capping
- Soil excavation and landfilling
- Soil excavation and soil washing
- Soil solidification/stabilization

Treatability testing to evaluate these technologies will include

- Laboratory testing of petroleum hydrocarbon-contaminated soil from each source area to evaluate existing microbial populations and soil chemistry characteristics that could influence the rate of petroleum hydrocarbon biodegradation. Analyses will include TOC, nitrate and nitrite-nitrogen, ammonia-nitrogen, ortho-phosphate phosphorus, pH, and specific heterotrophic degrader bacterial populations.
- In situ pilot-scale microbial respiration testing at the West and East QFS areas. The testing will be used to measure oxygen utilization and carbon dioxide production rates to assess the capacity for airflow in site soil, and to assess the applicability of the bioventing technology for site remediation.
- Bench-scale thermal desorption testing of contaminated soil from the West and East QFS areas to evaluate the volatilization rates of organic contaminants and chemical characteristics of the treated material.
- Laboratory bench-scale soil washing testing of contaminated soil from the OB/OD area to evaluate the effectiveness of desorbing metals from the soil matrix and reducing levels of metal contamination.
- Onsite testing of free-product recovery methods from selected groundwater wells at the West and East QFS areas.
- Pilot-scale air sparging and SVE testing at the West and East QFS areas to evaluate treatment effectiveness under representative field conditions.

- Bench-scale metals precipitation testing of groundwater samples from the West and East QFS areas to evaluate pretreatment requirements for bioremediation.

The treatment processes to be evaluated were selected based on information presented in this MP. The scope of the tests may change based on information gathered during the RI. Bench-scale or pilot-scale tests that may be conducted are presented in Table 5-3.

The results of ongoing treatability studies testing the effectiveness of air sparging/SVE at Buildings 1168, 1060, and the PX Gas Station will be considered when developing the treatability testing program for the OU 5 source areas.

The treatability testing program will generally consist of field sampling and testing, laboratory testing, data analyses, and reporting. Representative soil samples will also be collected from each of the source areas for the laboratory bench-scale testing. The samples will be collected using hollow-stem auger and split-spoon sampling methods, and will be composited in 5-gallon containers. The containers will be preserved with ice and shipped via overnight delivery to the respective testing laboratories. Onsite testing will be pilot-scale testing.

Waste or residue generated during the treatability testing program will be characterized and disposed of. Liquid waste will be stored in 5- or 55-gallon Department of Transportation (DOT) containers, and solids will be stored in covered, 1-gallon DOT containers. On completion of the treatability testing, the liquid and soil wastes will be returned to Fort Wainwright and treated with the other RI IDW as described in Appendix A, Section 5.11.

Where possible, analytical support of the treatability testing program will be supplied by the OU 5 RI project laboratory using EPA-approved methods. The project laboratory will analyze pretreatment and posttreatment-process samples to evaluate the effectiveness of each treatability test. Pretreatment and posttreatment soil and groundwater samples from each source area will be analyzed using the methods specified in Section 3.0 of the FSP. Process analytical samples used to assess and track system operation during the treatability tests will be analyzed by the testing laboratory/vendor or a subcontractor laboratory.

Target analytes include chemicals present across the source area and chemicals targeted for treatment by the specific treatment technology. Where appropriate, indicator chemicals will be selected to reduce the analytical suite and corresponding cost.

The results of the treatability tests will be tabulated and presented graphically where applicable, then evaluated based on the removal efficiency of chemicals. Data analysis and interpretation will be consistent with the requirements presented in the EPA's *Guidance for Conducting Remedial Investigations and Feasibility Studies Under CERCLA* (1988a) and in EPA's *Guide for Conducting Treatability Studies under CERCLA* (EPA, 1989c).

#### 5.2.2.1 Thermal Desorption Testing

In low temperature thermal desorption (LTTD), wastes are heated from 200° to 600°F (93° to 315°C) to volatilize water and organic contaminants. Target contaminant groups for LTTD systems are halogenated and nonhalogenated VOCs (including PCBs) and fuel.

In high temperature thermal desorption (HTTD), wastes are heated to 600° to 1,000°F (315° to 538°C) to volatilize water and organic contaminants. The target contaminant groups for HTTD systems are halogenated and nonhalogenated SVOCs and pesticides.

LTTD and HTTD systems are physical separation processes and are not designed to destroy organics. The bed temperatures and residence times of these systems will volatilize selected contaminants, but typically not oxidize them. The systems are designed to reduce volumes of contaminants and, therefore, are most often used in a treatment train in combination with incineration, solidification/stabilization, or

**Table 5-3. Treatability Testing**

| Treatability Test | Type of Test | Source Area and Media Tested | Technology Type |
|---|---|---|---|
| Biological | Laboratory Bench Scale | West QFS Soil<br>East QFS Soil | Aerobic Biodegradation |
| In Situ Respiration and Soil-Gas Permeability | Onsite | West QFS Soil<br>East QFS Soil | Aerobic Biodegradation |
| Thermal Desorption | Laboratory Bench Scale | West QFS Soil<br>East QFS Soil | Organics Removal |
| Soil Washing | Laboratory Bench Scale | OB/OD Soil | Metals Removal |
| Free-Product Removal | Onsite | West QFS Groundwater<br>East QFS Groundwater | Organics Removal |
| Air Sparging/Soil Vapor Extraction | Onsite | West QFS Soil and Groundwater<br>East QFS Soil and Groundwater | Organics Removal and aerobic biodegradation |
| Metals Precipitation | Laboratory Bench Scale | West QFS Groundwater<br>East QFS Groundwater | Metals Removal |

OB/OD Open Burning/Open Detonation
QFS Former Quartermaster's Fueling System

dechlorination depend on site-specific conditions. As ex situ remedies, excavation associated with LTTD and HTTD systems poses a potential health and safety risk to site workers through skin contact and air emissions. Personal protective equipment, at a level appropriate for contaminants involved, is normally required during excavation operations.

### Test Procedure

Feedstock soil previously screened to remove rock cobbles is deposited in a feed hopper by a small front-end loader via a horizontal conveyor belt. The belt discharges the material into a clay lumpbreaker, which in turn discharges the fragmented soil onto an inclined conveyor for delivery to the extraction chamber. During the movement of the soil up the conveyor belt, an indicating scale provides information on the mass of soil processed.

Soil is discharged from the inclined conveyor to a small hopper shaped to direct the material to rotary paddle airlock valves. On passing through the airlock, the soil drops into the extraction chamber. Screw augers move the material through heat treating zones.

The extraction chamber remains physically separated from the combustion system. The firebox derives its heat by electrical heating coils or gas combustion in a series of burners along the length of the extraction chamber. Heat is transferred from the coils or combustion firebox to the soil via conduction through a steel plate. Moisture and organic compounds become vaporized. A draft inducer maintains a slight vacuum on the firebox heating coils or combustion chamber. The draft inducer utilizes an ambient air blower and eductor situated downstream of the stack sampling ports to provide the vacuum.

The extraction chamber screw augers direct the product soil to a discharge auger, where processed soil exits through an airlock valve, which in turn directs the soil to a pug mill. Water is sprayed into the pug mill to cool the soil and prevent fugitive dust emissions. Particulates originating in the rewetting process are removed in a small scrubber. The remaining vapor stream is further treated in the condensing system.

The cooled, wetted product is discharged to a belt take-away conveyor and collected in a pile for eventual removal by a front-end loader.

Water vapor and gaseous organic materials originating in the extraction or separation chamber are subjected to three sequential treatment stages. First, the gas stream is cooled via direct contact water sprays in a quench chamber. Next, the gas stream is cooled by a fan cooler to a few degrees above ambient temperature. Lastly, the relatively dry gas (1- to 5-percent moisture) of noncondensable gas is polished in a mist eliminator (for fine aerosol removal) and a carbon adsorption bed. A positive displacement-induced draft fan moves gaseous products through the system from the extraction chamber to the condensing components. The discharge from the carbon adsorption bed, consisting of noncondensable gases including traces of nonhalogenated, light, and straight-chain hydrocarbons such as methane and ethane, is directed to the combustion air inlet of the first propane fuel gas heater of the thermal unit firebox.

The system cooling water is routed through a sludge settling chamber and a three-phase oil/water/solids separator. Hydrocarbon liquids and sludge are drawn off for analyses, storage, and possible recycling. The temperature of remaining water is decreased in a fan cooler before being recirculated to the quench chamber.

### Data Analyses and Interpretation

Data analyses will include evaluating laboratory analyses results to qualitatively estimate the volumes and types of residuals that may be generated, to evaluate the fate of organic compounds in the soil, and to identify thermal desorption process options potentially applicable to meet preliminary remedial goals. The analysis will include comparing pretreatment and posttreatment data to calculate removal efficiencies for contaminants of concern.

The mass of VOCs and SVOCs that vaporize during the thermal desorption process will be calculated to assess the need for additional treatment train technologies to mitigate offgases. Moisture content and British thermal unit (Btu) content will indicate energy required to thermally desorb contaminants of interest.

#### 5.2.2.2 Bench-Scale Biological Testing

In situ bioventing is considered a feasible technology for treating Fort Wainwright source area soil. In situ bioventing entails inducing air flow through the soil, and supplementing the oxygen supply to indigenous microorganisms and to enhance degradation. A bench-scale treatability study will be conducted to evaluate the feasibility of this process for West and East QFS area soil.

A biodegradation treatability study generally consists of two phases. During phase I, biotreatment parameters are assessed. During phase II, key site-specific factors critical to optimizing the biodegradation process are manipulated to predict the success of biodegradation under actual field conditions.

A phase I treatability study is proposed to evaluate basic biotreatment parameters for in situ bioremediation. Soil samples will be tested in the laboratory to assess biotreatment parameters using a physical soil characteristics evaluation, a chemical and microbial evaluation, and a nutrient stimulation evaluation. A limited-scope phase II in situ respiration test is also proposed to evaluate bioventing.

Bench-scale biological test objectives include

- Assessing the presence and number of indigenous microorganisms capable of degrading petroleum hydrocarbons;
- Evaluating chemical and physical factors that could limit the rate or extent of biological degradation;
- Obtaining a degradation rate for in situ bioventing and extrapolating to evaluate time to meet cleanup goals.

**Physical, Chemical, and Microbial Soil Characteristics Evaluation Procedure**

On receipt of bulk soil samples at the testing laboratory, one soil sample from each source area will be submitted to the RI project laboratory under chain-of-custody for analysis of COCs and the following additional parameters:

- Particle-size distribution
- Moisture content
- Soil density
- Ammonia-nitrogen
- Nitrate-nitrogen
- Phosphate as ortho-phosphate
- Sulfate
- Cation exchange capacity
- pH
- Iron
- Manganese
- Potassium
- Magnesium
- Calcium
- Sodium

Total heterotrophic microbial populations in source area soil will be measured by placing the appropriate washing and dilution of the solid sample on plate count agar (PCA) and incubating at 25°C for 72 hours. The evaluation will follow the standard plate count method.

The metabolic capability of microbial populations for total petroleum hydrocarbons (TPH) will be evaluated using a most probable number (MPN) technique to enumerate hydrocarbon utilizers in environmental soil samples. Tenfold dilution of the original sample will be inoculated into a series of tubes (five tubes/dilution) containing a basal medium and 10 microliters of the appropriate substrate (TPH). The basal medium is a liquid salts solution that provides necessary inorganic nutrients, but no organic carbon for the growth of microorganisms. The tubes will be incubated under aerobic conditions for 2 weeks at 25°C. The hydrocarbon-utilizing microbial population will be estimated by recording positive tubes (visible growth) and referencing an MPN numerical table.

### Nutrient Stimulation Evaluation Procedures

Two different nutrient formulations will be evaluated to assess which stimulates the greatest degree of TPH degradation. For each sample, approximately 1 kilogram of soil supplemented with 50 milliliters of nutrient solution will be incubated in an open tray at a constant temperature. One sample will be prepared for each nutrient formulation tested, as well as for a blank control. A duplicate sample will be withdrawn from each set as initial samples (baseline at time = 0) and will be analyzed by the RI project laboratory for TPH. The soil in each pan will be mechanically aerated once per week. Duplicate samples from each test group will be withdrawn at the following time intervals and analyzed for TPH: 7, 14, and 21 days. The final sample from each test group (at 28 days) will be analyzed for TPH and site-specific contaminants of concern to evaluate degree of degradation.

Soil samples will be analyzed by the analytical methods and procedures specified in Section 3 of the FSP (Appendix A).

### Data Analysis and Interpretation

The microbial evaluation consists of two procedures for the preliminary screening of Fort Wainwright soil. The first procedure (total plate count) enumerates the total heterotrophic microbial population for a given sample and provides information relating to the viability of the general microbial population in the soil. This technique cannot be used to evaluate the specific metabolic activity of the microbial population within a given sample. The second procedure (MPN) is based on the ability to discern the metabolic activity of a particular microbial population within the general microbial population. The microbial population can be identified by its ability to utilize a particular carbon substrate (e.g., TPH) as a primary or secondary source of carbon and energy. MPN will be used to evaluate a distinct microbial population within a general population determined in the total plate count procedure.

The inorganic chemical profile evaluation will assist in selecting nutrient formulations to analyze in the nutrient stimulation evaluation. The results of the nutrient stimulation evaluation will qualitatively indicate the overall degradation of TPH achievable, and the types of nutrients required. Data from the nutrient stimulation evaluation will be plotted as TPH concentration versus time to quantitatively show degradation rates. The plot of concentration versus time may be extrapolated to estimate the time required to achieve preliminary remedial goals.

### 5.2.2.3 Soil Washing

Contaminants sorbed onto soil particles are separated from soil in an aqueous-based system. The wash water may be augmented with a basic leaching agent, surfactant, pH adjustment, or chelating agent to help remove organics or heavy metals.

The target contaminant groups for soil washing are halogenated and nonhalogenated SVOCs, fuel hydrocarbons, and metals at the OB/OD area. Soil washing offers the potential to recover metals and can clean a range of organic and inorganic contaminants from coarse-grained soil.

Soil washing is commonly used in conjunction with other treatment technologies such as bioremediation, incineration, solidification/stabilization, and landfilling.

### Test Procedure

Contaminated soil is fed into a hopper and passed through a series of screens to eliminate oversize materials. Soil passing less than 2 inches is formed into a wet slurry and fed into a hydrocyclone where fine-grained material is separated from coarse-grained material, as determined during the treatability study. In the hydrocyclone, which is open to atmospheric pressure, centrifugal force causes the coarse-grained sand to be spun out at the bottom and the fine-grained material and water to be ejected from

the top of the unit. The hydrocyclones can be field-adjusted to meet objectives of the smallest possible sludge cake requiring offsite disposal.

The underflow from hydrocyclones contains coarse-grained materials, which are treated by a flotation technique whereby contaminants are concentrated in the froth and the sands are dewatered and returned to the site as clean backfill. This treatment is accomplished with air flotation treatment units. The surfactant must reduce the surface tension binding contaminants to the sand, allowing contaminants to float into a froth that is removed from the surface of the tank. The sand is dewatered and returned to the site as clean backfill.

The fines are forwarded to a sedimentation area consisting of banked lamella clarifiers, which are tall cylindrical tanks containing a series of baffles and chambers where liquids and solids from the hydrocyclone overflow are separated. The fines are dosed with a polymer selected during treatability testing before being placed in the clarifiers. In the tanks, solids settle to the bottom and liquids float to the top. The thickened solids are pumped out the bottom to a pressurized belt filter press. The solid influent is converted to a 45- to 55-percent dry solid filter cake. This cake contains the target contaminants and must be managed by regulated disposal at a permitted offsite facility.

The key to a successful soil washing project is the particle size of contaminated soil. As a rule, the smaller the particle size, the more difficult and expensive soil washing becomes.

#### Data Analysis

Data interpretation for soil washing usually involves evaluating data for a large number of metals. Data for selected metals will be presented in graphical form to show the effect of surfactants, cut points, and pH on metals removal efficiency.

### 5.2.2.4 Free-Product Recovery

Free product, principally petroleum hydrocarbons, has been detected at numerous groundwater well sites in the West and East QFS areas. The known geology of these source areas indicates that hydraulic control of any site in this vicinity would not be feasible because of the aquifer hydraulic conductivity. Testing pump systems or hydraulic containment systems to generate water table depressions is not feasible because of the large quantity of water generated. The hydraulic conductivity is estimated to range from 30 to 300 feet per day. Given this range, the pumping rates required to create a suitable water table depression for free-product recovery are relatively large. Because the radius of influence of a pumping well would be small, numerous wells may be required to effectively cover a large area. The Chena River may act as a recharge source, further reducing the drawdown for a given pumping rate. Depressing the water table may "smear" the soil in the cone of depression, allowing a smaller percentage of product to be recovered. Typical values for product removal may reach as high as 30 percent of the product present. Several passive and active methods and technologies are proposed for study.

#### Test Procedure

A single type of passive free-product recovery is proposed for the treatability study. This system employs an active buoy assembly that utilizes an oleophilic surface to remove free product as a sheen. The buoy rides up and down on the water level in the well and passively collects free product. The assembly may be purchased off-the-shelf and installed in a groundwater well in minutes. In this system, recovery canisters can be used to increase the capacity of the system.

The following active free-product recovery systems are proposed for the treatability study: an in-well probe scavenger, a surface-mounted shallow well probe scavenger, and a down-well small-diameter filter scavenger system. An in-

well probe scavenger is an automatic oil/water separator and hydrocarbon-recovery system that uses a single submersible, self-priming, multi-stage pump. A probe distinguishes between hydrocarbon contaminants and water, allowing retrieval of water-free oil. The pump automatically transfers recovered contaminants to a surface recovery tank. The probe scavenger can be used in an 8-inch diameter well. The suction head assembly floats and models are available for shallow and deep wells.

A surface-mounted, shallow well probe scavenger consists of a surface-mounted control panel, a recovery tank, and a scavenger product pump and a down-well control probe. This unit is designed for groundwater depths to 20 feet and can be used in wells with 2-inch diameters. The system consists of a portable product pump, which is controlled by a probe that senses both the product and water tables. Depending on the product to be recovered, this system is limited to 15 feet to 26 feet of lift.

The down-well small-diameter filter scavenger system separates and retrieves light oil products and other hydrocarbons from groundwater. This system uses an oil/water intake separator cartridge that discriminates between hydrocarbons and water to allow only the hydrocarbons to pass through an oleophilic/hydrophobic screen and fall by gravity through a flexible hose to a stainless steel reservoir. The oil-water separator cartridge is automatically positioned so that the bottom of the oil layer contacts the surface of the filter. As the recovered hydrocarbons collect in the reservoir, the unit will turn on and the recovered water-free hydrocarbons are then pumped to the surface and into a recovery tank. This system incorporates an intake cartridge that floats at the water/hydrocarbon interface and cleans fluctuating water surfaces to a sheen. The system can be used in wells as small as 4 inches in diameter to 90 feet deep, and can reduce free-product thickness layers to 1/10 inch or less.

**Data Analysis**

Free-product recovery data will be collected according to the volume of hydrocarbon material from each well versus time. The following data will be collected to evaluate the efficacy of the different technologies:

- The initial thickness of the free-product layer in the well;
- The rate of hydrocarbon removal from the well in volume per unit time;
- The thickness of any remaining free-product layer at the point at which the rate of product removal becomes zero;
- The operating cost of the free-product recovery system per volume of hydrocarbons removed from the well, including cartridge and battery replacement.

These data will be compared for each free-recovery system tested. The primary criterion for evaluation will be the remaining free-product thickness at the point at which the rate of product removal becomes zero. Operating parameters to be used for the best and final run will be based on interpretation of these data.

#### 5.2.2.5 Metals Precipitation Testing

Aeration of groundwater is a method to oxidize dissolved iron (Fe) and manganese (Mn) species. Typically, iron and manganese are present in reduced forms in groundwater (FeII and MnII). Oxidation of the reduced species produces Fe(III) and Mn(IV), and causes the iron and manganese (and other metals present in the groundwater) to precipitate out of solution as hydroxides. Chemical hydroxide precipitation can also be caused using chemicals, (caustic soda [NaOH] or hydrated lime [$Ca(OH)_2$]). Metals precipitation testing will be achieved by using aeration and chemical precipitation methods.

Metals precipitation is generally followed by a flocculation and settling step to remove metal hydroxides from the water column. The metals

precipitation tests will also evaluate metal hydroxide flocculation and settling rates, and the characteristics of the settled sludge.

The objectives of this test program are 1) to assess the effectiveness of aeration and chemical precipitation to reduce iron, manganese, and other metals concentrations in groundwater; 2) to evaluate optimum operating parameters; and 3) to gain preliminary design data for a full-scale design.

Further objectives of this program are to measure the following:

- Aeration rates
- Chemical consumption
- Settling rate of the precipitates
- Solids produced at various conditions

The data from these tests will be used to

- Evaluate the potential for metals precipitation to interfere with other groundwater treatment processes,
- Assess the effectiveness of aeration and chemical precipitation to meet discharge criteria,
- Obtain preliminary cost data to establish the economics of treatment.

Conventional laboratory equipment, such as pH meters, stirrers, and filters, will be used for this test program.

### Test Procedures

Samples will be tested with and without pH control during aeration. Air will be bubbled through a 1.0-liter aliquot of groundwater for each aeration test run. Five test runs will be performed to evaluate metals precipitation using aeration alone and aeration in combination with chemical precipitation. One test will be run without using pH control; and one test each (four total) will be run while maintaining the solution pH at 8, 9, 10, and 11. Samples will be analyzed before, during, and after the treatability test to evaluate treatment effectiveness. Pretreatment samples, consisting of the feed test liquid, will be obtained from bulk groundwater samples immediately before treatability testing. The pretreatment samples will be analyzed by the testing laboratory for the following process parameters:

- Alkalinity
- Total dissolved solids
- Total suspended solids
- pH
- Total and dissolved metals

In addition, splits of the pretreatment samples will be submitted under chain-of-custody to the RI project laboratory and analyzed for the respective source area contaminants of concern.

The aliquots will be well mixed using a magnetic stirrer, and the pH will be adjusted (as required) using caustic soda or hydrated lime. Air will be bubbled through the sample for approximately 2 hours. During aeration, acid or caustic soda will be added to maintain the specified pH.

The chemical precipitation tests will be conducted using the same alkali (either caustic soda or hydrated lime) as the aeration test. A 1.0-liter aliquot of groundwater will be used for each chemical precipitation test run. Four tests will be run to evaluate metals precipitation at solution pHs of 8, 9, 10, and 11.

The aliquots will be well mixed with a magnetic stirrer, and allowed to react for approximately 30 minutes. The well-mixed solution will be transferred to a 1-liter graduated cylinder for estimation of the settling rate. The settling rate will be documented over a 2-hour period, and the sample will then be reslurried and 2 mg/L of a polymer coagulant will be added. Polymer coagulant is commonly used in municipal and industrial water treatment industries and is effective as a flocculent for metal hydroxides. A settling rate will then be determined for the precipitate plus the flocculent. The precipitate will be allowed to settle for 1 to 2 hours, and approximately 800 milliliters of solution will be carefully decanted (supernatant) and analyzed by the testing laboratory for the process parameters listed above.

The remaining solution and precipitate will be filtered through a 15.0-centimeter-diameter Whatman No. 40 paper. The filtrate will then be analyzed by the testing laboratory for process parameters, with the exception of total metals.

Posttreatment samples (supernatant and filtrate) from the treatability run producing the best metals removal will be submitted under chain-of-custody to the RI project laboratory and analyzed for the respective source area contaminants of concern.

#### 5.2.2.6 Pilot-Scale Air Sparging System Testing

Air sparging requires injecting air below the water table to enhance both the physical and biological removal of organic constituents in groundwater. Air sparging is typically used in conjunction with soil-vapor extraction (SVE) to control the migration of vapors, and to address remediation of the unsaturated subsurface soil above the water table. When air sparging is used on groundwater containing a mixture of VOCs and SVOCs, the primary removal mechanism for VOCs is physical volatilization (stripping), and for SVOCs or nonvolatile contaminants is biodegradation. Air sparging also enhances the dissolution of organic constituents adsorbed on soil particles, speeding cleanup of the saturated soil.

Air sparging technology is a potentially effective method for VOCs and petroleum hydrocarbon constituents at the West and East QFS areas, and may apply to other source areas at Fort Wainwright. The potential advantages of air sparging are as follows:

- When coupled with an SVE system, air sparging can address remediation of both groundwater and soil at the source area;
- Air sparging uses readily available materials and equipment that are relatively inexpensive to install and operate;
- This technology produces little or no residual waste to handle, and few discharges that require permits or monitoring.

The potential disadvantages of air sparging are associated with the relatively new nature of this technology. Although air sparging has been implemented at numerous sites, the complex interactions of the physical, chemical, and biological processes involved are not completely understood. Therefore, design considerations are poorly defined for

- $O_2$ transfer rates and dissolved oxygen (DO) dispersion patterns,
- Effective treatment radii,
- Impacts of chemical precipitation and biomass buildup on aquifer permeability,
- Optimal operating conditions.

A pilot-scale air sparging system test is proposed for the West and East QFS areas to be evaluated for possible full-scale implementation at these and other similar source areas. The system will consist of an air injection system, a vapor extraction system (VES), groundwater and soil-vapor monitoring, and extracted vapor (offgas) treatment. The pilot-scale air sparging system test will be monitored to evaluate

- Treatment effectiveness;
- Optimum operating parameters;
- Operating costs;
- The degree of remediation achievable;
- Impacts to local conditions (e.g., air emissions, groundwater quality, soil permeability, etc.).

Pilot-scale air sparging system test design and implementation detail will be presented in a separate work plan to be developed before the OU 5 RI begins.

### 5.2.3 Detailed Analysis of Alternatives

A detailed analysis of the developed alternatives will be conducted to provide relevant information needed for remedial alternatives selection. A specific description of each remedial alternative summarizing the details necessary to implement and operate each alternative will be provided.

The descriptions will detail additional activities required, specifics regarding size constraints, time for remediation, rates of flow or treatment, required permits, sensitivity of the alternative to changes in variables, and identification of all action-specific ARARs.

Each alternative will then be assessed against the following nine evaluation criteria:

- Overall protection of human health and the environment;
- Compliance with ARARs;
- Long-term effectiveness and permanence;
- Reduction of toxicity, mobility, or volume through treatment;
- Short-term effectiveness;
- Implementability;
- Cost;
- State acceptance;
- Community acceptance.

The following subsections present detailed descriptions of these nine evaluation criteria.

#### 5.2.3.1 Overall Protection of Human Health and the Environment

This criterion will assess whether each alternative will provide adequate protection of human health and the environment. The satisfaction of this criterion is based on the assessments conducted under other evaluation criteria including long-term effectiveness and permanence; short-term effectiveness; compliance with ARARs; and reduction of toxicity, mobility, or volume through treatment. Evaluation of the overall protectiveness of an alternative will assess how site risks are eliminated, reduced, or managed through treatment, engineering, or institutional controls and whether an alternative presents any unacceptable impacts.

#### 5.2.3.2 Compliance with ARARs

This criterion will be used to evaluate whether each alternative will meet all federal and state ARARs that have been identified in previous stages of the RI/FS process. A detailed analysis will summarize the ARARs and describe how they are satisfied by the alternative.

#### 5.2.3.3 Long-Term Effectiveness and Permanence

This criterion will evaluate a remedial alternative in terms of risk remaining at the facility after response objectives have been satisfied, and will focus on the extent and effectiveness of controls that may be required to manage the risk posed by treatment residuals and/or untreated waste. The long-term effectiveness and permanence evaluation is particularly important in considering containment, institutional controls, and disposal alternatives.

#### 5.2.3.4 Reduction of Toxicity, Mobility, or Volume Through Treatment

This criterion will evaluate the ability of a remedial alternative to permanently and significantly reduce the principal risks at a site through destruction of contaminants, irreversible reduction in mobility, or reduction of the total mass of contaminated media.

#### 5.2.3.5 Short-Term Effectiveness

This criterion will evaluate the alternative effects to human health and the environment during the construction and implementation phase until remedial response objectives are met.

#### 5.2.3.6 Implementability

This criterion will evaluate the technical and administrative feasibility of implementing an alternative, and the availability of various services and materials required during implementation.

#### 5.2.3.7 Cost

A detailed cost analysis of selected remedial alternatives will be developed according to the following:

- Estimation of capital, operations and maintenance, and institutional costs;
- Present worth analysis;

- Sensitivity analysis.

#### 5.2.3.8 State Acceptance

This criterion will evaluate the technical administrative issues and concerns that the State of Alaska may have regarding each alternative.

#### 5.2.3.9 Community Acceptance

This criterion will evaluate the issues and concerns the public may have regarding each alternative.

### 5.3 Reporting

A schedule for document submittals, as defined in the FFA, is described in the next section. The reporting requirements for OU 5 include the following key documents:

- An MP for data collection that specifies work plan requirements for field investigations; sampling analyses; QA/QC; and data evaluation for the purposes of developing a detailed RI, RA, and FS;
- A site-specific CRP that addresses the right-to-know aspects of OU 5 and will serve as a component to an area-wide CRP;
- An ARARs review that considers state and federal regulations relative to the contaminants identified in environmental media at OU 5;
- An RI report that summarizes data collected, evaluates the nature and extent of contamination, and provides a baseline HRA and ERA.
- An FS report that reviews remedial action alternatives and specifically details viable options to attain cleanup goals, cost-effectiveness, and implementability.

Data presented in the RI report will include reference maps that incorporate the most updated information on existing facilities, topography, and physical features observed in the field. In addition to the documents listed above, the RI/FS process will require routine reporting on review meetings conducted during the process; documentation of the comment resolution on draft document submittals; and monthly progress reports summarizing activities performed, and planned activities for the next reporting period.

# 6.0 SCHEDULE

The OU 5 RI/FS is the last CERCLA investigation scheduled for Fort Wainwright. The overall RI/FS process is guided by the schedule set in the FFA that includes milestones for completing field activities and sampling, and submitting draft and final documents. The milestones defined by the FFA are listed below:

| OU 5 RI/FS Primary Documents | |
|---|---|
| Draft RI/FS Management Plan | January 15, 1995 |
| RI/FS Report | October 1, 1996 |
| Record of Decision | May 15, 1997 |
| Remedial Action Plan | Not defined |
| Remedial Design | Not defined |

| OU 5 RI/FS Secondary Documents | |
|---|---|
| Health and Safety Plan | January 15, 1995 |
| Initial Identification of ARARs and TBCs | * |
| RI Report | July 1, 1996 |
| RI/FS Proposed Plan | January 15, 1997 |

| | |
|---|---|
| * | To be provided before submitting the draft final RI/FS management plan. |
| ARARs | Applicable and relevant or appropriate requirements. |
| RI/FS | Remedial investigation/ feasibility study |
| TBCs | To be considered |

Key factors affecting the schedule for completing the RI/FS report include the following:

- Delivery of laboratory chemical data reports. Laboratory data processed on a standard turnaround schedule should be available within 30 days of the last sample shipment.
- Delivery of the USACE's NPD laboratory's CQAR. The CQAR should be completed within 60 days of the last sample shipment.
- Delivery of data reports summarizing studies by other agencies including the CRREL, the USGS, and the UAF.

Project milestones will be based on the USACE's NTP for field activities. Assuming the NTP is issued on July 15, 1995, and sampling is completed by September 15, 1995, laboratory data reports and reports by other agencies should be delivered around October 15, 1995, and the CQAR should be completed by November 15, 1995.

On approval of the management plan, a field-specific schedule identifying all field investigation activities and field teams will be developed. The schedule will address sample collection and anticipate sample deliveries to the designated laboratory(s), as well as data validation.

Postwide human health and ecological risk assessments will be completed concurrently with the OU 5 RI/FS. Milestones for completing postwide documents are listed below:

| Postwide Documents | |
|---|---|
| Draft Postwide Risk Assessment Approach Document | January 15, 1995 |
| Draft Postwide Risk Assessment Report | July 1, 1996 |
| Final Postwide Risk Assessment Report | October 1, 1996 |

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# Appendix A FSP

# Operable Unit 5
# Field Sampling Plan
# Fort Wainwright, Alaska

Prepared for

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### ATTACHMENT


Sample Forms


### DISTRIBUTION

# 1.0 INTRODUCTION

This Field Sampling Plan (FSP) has been developed for Operable Unit 5 (OU 5) at Fort Wainwright, Alaska, at the direction of the U.S. Army 6th Infantry Division (Light)/Directorate of Public Works (6th ID/DPW) and the U.S. Army Corps of Engineers (USACE), Alaska District. This FSP has been developed under USACE Delivery Order No. 0004 according to the terms of Indefinite Delivery Architect-Engineer Contract No. DACA85-94-D-0008.

In August 1990, Fort Wainwright was placed on the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) National Priorities List. As a result, subsequent environmental assessment and remediation activities at Fort Wainwright are being performed in compliance with CERCLA as amended by the Superfund Amendments and Reauthorization Act of 1986. Activities are also being performed in compliance with a Federal Facility Agreement (FFA) effected in March of 1992 between the U.S. Environmental Protection Agency (EPA), the U.S. Department of Defense, and the Alaska Department of Environmental Conservation (ADEC).

This FSP is part of the Remedial Investigation/ Feasibility Study (RI/FS) Management Plan (MP) for OU 5, and was prepared according to Office of Solid Waste and Emergency Response specifications for RI/FS field sampling plans (EPA, 1988). This FSP is based on the results of previous investigations, conceptual site models, identified data gaps, and data quality objectives (DQOs) identified for three areas of concern as presented in the MP.

The OU 5 portion of Fort Wainwright contains two general areas defined in the scope of work as the North Airfield groundwater plumes and the open burning/open detonation (OB/OD) source area. The area containing the North Airfield groundwater plumes is divided into two separate sites: the West Section, Former Quartermaster's Fueling System (west QFS) source area, and the East Section, Former Quartermaster's Fueling System (East QFS) source area. Each source area is shown on Figure A-1.

**West QFS Area** - The West QFS area is between the north runway and the Chena River, and between the railcar off-loading facility (ROLF) and Building 1595. The source area includes former Building 1599 and former fueling system components including approximately eight gasoline and diesel storage tanks, distribution and supply pipelines, fill stands, and dispensing equipment. Petroleum products and solvents in soil, groundwater, river sediment, and surface water are the primary contaminants of concern. Figure A-2 shows the approximate extents of groundwater contaminant plumes of free product, benzene, diesel-range organics (DRO), gasoline-range organics (GRO), and 1,2-dichloroethane (1,2-DCA) at the West QFS area. A detailed description of past practices and the findings of previous investigations at the West QFS area are included in the OU 5 RI/FS MP, Section 2.2.

**East QFS Area** - The East QFS area is located between the north runway and the Chena River, and between Building 1579 to the southwest and Building 1054 to the northeast. The source area includes Buildings 1060, 1565, 1053, 1054, former Building 1567, and various former fueling system components including approximately 16 gasoline and diesel storage tanks, distribution and supply pipelines, fill stands, and dispensing equipment. Petroleum products and solvents in soil and groundwater are the primary contaminants of concern. The approximate extents of groundwater contaminant plumes of free product, benzene, DRO, GRO, 1,1,1-trichloroethane (1,1,1-TCA), trichloroethene (TCE), and cis-1,2-dichloroethene (cis-1,2-DCE) at the East QFS area are shown on Figure A-2. A detailed description of past practices and the findings of previous investigations at the East QFS area are included in the OU 5 RI/FS MP, Section 2.3.

**OB/OD Area**. The OB/OD area is located south of the Fort Wainwright cantonment between the Tanana River and the flood control dike. The

area consists of a former open burning/explosives detonation site within the small arms impact area. The site reportedly was used for burning and detonating unexploded and dud ordnance, rocket motors, unused propellants, and other potentially hazardous materials. A detailed description of past practices and the findings of previous investigations at the OB/OD area are included in the OU 5 RI/FS MP, Section 2.4.

# 2.0 OBJECTIVES

## 2.1 Field Investigation Objectives

The OU 5 RI addresses the following three potential source areas at Fort Wainwright where contaminants may have been released into soil, surface water, sediment, and/or groundwater:

- West QFS area
- East QFS area
- OB/OD area

The following are objectives of the FSP:

- Assess the nature and the extent of surface and subsurface soil contamination;
- Estimate groundwater aquifer characteristics;
- Collect sufficient data to characterize groundwater/surface water (Chena River) interaction;
- Assess the nature and the extent of groundwater contamination;
- Assess the nature and the extent of sediment and surface-water contamination;
- Collect sufficient data to evaluate remedial action alternatives and to implement interim remedial actions or removals, as necessary;
- Collect sufficient data to assess human health and ecological risks.

## 2.2 Sampling Strategies

The media to be sampled during the OU 5 RI will include surface and subsurface soil, groundwater, surface water, sediment, tar, and petroleum product. Sample analytical results for surface soil collected during investigation activities will be used in a preliminary screening assessment of potential risks from inhalation of airborne particulates. Ambient air sampling will not be conducted during this investigation.

The sampling strategy for the field investigation of the West and the East QFS areas will include

- Collecting surface- and subsurface-soil samples in areas of known and suspected contamination;
- Evaluating physical, chemical, and biological properties of surface and subsurface soil;
- Installing groundwater monitoring wells/probes, and collecting groundwater samples from new and existing wells/probes to assess areas of contaminant plume migration;
- Evaluating hydraulic characteristics of the impacted aquifer(s);
- Collecting soil and groundwater samples for treatability studies;
- Collecting sediment and surface-water samples from the Chena River adjacent to the West and the East QFS areas;
- Evaluating physical, chemical, and biological properties of Chena River sediment near the West and the East QFS areas;
- Collecting background sediment and surface water from the Chena River at a location upriver of known sources of contamination.

The sampling strategy for the field investigation of the OB/OD area will include

- Collecting surface soil samples in areas of potential metals contamination;
- Evaluating physical and chemical properties of surface soil.

The sampling strategy for field investigating areas identified for potential interim remedial actions or removals will include

- Performing a geophysical survey of the Chena River bank in the area of visible tar drums to evaluate the extent of buried drums;
- Collecting samples of tar from drums to evaluate leaching potential;
- Evaluating the chemical properties of the tar;

- Performing a product thickness measurement survey to assess the extent of free product;
- Collecting samples of free product from three distinct plumes (two in the West QFS area and one in the East QFS area);
- Evaluating physical and chemical properties of free product,
- Installing product recovery wells in the free-product plumes.

Potential chemicals of concern (COCs) at the West and the East QFS areas are DRO, GRO, volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), and organic lead. Potential COCs at the OB/OD area are metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, vanadium).

Details concerning implementation of the sampling strategies for each of the source areas are presented in Section 3.0. In addition to investigation samples identified for the OU 5 source areas, sampling of investigation-derived waste (IDW) will be necessary to comply with regulatory treatment and disposal requirements. IDW sampling and analysis is addressed in Section 5.11.

# 3.0 SAMPLE LOCATION AND FREQUENCY

The following sections present descriptions of the source areas and the work to be accomplished.

## 3.1 West Section, Former Quartermaster's Fueling System Source Area

The West QFS area is between the north runway and the Chena River, and between the ROLF and Building 1595. The source area includes Building 1599 and former fueling system components including approximately eight aboveground and underground gasoline and diesel storage tanks, dispensing islands, loading stands, and associated valving and piping. Fuel was supplied to the system by pipeline from the Birch Hill terminal. The system was located, for the most part, between Front Street and Gaffney Road, northwest of Building 1599. Its function was to store and dispense fuel to military vehicles and aircraft. The fueling system no longer operates and nearly all components have been removed or demolished. A site plan of the West QFS area is shown on Figure A-3. A detailed description of past practices and the findings of previous investigations at the West QFS area are included in Section 2.2 of the OU 5 RI/FS MP.

The investigation at this site will focus on existing and potential contamination of soil, groundwater, surface water, and sediment resulting from past practices. Previous investigations indicated the presence of petroleum hydrocarbons in soil, groundwater, surface water, and sediments and of chlorinated solvents in groundwater and surface water. Although pesticides and dioxins have been detected in soil in the vicinity of former Building 1599, investigation of these chemicals is not included in the scope of work for OU 5. Investigation of pesticides and dioxins for Building 1599 is addressed in the OU 1 RI/FS MP.

The sampling program to be conducted at the West QFS area is detailed in the following sections. Sampling rationale, chemical analyses, analytical methods, and quantities of samples to be collected from surface and subsurface soil, groundwater, sediment, surface water, tar, and petroleum product at the West QFS area are summarized in Tables A-1 through A-7.

### 3.1.1 Surface Soil

Analytical results from surface-soil samples will be used to evaluate the potential presence of contaminants and to model ambient air dust concentrations for future risk assessment. Approximately 55 surface-soil samples will be collected from around the former fueling system components where historical information indicates surface releases have occurred (Figure A-4). Sample locations will be chosen using a systematic grid as described in *Methods for Evaluating the Attainment of Cleanup Standards, Volume 1: Soils and Solid Media*, (EPA, 1989a). The sampling grid will provide an 80-percent confidence level for detecting circular-shaped contaminated areas 25 feet or larger in diameter. Samples will also be collected from the surface interval of each soil boring as discussed in Section 6.2.

Surface-soil samples will be analyzed for GRO, DRO, VOCs, and SVOCs. Selected samples will be analyzed for total organic carbon (TOC), soil nutrients, and microbial plate counts. Selected samples will also be used to measure soil physical characteristics (particle size, moisture content, and specific gravity).

### 3.1.2 Subsurface Soil

As many as 30 borings will be placed at appropriate locations to laterally and vertically define areas of concern identified during surface-soil sampling, and to identify whether contaminated soil is an ongoing source of groundwater contamination. The number of borings is an estimate based on site investigations performed to date. Borings will be drilled to the depth where groundwater is encountered (approximately 15 feet below ground surface), or to a maximum depth of about 5 feet below groundwater.

Underground fuel distribution lines are potential fuel release sources; underground utilities may also serve as potential sources for contaminants. To evaluate the potential presence of contaminants along these lines, as many as 10 soil borings will be drilled in areas of suspected releases.

Samples will be collected from the borings at approximate depths of 0, 5, 10, 15, and 20 feet. Sample depth increments and frequency may be changed based on professional judgment and observed soil conditions. Samples will be analyzed for DRO, GRO, VOCs, and SVOCs. Selected samples (typically two per boring) will be analyzed for geotechnical parameters (grain size, moisture content, and specific gravity). Selected samples will also be analyzed for soil nutrients, TOC, and microbial plate counts.

Soil-gas permeability and in situ microbial respiration tests will be performed. Soil analyses, soil-gas permeability tests, and respiration tests will be used in the FS to evaluate remedial alternatives for the site.

### 3.1.3 Groundwater

Groundwater analytical results from monitoring wells and groundwater probes in the West QFS area indicated the presence of groundwater plumes of free product, DRO, GRO, benzene, and 1,2-DCA. The benzene and free-product plumes are relatively well defined south of the Chena River; however, the northward extent of the benzene plume is not known. The extents of the DRO, GRO, and 1,2-DCA plumes are not defined. The extent of organic lead in groundwater is unknown.

Based on the Fort Wainwright 1993 Groundwater Summary Report (EMCON, 1994), the regional groundwater flow direction is west to northwest. Groundwater flow characteristics adjacent to the Chena River are not fully understood; however, data obtained during ongoing studies by the CRREL and the USGS are expected to characterize hydrogeologic interaction between groundwater and the Chena River. Work plans for the CRREL and USGS studies are contained in the *Draft Compiled Work Plans for Groundwater Analysis Tasks at Fort Wainwright, Alaska* ($CH_2M$ Hill, 1995).

Groundwater samples will be collected from selected existing monitoring wells and probes. The samples will be analyzed for GRO, DRO, VOCs, SVOCs, and lead on a quick-turnaround basis to evaluate the current distribution of contaminants. The quick-turnaround analyses will provide data to evaluate whether existing wells and probes adequately define the extent of contaminant plumes, and/or to site additional groundwater sampling locations, if needed.

Groundwater probes will be used to investigate the lateral and vertical extents of DRO, GRO, VOCs, and SVOCs in groundwater north of the Chena River. Initially, 16 deep groundwater probes will be installed on a grid (200-foot spacing) beginning approximately at the north bank of the Chena River and extending about 600 feet to the north, as shown on Figure A-5. The deep probes will be used to investigate the vertical extent of contaminants in the unconfined aquifer. Samples will be collected from deep probes at 20, 30, 40, 50, 60, and 70 feet below ground surface. Groundwater analyses will be performed on a quick-turnaround basis to aid in placing additional probes and siting permanent monitoring wells.

Vegetation clearing may be necessary to facilitate equipment access for installing probes; however, clearing will not be performed within 100 feet of the Chena River north bank. Clearing activities will be coordinated with Ms. Jackie Rindgen DeCecco at the Fort Wainwright DPW. Probes within 100 feet of the north bank will be installed at locations that can be accessed without clearing.

Based on analytical results from the existing monitoring wells and probes, and on initial probes installed north of the Chena river, as many as 20 new shallow and 7 deep probes will be installed south of the Chena River, and as many as 15 deep probes will be installed north of the Chena River, to further evaluate the extent of groundwater contamination. Shallow probes will be installed to a depth of about 20 feet. Deep probes will be installed to depths between 30 and

70 feet. Samples from the additional probes will also be analyzed on a quick turnaround basis.

As many as 10 permanent groundwater monitoring wells will be installed at appropriate locations to confirm the presence of contaminants and to facilitate future monitoring. The actual numbers and depths of groundwater probes and monitoring wells will be adjusted during the field investigation after groundwater probe sampling results are considered. Criteria used to site the locations and depths of permanent groundwater wells will include chemical concentrations detected in initial probes, contaminant distribution, groundwater flow direction, and the location of potential receptors.

Aquifer characteristics will be estimated by performing slug tests in approximately three selected wells or groundwater probes in the West QFS area (two north and one south of the Chena River). Water-level measurements will be used to evaluate groundwater flow direction, gradient, and the effect of seasonal fluctuations on local groundwater flow patterns. Data from CRRELS groundwater flow probes and triangular studies will also be used to characterize water levels, flow directions, and gradients.

### 3.1.4 Surface Water and Sediment

The Chena River flows westward through the northern portion of the West QFS area. Fuel releases from the West QFS area into the Chena River were reported in 1971 and 1980 (Scribner, 1971a,b; *Daily News Miner*, 1981). Petroleum hydrocarbons were detected in sediment samples collected during 1994, and petroleum hydrocarbons and chlorinated solvents were detected in surface-water samples.

Drainage from several of the OUs at Fort Wainwright eventually enters the Chena River via groundwater or surface water. Polychlorinated biphenyls (PCBs), pesticides, and dioxins have been detected at OU 2 source areas (North Post site and DRMO salvage yard) and a CERCLA site (Arctic Surplus site) located upriver from OU 5.

Sediment and surface-water samples will be collected from along the riverbanks and from the river channel to assess the presence and distribution of contaminants.

Sediment samples will be collected approximately every 200 feet along the north and south banks of the Chena River (approximately 10 samples from each bank) (Figure A-6). The sample spacing will provide a statistically significant number of samples to characterize the Chena River banks along the West QFS area. These samples will be analyzed for DRO, GRO, VOCs, and SVOCs on a quick-turnaround basis. Samples will be used to assess the effects of previous releases and the potential migration of contaminants into the river from the West QFS area.

Based on the bank sediment sample results, three Chena River sampling transects will be established. Five samples (one near each bank and three from the channel bottom) will be collected from each transect and analyzed for DRO, GRO, VOC, SVOCs, PCBs/pesticides, organophosphorous pesticides, dioxins/furans, and metals on a normal turnaround basis. In addition, eight collocated surface-water samples (five shallow and three deep) will be collected from each transect and analyzed for the same parameters except dioxins/furans. The transect samples will be used to assess the potential migration of contaminants into the river from the East and West QFS areas and from other sources upriver. Figure A-6 shows the sediment and surface-water sampling locations at a typical transect.

Selected sediment samples will be collected for analyses of geotechnical parameters (grain size and specific gravity) and microbiological-related factors (sediment nutrients, TOC, and plate counts).

As discussed in Section 3.2.4, sediment and surface water will be sampled at a background location on the Chena River in conjunction with investigation activities at the East QFS area.

### 3.1.5 Tar

Along portions of the south bank of the Chena River, within the West QFS source area, 55-gallon steel drums of tar are present (Figure A-3). The origin of the drums may be related to the former operation of an asphalt plant, which was located farther to the west in the ROLF area. Several drums are presently visible along the riverbanks; an unknown number remain buried. The integrity of many drums has been affected by corrosion, allowing the tar to contact sediment and river water.

Four drums will be randomly selected for tar sampling to evaluate COCs and to assess the potential risk presented by the tar. Samples will be analyzed for DRO, GRO, VOCs, SVOCs. In addition, the leaching potential of VOCs and SVOCs will be evaluated using the Toxicity Characteristic Leaching Procedure (TCLP).

To identify the extent of buried drums, a geophysical survey will be performed using ground-penetrating radar (GPR) and electromagnetic (EM) profiling. The survey will cover a band-like zone, about 100 feet in width and 1,200 feet in length, centered along that portion of the south riverbank where drums are known to be present.

The drum sampling and geophysical investigation will occur at the start of the field effort. Samples will be analyzed within a 7-day laboratory turnaround time to facilitate potential drum removal during the 1995 field season. The nature and extent of drum removal activities will be based on the data collected and will be coordinated with the USACE.

### 3.1.6 Petroleum Product

The West QFS area contains two distinct free-product plumes: a large plume covering approximately 4-1/2 acres between Front Street and Gaffney Road, and a small plume covering approximately 250 square feet between the north flight line and Front Street (Figure A-2). Samples of petroleum product will be collected from the free-product plumes to characterize physical and chemical properties for removal action. Samples will be collected from Product Probes PP-1, PP-5, and PP-10 in the larger plume, and from Groundwater Probe GP-158 in the smaller plume (Figure A-3). Before collecting samples, product levels will be surveyed in surrounding probes and wells to evaluate the extent and thickness of free product. If product is not encountered in a designated sample location, an alternate location with sufficient product will be sampled. The product samples will be analyzed for kinematic viscosity, specific gravity, and fuel identification and quantitation.

The product thickness survey, product sampling and analyses, and product recovery well installation will support evaluating and implementing a removal action and treatability study as described in Section 5 of the OU 5 RI/FS MP. The product survey and sampling will be performed at the start of the field effort. Samples will be analyzed within a 7-day laboratory turnaround time to facilitate implementing a removal action/treatability study during the 1995 field season. The scope of the removal action/treatability study will be based on the results of the initial data collected and will be coordinated with the USACE. The treatability study component of the removal will include evaluating passive and active technologies for product recovery.

## 3.2 East Section, Former Quartermaster's Fueling System Source Area

The East QFS area is located between the north runway and the Chena River, and between Building 1579 to the southwest and Building 1054 to the northeast. The source area includes Buildings 1060, 1565, 1053, 1054, former Building 1567, and various former fueling system components including approximately 16 aboveground and underground gasoline and diesel storage tanks, dispensing islands, a truck fill stand, a pump house, and associated valves and piping. Fuel was supplied to the system by railroad tank cars and by pipeline from the Birch Hill terminal. The fueling system no longer operates and most visible components of the system have been removed or demolished.

Environmental concerns in the East QFS area are related to possible releases of fuel from the fueling system and to past operational and disposal activities in the vicinity of several buildings in the source area. These buildings have previously served such uses as vehicle maintenance, dry cleaning, fueling equipment maintenance and storage, hazardous materials storage, and fuel testing. The general features of the East QFS area are shown on Figure A-7. A detailed description of past practices and the findings of previous investigations performed at the East QFS area are included in Section 2.3 of the OU 5 RI/FS MP.

The investigation at the East QFS area will focus on existing and potential contamination of soil, groundwater, sediment, and surface water. The sampling program is detailed in the following sections. Sampling rationale, chemical analyses, analytical methods, and quantities of samples to be collected from surface and subsurface soil, groundwater, sediment, surface water, and petroleum product at the East QFS area are summarized in Tables A-8 through A-13.

### 3.2.1 Surface Soil

Surface-soil samples will be collected, and the analytical results will be used to evaluate the potential presence of contaminants and to model ambient air dust concentrations for future risk assessment.

Approximately 50 surface-soil samples will be collected at locations from around the former AST fueling system components where historical information indicates potential surface releases may have occurred (Figure A-8). Sample locations will be selected using a systematic grid (EPA, 1989a). The sampling grid will provide an 80-percent confidence level for detecting circular-shaped contaminated areas 25 feet or larger in diameter. Samples will be analyzed for DRO, GRO, VOCs, and SVOCs.

Approximately 10 near-surface (6 to 24 inches deep) soil samples will be collected from west of Building 1565 to evaluate the presence of 1,1,1-TCA that resulted from a potential undocumented surface spill. Samples will be analyzed for DRO, GRO, VOCs, and SVOCs.

Approximately 10 near-surface (6 to 24 inches deep) soil samples will be collected east of Building 1060 to evaluate the presence of TCE that resulted from an undocumented surface spill. Samples will be analyzed for DRO, GRO, VOCs, and SVOCs.

Samples will also be collected from the surface interval of each soil boring drilled as described in Section 6.2.

Selected samples will be analyzed for TOC, soil nutrients, and microbial plate count. Other selected samples will be used to measure physical characteristics of the soil (particle size, moisture content, and specific gravity).

### 3.2.2 Subsurface Soil

As many as 33 borings will be placed to laterally and vertically define areas of concern identified during surface-soil sampling, and to identify whether contaminated soil is an ongoing source of groundwater contamination. The number of borings is an estimate based on site investigations performed to date. Borings will be drilled to a maximum depth of about 5 feet below groundwater.

Underground fuel distribution lines are potential fuel release sources; underground utilities may serve as potential sources for contaminants. To evaluate the potential presence of contaminants along these lines, as many as 10 soil borings will be drilled. Borings will be located in areas of suspected releases.

Samples will be collected from the borings at approximate depths of 0, 5, 10, 15, and 20 feet below ground surface. Sample depth increments and frequency may be changed based on professional judgment and observed soil condition. Samples will be analyzed for DRO, GRO, VOCs, and SVOCs. Selected samples (typically two per boring) will be analyzed for geotechnical parameters (grain size, moisture content, and specific gravity). In addition,

selected samples will be analyzed for soil nutrients, TOC, and microbial plate counts.

Soil-gas permeability and in situ microbial respiration tests will also be performed. Soil analyses, soil-gas permeability tests, and respiration tests will be used in the FS to evaluate remedial alternatives for the site.

### 3.2.3 Groundwater

Groundwater analytical results from monitoring wells and groundwater probes in the East QFS area indicated the presence of groundwater plumes of free product, DRO, GRO, benzene, TCE, cis-1,2-DCE, and 1,1,1-TCA.

The extents of the DRO and GRO plumes, and the northern extent of the TCE plume are not well defined. The vertical extents of the plumes are not defined. The extent of organic lead in groundwater is unknown. As a result, additional investigation will be undertaken to allow a more detailed evaluation of these plumes.

Based on the Fort Wainwright 1993 Groundwater Summary Report (EMCON, 1994), the regional groundwater flow direction is west to northwest. Groundwater flow characteristics adjacent to the Chena River are not fully understood; however, data obtained during ongoing studies by the CRREL are expected to characterize hydrogeologic interaction between groundwater and the Chena River. Work plans for the CRREL and USGS studies are contained in the *Draft Compiled Work Plans for Groundwater Analysis Tasks at Fort Wainwright, Alaska* ($CH_2M$ Hill, 1995).

Initially, groundwater samples will be collected from selected existing monitoring wells and probes. The samples will be analyzed for GRO, DRO, VOCs, SVOCs, and lead on a quick-turnaround basis to evaluate the current distribution of contaminants.

Groundwater probes will be used to investigate the lateral and vertical extents of DRO, GRO, VOCs, and SVOCs in groundwater north of the Chena River. Initially, 11 deep groundwater probes will be installed on a grid (200-foot spacing) beginning at the north bank of the Chena River and extending about 600 feet to the north, as shown on Figure A-5. The deep probes will be used to investigate the vertical extent of contaminants in the unconfined aquifer. Samples will be collected from deep probes at 20, 30, 40, 50, 60, and 70 feet below ground surface. Groundwater analyses will be performed on a quick-turnaround basis to aid, if necessary, in placing additional probes for monitoring wells.

Vegetation clearing may be necessary to facilitate equipment access for installing probes; however, clearing will not be performed within 100 feet of the Chena River north bank. Clearing activities will be coordinated with Ms. Rindgen DeCecco. Probes sited within 100 feet of the north bank will be installed at locations that can be accessed without clearing.

Based on analytical results from existing monitoring wells and probes and on initial probes installed north of the Chena River, as many as 30 new shallow and 10 deep probes will be installed south of the Chena River, and as many as 10 deep probes will be installed north of the Chena River, to further evaluate the extent of groundwater contamination. Shallow probes will be installed to a depth of about 20 feet. Deep probes will be installed to depths between 30 to 70 feet. Samples from the additional probes will also be analyzed on a quick-turnaround basis.

As many as 10 permanent groundwater monitoring wells will be installed at appropriate locations to confirm the presence of contaminants and to facilitate future monitoring. The numbers and depths of groundwater probes and monitoring wells will be adjusted during the field investigation after groundwater probe sampling results are considered. Criteria used to site the locations and depths of permanent groundwater wells will include chemical concentrations detected in initial probes, contaminant distribution, groundwater flow direction, and the location of potential receptors.

Aquifer characteristics will be estimated by performing slug tests in approximately three

selected wells or groundwater probes in the East QFS area (two north and one south of the Chena River). Water-level measurements will be used to evaluate groundwater flow direction, gradient, and the effect of seasonal fluctuations on local groundwater flow patterns. Data from CRREL's groundwater flow probes and triangulation studies will also be used to characterize water levels, flow directions, and gradients.

### 3.2.4 Surface Water and Sediment

The Chena River flows westward through the northern portion of the East QFS area. No releases of fuels or other contaminants into the Chena River from the East QFS source area have been documented. However, as noted above, the northward extents of suspected DRO, GRO, and TCE groundwater plumes are not defined and may extend north of the Chena River. Therefore, river sediment and surface-water samples will be collected to assess the potential presence and distribution of contaminants that may have impacted surface water and sediment.

Drainage from several of the OUs at Fort Wainwright eventually enters the Chena River via groundwater or surface water. PCBs, pesticides, and dioxins have been detected at OU 2 source areas (North Post site and DRMO salvage yard) and a CERCLA site (Arctic Surplus site) located upriver from OU 5.

Sediment samples will be collected approximately every 100 feet along the north and south banks of the Chena River (approximately 12 samples from each bank) (Figure A-6). The sample spacing will provide a statistically significant number of samples to characterize the Chena River banks along the West QFS area. These samples will be analyzed for DRO, GRO, VOCs, and SVOCs on a quick-turnaround basis. Samples will be used to assess the effects of previous releases and the potential migration of contaminants into the river from the East QFS area.

Based on the bank sediment sample results, two Chena River sampling transects will be established. Five sediment samples (one near each bank and three from the channel bottom) will be collected from the transects and analyzed for DRO, GRO, VOCs, SVOCs, PCBs/pesticides, organophosphorous pesticides, dioxins/furans, and metals on a normal turnaround basis. In addition, eight collocated surface-water samples (5 shallow and 3 deep) will be collected from the transect and analyzed for the same parameters except dioxins/furans. The transect samples will be used to assess the potential migration of contaminants into the river from the East QFS area and from other sources upriver. Figure A-6 presents a cross-section showing sampling locations along a typical transect.

Selected sediment samples will be collected for analyses of geotechnical parameters (grain size and specific gravity) and microbiological-related factors (soil nutrients, TOC, and plate counts).

To provide background data, another river sediment and surface-water sampling transect will be sited at a location upstream of the East QFS area in an area that is believed to be uninfluenced by known contaminant sources. Background sampling locations will be selected by comparing ecological characteristics observed along the river in the background area, and at the West and East QFS areas. For bank sediment, five transect sediment and eight surface-water samples will be collected at the background river transect (Figure A-6). The sediment samples will be analyzed for GRO, DRO, VOCs, SVOCs, PCBs/pesticides, organophosphorous pesticides, dioxins/furans, and metals. Surface-water samples will be analyzed for the same parameters except dioxins/furans.

### 3.2.5 Petroleum Product

A free-product plume covering approximately 1/4 acre is located in the East QFS area north of Gaffney Road near Building 1070 (Figure A-2). Samples of petroleum product will be collected from the free-product plume to characterize physical and chemical properties for a removal action. Samples will be collected from Probe PP-7 or GP-217 (Figure A-3). Before collecting samples, product levels will be surveyed in surrounding wells and probes to evaluate the

extent and thickness of free product. If product is not encountered in a designated sampling location, and alternate location with sufficient product will be sampled. The product samples will be analyzed for kinematic viscosity, specific gravity, and fuel identification and quantitation.

The product thickness survey, product sampling and analyses, and product recovery well installation will support evaluating and implementing a removal action and treatability study as described in Section 5 of the MP. Product survey and sampling will be performed at the start of the field effort. Samples will be analyzed within a 7-day turnaround time to facilitate implementing a removal action/treatability study during the 1995 field season. The scope of the removal action/treatability study will be based on the results of the initial data collected and will be coordinated with the USACE. The treatability study component of the removal will include evaluating passive and active technologies for product recovery.

## 3.3 Open Burning/Open Detonation

The OB/OD area is located south of Fort Wainwright's main cantonment and within the small arms impact area. The site lies on a relatively flat portion of the Tanana River floodplain about 1,500 feet north of the river and 1,500 feet south of the flood control dike (Figure A-9). The source area formerly was used for disposing (by burning or detonating) unexploded and dud ordnance, unused propellants, rocket motors, and other potentially hazardous materials.

An investigation was performed at the OB/OD area in 1994 to identify the presence of potential contamination (USACE, 1994). Eight soil samples and one water sample were collected from in and around several impact craters. Low concentrations of DRO and an organosulfur compound (p-chlorophenyl methyl sulfoxide) were detected in several soil samples. A low concentration of DRO was also detected in the water sample collected from a detonation crater. A detailed description of past practices and the finding of the previous investigation at the OB/OD area is included in the OU 5 RI/FS MP, Section 2.4.

The investigation at this site will focus on potential metals contamination in the soil resulting from previous detonation activities. The remedial program managers have resolved that other potential contaminants at the site have been adequately characterized. Samples collected during the USACE investigation were not analyzed for the presence of metals. In particular, the metals lead, mercury, and vanadium are of potential concern based on environmental investigations performed at similar disposal sites (HLA, 1993). Sampling rationale, chemical analyses, analytical methods, and quantity of samples to be collected from soil are summarized in Tables A-14 and A-15.

Eight surface-soil samples will be collected from impact craters and other areas that approximate the locations of soil samples collected on September 1, 1994, by the USACE (Figure A-10). Two background surface-soil samples will be collected from a location about 1,000 feet northeast of the OB/OD area that is likely to be unaffected by disposal activities. If contaminant concentrations in the OB/OD area exceed levels of concern (taking background metals concentrations into consideration), HLA will notify the USACE. HLA will expand the sampling approach after consulting with the USACE to further assess the nature and extent of metals contamination at the site.

# 4.0 SAMPLE DESIGNATION AND DOCUMENTATION

Field personnel will maintain documentation of administrative and technical activities. The following types of documentation are required:

- Field logs
- Boring logs
- Well completion forms
- Groundwater sampling data forms
- Well development documentation
- Probe completion forms
- Sample record logs
- Equipment calibration logs
- Photographs

The groundwater sampling data form is described in Section 6.3. The boring logs and well/completion forms are described in Sections 5.3 through 5.5. Field logs, sample record logs, and photographs are discussed in the following sections.

Deviations from the MP will be documented in the project field supervisor's bound field logbook or in a memorandum from the project manager. The documentation will also describe the basis for the deviation.

## 4.1 Sample Labels

Sample labels (Attachment, Form 1) are required for all samples. Site- and time-dependent information will be added to the labels using indelible ink. The labels will be protected from water and solvents with clear label-protection tape. Each label will contain the following information:

- Project name
- Name of collector
- Date and time of collection
- Place of collection
- Sample number
- Preservation
- Depth of sample (soil, nested well or deep probe, groundwater, or surface-water samples)
- Method of analysis

The samples will be numbered as follows: 95FWXYYYZZ, where 95 is the current year, FW is Fort Wainwright, X is the site number, YYY is the sample number at the site, and ZZ is the sample type. Field quality assurance (QA) and quality control (QC) samples will be labeled and numbered so that the laboratory cannot distinguish them from other site samples (see the Quality Assurance Project Plan [QAPjP], Appendix B.

Sample site number designations will be as follows:

| Site Number | Site Name |
|---|---|
| A | West Section, Former Quartermaster's Fueling System Source Area; |
| B | East Section, Former Quartermaster's Fueling System Source Area; |
| C | Open Burning/Open Detonation Source Area. |

Sample type designations will be as follows:

| Sample Designation | Sample Type |
|---|---|
| SS | Surface soil |
| SL | Subsurface soil |
| SD | Sediment |
| TR | Tar |
| SW | Surface water |
| WA | Groundwater |
| PP | Petroleum product |

## 4.2 Field Logs

The project field supervisor will be required to maintain a bound field logbook of daily activities. Activities should be recorded contemporaneously. Field logs will include the following information:

- Name of author, and date and time of entry,

- Location of activity,
- Names and affiliations of personnel onsite,
- Field observations and comments,
- Health and safety comments,
- Conversations with USACE and DPW representatives,
- Number of hours worked.

The field logs will be signed at the end of each day.

### 4.3 Sample Record Log

The field supervisor will maintain a sample record log spreadsheet that will contain the following information:

- Sample number
- Sampling location
- Date and time sample was collected
- Sample depth
- Analyses requested
- Number of containers
- Type of sample, if it is a QA/QC sample
- Date shipped
- Airbill number

### 4.4 Photographs

Photographs will be taken in the field to document sampling locations and conditions. Photographs of all samples will be taken with the sample number and depth clearly visible. A photographic log will be kept in which the date, location, and direction the photographer is facing (if appropriate) will be recorded. Photographs and negatives will be labeled, placed in a binder, and submitted to the USACE at the end of the project.

### 4.5 Documentation Control

Project files will be maintained by the project task manager. Documents will be kept in the project files. Project personnel may keep their own duplicate files; however, all original documents will be placed in the official project file. Field logs of boring, sampling, and well installation activities will be maintained by the field supervisor and submitted to the task manager after the field effort.

### 4.6 Sample Handling, Packaging, and Shipping

Tables A-1 through A-15 present types of sample containers, sample volumes, methods of preservation, and sample holding times that will be used for the collection of field-screening and environmental samples.

Samples will be packaged for shipment according to Department of Transportation (DOT) regulations. Method of shipment, courier name(s), and other pertinent information will be entered on the chain-of-custody form. Chain-of-custody forms are discussed in further detail in the QAPjP (Appendix B).

To minimize the potential for degradation and to maintain a temperature of about 4 degrees Celsius (°C), samples will be chilled in a cooler using an ice substitute (e.g., blue ice). The chain-of-custody form will be filled out in indelible ink, placed in a resealable plastic bag, and taped to the inside lid of the shipping cooler. The outside of each cooler will be sealed with custody seal tape to readily show evidence of tampering. Marking and labeling procedures will be consistent with DOT regulations. Airbills will be properly completed, and copies will be retained and placed in the project file.

The following checklist details the procedures for sample packaging and shipment:

- For water samples other than those for VOC analyses, mark the sample volume with a grease pencil (sample bottles for VOC and GRO analyses should be completely filled, with no headspace).
- Place a layer of ice substitute and cushioning material in the bottom of the cooler. Then place a layer of cardboard over the cushioning material.
- Wrap each bottle with a layer of bubble wrap. Enclose each bottle in a separate, clear plastic bag and seal each bag. Single samples consisting of two or three 40 mL or

2-ounce containers may be placed together in a single plastic bag after they are individually wrapped to prevent glass-to-glass contact. Then place the bottles upright in the cooler so that they will not touch during shipment.

- Place additional cushioning material to cover sample bottles and fill voids between bottles. Then place the ice substitute into the cooler.
- Fill the cooler with cushioning material.
- Tape the cooler drain shut.
- Place the completed chain-of-custody form (see Section 4.1), appropriate QA Sample Form, note indicating destination for return of cooler, and sample analysis description sheet in a plastic bag, and tape the bag to the inside lid of the cooler.
- Secure the lid by wrapping the cooler with strapping tape at two locations. Tape the cooler latch closed with strapping tape.
- Seal the cooler with custody seals in three places other than the areas with strapping tape and the hinged side. Sign and date custody seals. The signature on the custody seals should match the signature on the chain-of-custody form.
- Attach the completed shipping label to the top of the cooler; affix "This side up" labels on all four sides, and "Fragile" and "Chill, Do Not Freeze" labels on at least two sides.

# 5.0 FIELD OPERATIONS

Field operations to be performed during the OU 5 RI are described in the following sections.

## 5.1 Geophysical Survey

A surface geophysical survey will be conducted along the south bank of the Chena River to locate buried drums containing tar. Geophysical methods include ground-penetrating radar (GPR) and electromagnetic (EM) profiling. General geophysics procedures will be as follows:

- Perform a functional check of equipment and calibrate to local site conditions.
- Establish a grid of perpendicular survey transects over the investigation area.
- Investigate subsurface conditions along the survey transects using GPR and EM profiling.
- Record and document pertinent information in a field notebook.

### 5.1.1 Ground-Penetrating Radar

GPR, which uses radar technology to obtain a continuous high-resolution profile of the subsurface, consists of a pulse generator, a transmitting and receiving antenna, and a graphic recorder. GPR transmits a signal that is coupled to the earth by the antenna. When a subsurface signal encounters a boundary between media with different electrical properties (e.g., soil and drums), a portion of the wave energy is reflected back to the surface, detected by the antenna, amplified, and printed on a graphic recorder.

During the investigation, the recorder will be positioned in a support vehicle, and the antenna will be attached to the recorder by a 100-foot cord and manually pulled over the ground surface.

### 5.1.2 Electromagnetic Profiling

EM profiling involves transmitting a primary signal that is inductively coupled to the earth. Secondary signals are generated in the ground, and both the primary and secondary fields are detected by the EM receiver. Metal objects such as cables and steel drums are electrically conductive compared to native soil and, therefore, produce anomalous readings in measured conductivity values. EM profiling does not provide specific information about the depth to buried objects, but is effective in defining horizontal positions.

## 5.2 Utility Clearance

Before initiating subsurface investigations, soil boring locations will be cleared of utilities and other subsurface obstructions. Fort Wainwright utility personnel will be notified of proposed boring locations and will be requested to clear those areas. In addition, a buried pipe and cable locator (see description below) will be used to clear soil boring locations of potential subsurface obstructions. If utilities are exposed at the surface near the soil boring location, the locator will be used in the direct transmission mode to trace the buried portion of the utility through the soil boring area. Approval of the final boring locations will be requested from utility representatives.

A buried pipe and cable locator is composed of a hand-carried receiver that detects EM signals rising from the electric current flow of buried linear conductors. Two types of signals can be passively detected by the locator: those resulting from power lines and those associated with metal pipes that reradiate ambient radio signals. In the active mode, a transmitter unit can generate an 8- or 33-kilohertz (KHz) signal that may be inductively coupled to subsurface pipes or cables, or directly connected to pipes that extend to the surface. The resulting signals may be traced on the surface with a receiver.

## 5.3 Soil Boring and Logging Procedures

Each soil boring will be logged to provide a record of subsurface conditions encountered

during drilling. The logs will be prepared and maintained by the engineers and/or geologists supervising the drilling activities. Observations will be recorded on boring log forms (Attachment, Form 2). Boring logs will be prepared in accordance with ASTM Method D 2488 (ASTM, 1984) as shown on Figures A-11 and A-12.

Borings will be drilled with a truck-mounted drilling rig using hollow-stem auger drilling methods. In off-road areas north of the Chena River, a Nodwell-mounted drilling rig may be used. Borings will be drilled to depths of approximately 20 to 25 feet below ground surface, or to 10 feet below the water table. Groundwater is expected to be encountered at about 15 feet below ground surface in the East and West QFS areas, and 10 to 15 feet below ground surface in the OB/OD area.

Subsurface-soil samples will be collected from the borings to log soil descriptions and to provide samples for chemical analyses. Each sample will be photographed. Samples collected for visual soil descriptions will be obtained from either a split-barrel drive sampler or from cuttings off the flights of the hollow-stem auger. Visual inspection of the cuttings may be useful to provide information about the characteristics of very coarse geologic materials, such as gravels and cobbles, that are normally too large to pass through the drive shoe of a split-barrel sampler.

Samples for geotechnical analyses will be collected using a split-barrel drive sampler and then sealed in plastic "geobags." Two samples from each boring will be collected for geotechnical analyses: one from the vadose zone and one from below the water table. The geotechnical sample from the vadose zone will be collected from a depth interval representative of a single soil horizon. Vadose zone geotechnical samples from subsequent borings will be selected from other soil horizons, so that geotechnical samples are obtained from each soil horizon present in the source area. The samples will be submitted to a soil laboratory for estimation of grain-size distribution, moisture content, and specific gravity.

Soil samples submitted for chemical analyses will be collected with a split-barrel drive sampler driven into undisturbed soil. After collection, soil from the sampler will be transferred to appropriate sample containers. Borings not converted to monitoring wells will be backfilled with rough-cut bentonite.

## 5.4 Groundwater Probe Installation

Groundwater probe surveys will be used to explore for the presence of contaminated groundwater and, if found, to investigate the lateral and vertical extents of the contamination. Construction details for groundwater probes are shown on Figure A-13. Probe materials will be precleaned before installation.

The probe consists of nominal 1/2-inch-diameter, Schedule 40, black iron pipe with a stainless steel drive point tip, a stainless steel slotted screen section, and blank pipe to ground surface. A 3-foot section of blank stainless steel pipe will be attached to the bottom of the screened section to act as a silt trap. Sections of the groundwater probe that contact groundwater will be stainless steel. The screen section is made of two rows of slots arranged lengthwise along opposite sides of the pipe. Slot sizes will be 0.008 inch. Groundwater probes are driven into the ground with an impact hammer. Probe extensions consisting of blank pipe sections are welded to preceding sections to reach the desired depth. Pipe sections are generally 10.5 feet in length, but other lengths, to a maximum of 21 feet, are possible.

For investigation of the uppermost portion of the aquifer, the probe will be driven until the top of the screen section is approximately 5 feet above the water table surface (i.e., a penetration of approximately 5 feet into the aquifer). Sampling will be performed as described in Section 6.3 of this FSP.

Groundwater probe locations will be located from surveyed reference points using a swing-tie survey or an electronic distance measurement (EDM) technique. The accuracy of groundwater probe location measurements is expected to be plus or minus 1.0 foot. For probes selected for permanent installation, the elevation of the top of the probe will be measured to allow estimation of static groundwater elevations at that location. Accuracy of the elevation survey will be 0.01 foot. All location measurements will be recorded in the field logbook.

Groundwater probes that are to be left permanently in the ground will be fitted with a utility key box completed flush with the ground surface. All other probes will be removed following sampling and the formation will be allowed to collapse to fill the probe hole. Any hole left open after abandonment will be filled with bentonite chips. Probe completion details will be recorded by field personnel on a Probe Completion Data form (Attachment, Form 3).

## 5.5 Monitoring Well Installation

Monitoring wells will be installed using a truck-mounted drilling rig and hollow-stem auger methods. The auger size will be at least 6 inches nominal inside diameter (I.D.). A geologist or engineer will supervise the drilling and well installation, and will prepare logs of the borings using the classification system presented on Figures A-11 and A-12. Soil samples will be collected as described in Section 6.2.

### 5.5.1 Standard Monitoring Well Construction

Monitoring well installation details are shown on Figure A-14. The monitoring well casing will be constructed of a minimum 2-inch-diameter (2.375-inch outside diameter [O.D.] by 2.067-inch I.D.), Schedule 40, flush-joint threaded, PVC pipe. The well screen will be Johnson 2-inch-diameter (3.63-inch O.D. by 2.067-inch I.D.), 0.008-inch slot, PVC Vee-Pack (pre-packed screen). If high concentrations (greater than 10,000 parts per million [ppm]) of solvents are known to be present, stainless steel screen will be used in place of the PVC. Casing and screen sections will be coupled with threaded joints; PVC solvent, glue, or metal fasteners will not be used. The screen length will be selected based on groundwater levels encountered. Each well will have 15 feet of screen so that approximately 10 feet of screen extends below the water table and approximately 5 feet extends above the water table. Screen sections will be placed to avoid creating interconnection of two or more hydrostratigraphic units.

A threaded cap will be installed at the bottom of the casing and screen assembly. The assembly will be set in place by lowering it through the hollow stem of the auger to the bottom of the boring or to a more appropriate position higher in the boring. A sand pack of 40/60 Colorado silica sand will extend at least 2 feet above the top of the screen. The sand pack will be installed by pouring sand down the annulus between the auger's hollow stem and the well casing. The supervising geologist or engineer will verify that the sand pack extends at least 2 feet above the screened interval by measuring the sand level with a weighted tape.

Rough-cut bentonite will be placed above the sand pack to the ground surface by adding bentonite as the auger is raised. The installation will be completed by embedding a 5-foot-long, 6-inch-diameter steel pipe (security casing) approximately 2 feet into the bentonite seal and over the well pipe. A 4-foot-diameter, 6-inch-thick gravel pad, sloping away from the well, will be placed at the ground surface around the security casing. Each security casing will be equipped with a locking cap; combination locks will be installed on all new wells and will be set to USACE-defined combinations.

As needed, security casings will be protected by being surrounded with up to three steel guard posts. The guard posts will have a minimum diameter of 2 inches, and will be installed vertically in the ground at a distance of 2 feet radially outward from the well head. The guard posts will be 5 feet long, will be filled with concrete, and will extend at least 2 feet into the ground. Security casings and guard posts will be painted

yellow, and the well number (provided by the USACE) will be marked on the casing interior and exterior. A marking flag will be attached to the security casing to make it easy to find in the winter. The top of the PVC casing (used as the water-level elevation reference point) will be marked with either a hacksaw cut or permanent ink. Well completion details will be recorded by field personnel on a Field Well Completion form (Attachment, Form 4).

### 5.5.2 Well Development

Development of each new well will begin no sooner than 48 hours after well construction is completed. Development will be performed using surge/purge methods for 30 minutes per 5 feet of submerged screen. Surging will be accomplished with a surge block; purging will be performed with a pump and/or bailer. If the thickness of free product measured in the well is equal to or greater than 0.01 foot, the well will not be developed. The adequacy of well development will be evaluated by the supervising geologist or engineer by using measurements of specific conductance, water temperature, pH, DO, REDOX, and turbidity. A minimum of 10 well casing volumes will be drawn from the well to assess whether stabilization of groundwater field parameters has occurred. Water quality will be considered stable when the following conditions are observed:

- pH varies less than 0.1 pH unit in three consecutive samples;
- Temperature varies less than 0.5°C in three consecutive samples;
- Conductivity varies less than 5 percent in three consecutive samples;
- DO varies less than 10 percent in three consecutive samples;
- REDOX varies less than 10 percent in three consecutive samples;
- Turbidity is less than 25 NTUs.

After completion of well development, approximately 1 liter of groundwater will be collected in a clear glass jar. The jar will be photographed and submitted as part of the project photographic record. The photograph will demonstrate the clarity of the water following well development. Well development information will be recorded on a Well Development Data form (Attachment, Form 5).

### 5.5.3 Water-Level Surveys

Water levels in each well and in selected groundwater probes will be measured using an electronic sounder. Water levels will be documented on HLA's Well Development and Groundwater Sampling forms (Attachment, Forms 5 and 6) and on the DPW's Environmental Activities Tracking System, Ground-Water and Surface-Water Levels form (Attachment, Form 7). For the water level survey, water levels will be measured on the same day. The water-level survey will be coordinated with Mr. Mike Lilly of the USGS Water Resources Division ([907] 479-5645, ext. 231) to avoid duplicating effort. The following protocol will be employed while collecting water-level data:

- An electronic sounder will be used to measure water levels in all wells and groundwater probes; an electronic interface probe will be used to measure water levels and the thickness of free product or films in those wells and groundwater probes where free product is anticipated.
- That portion of the probe cable submerged below fluid levels in wells will be cleaned according to the decontamination procedure described in Section 5.10.
- Interface probes and electronic sounders will be kept clean and will be maintained in accordance with manufacturers' instructions.
- A permanent mark, located at the top of the PVC well casing groundwater probe, will serve as the point of reference for water-level measurements in that well or probe.

## 5.6 Aquifer Testing

Previous investigations at Fort Wainwright have shown that the alluvial aquifer underlying the area is approximately 10 to 20 feet below ground

surface, may have a saturated thickness up to several hundred feet, and is highly transmissive (hydraulic conductivity on the order of 1 by $10^{-1}$ centimeters/second). If traditional pump tests were used to estimate the hydraulic characteristics at each of the source areas, unusually large quantities of potentially contaminated water would be produced. Therefore, slug tests will be used at the OU 5 source areas to minimize the volume of water produced during testing. Traditional pump tests will only be performed if the results obtained from slug tests prove unsatisfactory.

As part of studies being conducted at Fort Wainwright by other agencies, aquifer parameters will be estimated by other methods as detailed in the compiled work plans ($CH_2M$ Hill, 1995). Methods include tracer tests and estimating hydraulic conductivity based on analyses of Chena River recharge and on particle-size distribution analyses of soil.

Slug tests will be performed following ASTM Test Method D 4044-91, "Field Procedure for Instantaneous Change in Head (Slug Tests) for Determining Hydraulic Properties of Aquifers." The slug test method involves causing a sudden change in head in a test well, and measuring the recovery response of the water-level within the test well.

The slug tests will be performed in 1-1/4-inch inside diameter well points installed with an impact hammer. The well point will include a 5-foot-long, stainless steel, wire-wrapped screened section with 0.010-inch slots. The screened section has an open area of 9.1 square inches per linear foot.

Before starting the slug test, the water levels in the test probe and in other nearby wells or probes will be measured to establish the ambient (static) water level. A pressure transducer and data logger will then be installed and calibrated (if this method is used to record water levels during testing). A mechanical or pressure-induced "slug" will then instantaneously displace a known volume of water from the test well or probe (i.e., the water level in the well will be quickly lowered). The water level will then be allowed to recover to static conditions. Measurements of water-level versus time will be recorded during the recovery period.

The methodology developed by Bouwer and Rice for determining the hydraulic conductivity of unconfined aquifers with partially penetrating wells (1976) will be used to analyze slug test data. The analysis will result in an estimation of saturated hydraulic conductivity of the aquifer materials immediately surrounding each test probe.

## 5.7 In Situ Respiration and Soil-Gas Permeability Testing

In situ respiration testing provides a quick field measurement of in situ biodegradation rates to be used in the design of full-scale bioventing systems. The test consists of placing soil-gas monitoring/air injection probes into the unsaturated zones of contaminated and uncontaminated areas at a site. Baseline concentrations of oxygen ($O_2$) and carbon dioxide ($CO_2$) are measured at the monitoring/injection points prior to aerating the soil. Following air injection, soil concentrations of $O_2$ and $CO_2$ are monitored for indications of biological respiration.

Field-scale in situ respiration and soil-gas permeability testing will be conducted to achieve the following objectives:

- Measure oxygen utilization and carbon dioxide production rates,
- Assess the capacity for airflow in site soil,
- Assess the applicability of the bioventing technology for site remediation.

An in situ respiration and soil-gas permeability testing system consists of the following equipment and materials:

- Venting well;
- Soil-gas monitoring/probes;
- Blower system;
- Helium;

- Pressure gauges;
- Air and helium flow meters.

Table 16 presents a summary of parameters to be measured for the in situ respiration test.

### Test Procedure

The following procedures are from *Test Plan and Technical Protocol for a Field Treatability Test for Bioventing*, Environmental Services Office, Air Force Center for Environmental Excellence (AFCEE), May 1992. Data from the test will be recorded on an Air Response Test Form (Attachment, Form 8).

Existing site information will be evaluated to select the location of a vent well. The vent well will be as near to the center of the contaminated area as possible, and will be screened over the bottom half of the unsaturated zone. Soil-gas monitoring probe clusters will be installed at a minimum of three locations. To the extent possible, the probe locations will be in a straight line and approximately 20, 40, and 60 feet from the vent well. Probe clusters will consist of two or more monitoring probes screened at the desired depths. In addition, a monitoring probe will be installed in an area uninfluenced by known contamination to monitor the background respiration of natural organic matter.

Before initiating airflow for the respiration test, baseline $O_2$, $CO_2$, and organic vapor concentrations will be measured at each monitoring point. As many as three monitoring points exhibiting the lowest oxygen and highest organic vapor concentrations, preferably at different depths, and the background probe will be selected for venting with an air-helium mixture.

Soil surrounding the selected probes will be aerated with the air-helium mixture for approximately 24 hours, by injecting air into the probes at a rate of approximately 1.5 cubic feet per minute. Following the aeration period, the probes will be monitored for $O_2$, $CO_2$, organic vapor, and helium concentrations at 1, 2, 4, 6, and 8 hours, and then every 4 to 12 hours depending on the $O_2$ utilization rate. The monitoring will continue until the $O_2$ level reaches approximately 5 percent, or for a maximum of 5 days.

A constant-rate air permeability test in soil is used to evaluate radius of influence and air conductivity of soil for remedial design. The test is conducted by attaching a pressure gauge, an airflow meter, and a blower to a designated venting well (i.e., temporary or permanent monitoring well) located in an area likely to be remediated by in situ vapor extraction or biodegradation.

The blower is turned on and air pressures in the vent well and surrounding monitoring probes are measured. The airflow rate is measured at the blower well using a direct-reading airflow meter.

During the test, the blower is operated continuously at a constant rate for at least 6 hours or until readings in the monitoring wells stabilize. Response and flow-rate measurements are conducted according to the following schedule:

| Blower Test Run Time | Measurement Frequency |
|---|---|
| 0 to 60 minutes | 1 every 5 minutes |
| 1 to 6 hours | 1 every 30 minutes |

Pressure will continue to be measured until steady-state pressure conditions are reached. Steady state will be assumed when successive pressure readings vary by less than 5 percent of the total pressure change. The test will then be repeated for two different flow rates. Data from the test will be recorded on an Air Response Test form (Attachment, Form 8).

### Data Analyses and Interpretation

Data from the in situ respiration and air permeability tests will be summarized, and $O_2$ utilization rates, air permeability, and radius of influence will be calculated. $O_2$ utilization will be graphically depicted by plotting monitoring results over time, and will be used to estimate biodegradation rate. $CO_2$ monitoring results may be used to support estimates of biodegradation rate. Helium monitoring data will be used to

be used to support estimates of biodegradation rate. Helium monitoring data will be used to estimate $O_2$ depletion due to mechanisms other than biological respiration. Measurements obtained during the soil-gas permeability test will be used to estimate soil-gas permeability using established methods. Based on the results of the testing, the applicability of bioventing to site remediation will be evaluated.

## 5.8 Surveying

The site will be surveyed to provide ground elevations and horizontal locations of soil borings, groundwater probes, monitoring wells, and sediment sampling transects. An elevation will be identified for the top of the PVC casing in each monitoring well and the top of each groundwater probe. Elevations will be measured to an accuracy of 0.01 foot, and the horizontal locations will be measured to an accuracy of 1.0 foot. The surveys will be referenced to the existing grid system used at Fort Wainwright.

## 5.9 Field Screening

Soil samples will be monitored for organic vapors using a PID. For health and safety purposes, measurements will be taken in the breathing zone during field activities, such as drilling and sampling. The PID will also be used to field screen soil samples for the presence of VOCs during soil sampling and drilling operations. Samples will be field screened by warming a closed plastic bag containing the soil sample for 10 to 15 minutes. The PID probe will then be inserted into the opening of the bag and the PID measurement recorded in the field log. When inserting the PID probe into the bag, care will be taken to minimize the loss of volatiles.

### 5.9.1 Field Measurements

Field measurement equipment will be calibrated, maintained, cleaned, and stored in accordance with manufacturers' recommended procedures. The field equipment will be calibrated daily before fieldwork begins, and will be recalibrated during the course of the work day, as required by field conditions or as recommended by the equipment manufacturer. Complete equipment manuals will accompany each instrument in the field. Calibration and maintenance for each instrument will be recorded on the Instrument Calibration Log and Maintenance Log that accompanies each instrument. Field measurement equipment will be kept as clean as possible to maintain accurate performance and to reduce the potential for cross-contamination.

## 5.10 Decontamination Procedures

Equipment that comes in contact with contaminated or potentially contaminated media will be decontaminated following each use.

Drilling, sampling, groundwater probe, and monitoring well installation equipment will be decontaminated as follows:

- Drilling rig augers and drilling rods will be steam cleaned before each use and between borings.
- Split-barrel samplers may be steam cleaned before drilling each boring. Before individual sample collection, the sampler will be washed in an Alconox solution, rinsed with potable water, and rinsed with deionized water. The equipment will then be sprayed with pesticide-grade methanol, then pesticide-grade hexane. Equipment will be allowed to air dry between the methanol and hexane rinses. Finally, the equipment will be rinsed with deionized water. The methanol and hexane waste will be disposed of as described in Section 5.11.
- Exterior surfaces and accessible interior portions of submersible, centrifugal, and bladder pumps will be cleaned before each use. Cleaning will consist of washing in an Alconox solution, rinsing with potable water, and rinsing with deionized water. Inaccessible interior portions of pumps will be flushed with potable water.
- Post-hole diggers, pickaxes, shovels, and hand trowels will be steam cleaned or washed in an Alconox solution, rinsed in potable water, rinsed in deionized water, and

sprayed with pesticide-grade methanol, followed by spraying with pesticide-grade hexane. Equipment will be allowed to air dry between the methanol and hexane rinses. Finally, the equipment will be rinsed with deionized water. The methanol and hexane waste will be disposed of as described in Section 5.11.

- Portions of the electronic interface probe and electronic sounder that contacted groundwater or potentially contaminated surfaces will be washed in an Alconox solution and rinsed first in potable water, then in deionized water.
- Precleaned sample containers will be provided by the analytical laboratory.
- Sampling equipment will be allowed to air dry before reuse.

## 5.11 Investigation-Derived Waste

Drill cuttings will be containerized in 55-gallon, open-top drums. Drill cuttings will not be spread onsite. Contaminated disposable personal protective equipment and other items not suitable for decontamination will be placed in 55-gallon, open-top drums.

A preprinted label covered with protective clear tape will be placed on the side of each drum, and the drum lid and side will be numbered with a paint stick. Site-dependent information, which is required by the Fort Wainwright DPW, will be written on each label in indelible ink. An example of a preprinted drum label is presented in Attachment, Form 9. In addition, each drum will be labeled with an "Investigation-Derived Waste" label provided by the USACE. Once a week, IDW drums will be transported from the drilling locations to a storage location specified by the Fort Wainwright DPW Environmental Division (P.O.C. Ms. Rindgen DeCecco, 353-9949). A log of the contents of each drum will be maintained in the field notebook and a Liquid/Solid DERA IDW Temporary Storage Form (Attachment, Form 10) will be completed.

Final disposal of the IDW is the contractor's responsibility and will be evaluated following receipt of the completed analytical results. If required, samples will be collected from the drums for chemical analyses and forwarded to the project laboratory. If IDW requires turn-in to the Fort Wainwright Hazardous Accumulation Point, Mr. Bob Grey (353-1795) will be consulted so that the appropriate documentation accompanies the waste. Figure A-15 illustrates the process for soil IDW disposal decisions.

Fluids that are produced and/or used during the field investigation (including fluids from the installation, development, and sampling of groundwater probes, monitoring wells, and decontamination fluids) will be contained in 55-gallon drums with bung-type openings. Alternatively, the fluids will temporarily be stored in holding tanks.

IDW water will be treated by passing the water through several 55-gallon canisters of activated carbon with discharge to a temporary holding tank. Each batch of treated water will be sampled and analyzed on a quick-turnaround basis for parameters prescribed in a wastewater discharge permit obtained from the Fairbanks Municipal Utilities System.

# 6.0 SAMPLING EQUIPMENT AND PROCEDURES

Summaries of required samples, chemical analyses, and collection requirements for each source area are presented in Tables A-1 through A-15. Sampling and sample handling procedures are described in the following sections.

The goals for sampling soil, sediment, water, and other materials are to:

- Collect samples that are representative of field conditions.
- Properly identify, preserve, handle, store, and transport samples to maintain their integrity.

The procedures described below are designed to achieve these goals.

## 6.1 Surface Soil

Surface-soil samples will be collected as grab samples from depth intervals of approximately 0 to 12 inches. The samples may be collected using a stainless steel hand trowel, and will be homogenized in decontaminated stainless steel bowls before being placed into sample jars. A hand shovel may used, if necessary, to expose a more fresh or representative surface for sampling. Pertinent observations made during sampling, such as the presence of odor or staining, will be recorded in the field logbook.

## 6.2 Subsurface Soil

Subsurface-soil samples will be collected from borings using a split-barrel drive sampler. Samples will be collected to a maximum depth of about 5 feet below the water table. Samples are anticipated to be collected at ground surface and at depths of 0, 5, 10, 15, and 20 feet below ground surface. Sample depth increments and frequency may be changed based on professional judgment and observed soil conditions.

In accordance with the USACE's ER 1110-1-263, sample fractions for laboratory analyses of VOCs and GRO will be retrieved from the split-barrel sampler first to minimize aeration, and will be packed into sample jars with no headspace. Volatile samples will be collected before homogenization. Following descriptive logging, the remaining quantity of sample will be homogenized in a stainless steel bowl and placed in remaining sample containers. VOC field screening will be conducted for each sample by filling a recloseable plastic bag approximately 1/3 full, placing the bag in a warm area for 10 to 15 minutes, inserting the probe of a photoionization detector (PID) into the headspace of the bag, and recording the resultant PID reading. Other observations made during sampling, such as odor or staining, will be recorded in the field logbook.

Sampling equipment will be decontaminated between sampling locations as described in Section 5.10. Following decontamination, sampling equipment will be stored in plastic bags or wrapped in aluminum foil sheeting.

## 6.3 Groundwater

### Groundwater Probes

Before the start of purging or sampling, the static groundwater level and total depth of the probe will be measured relative to the top of the probe (the elevation reference point). Water level and depth will be measured to the nearest 0.01 foot using an electronic sounder or a weighted measuring tape. The measurement data will be recorded on a Groundwater Sampling Data Form (Attachment, Form 6). If free product is present in the probe, no sample will be collected. Observations will be recorded in the field logbook.

Groundwater probe purging and sampling will be accomplished using an inertial pump consisting of 3/8-inch-diameter polytetrafluoroethylene (PTFE) tubing equipped with a foot valve. Dedicated tubing and a foot valve will be installed for sampling at each probe location. The intake end

of the sample tubing will be placed at approximately the midpoint of the screen section. The following protocol will then be followed:

- Purge an approximate 20 probe volumes using the inertial pump.
- Collect a sample to measure the field parameters of pH, specific conductance, temperature, dissolved oxygen (DO), and turbidity.
- If the turbidity is less than 200 nephelometric turbidity units (NTUs), collect groundwater samples in appropriate sample containers using the inertial bailer.
- If the turbidity is greater than 200 NTUs, purge 10 additional probe volumes.
- Collect another sample to measure the field parameters of pH, specific conductance, temperature, DO, and turbidity.
- Collect groundwater samples in appropriate sample containers from the discharge line of the inertial pump.

Purge water and decontamination water will be collected for disposal as described in Section 5.11.

### Monitoring Wells

Immediately before purging, an electronic sounder will be used to measure the static groundwater level and the total depth of the well relative to the top of the polyvinyl chloride (PVC) well casing (the elevation reference point). Water-level and depth measurements will be estimated to the nearest 0.01 foot. Measurement data will be recorded on a Groundwater Sampling Data Form (Attachment, Form 6). If free product is present in the well, product thickness will be measured using an interface probe.

Whenever feasible, wells expected to be uncontaminated will be sampled first, followed by wells with increasing levels of contamination. Wells will be sampled following the stabilization of certain groundwater parameters during the purging process. A minimum of 5 well-casing volumes of groundwater will be purged from each well using a pump or bailer. Groundwater parameters measured during purging will consist of specific conductance, temperature, pH, DO, oxidation/reduction potential (REDOX), and turbidity. Water quality will be considered stabilized and acceptable for sampling when the following occur:

- pH varies by less than 0.1 pH unit in three consecutive samples;
- Temperature varies by less than 0.5°C in three consecutive samples;
- Conductivity varies by less than 5 percent in three consecutive samples;
- DO varies by less than 10 percent in three consecutive samples;
- REDOX varies by less than 10 percent in three consecutive samples;
- Turbidity is less than 25 NTUs.

Wells that recharge extremely slowly will be purged dry, allowed to recharge to static levels, then purged once again before sampling. If 5 casing volumes cannot be removed within 4 hours, the total volume of water purged will be measured and recorded, and the well will be sampled after sufficient recharge (sufficient to collect a sample) has occurred. If a pump is used, low flow rates (approximately 100 milliliters per minute) will be maintained to minimize volatilization of organic compounds and to reduce turbidity. Sampling equipment will be decontaminated between sampling events and stored in plastic bags or wrapped in aluminum foil sheeting to prevent accidental contamination. To avoid potential contamination from contact with the ground, purging and sampling equipment will be placed on clean polyethylene film adjacent to the well head.

Under circumstances where generalized groundwater sampling information is desired, micropurging of the wells may serve as an alternative (or option) to conventional purging. The advantage of using micropurging is to reduce sampling time and the volume of purge water generated. Micropurging is based on the premise that groundwater moves through the screened portion of a well with little interaction or mixing with

stagnant water in the overlying casing (Kearl, 1994). Purging will be accomplished using an inertial bailer. The pump intake will be placed at approximately the midpoint of the probe screen. The discharge line will then be micropurged by bailing approximately 2 line volumes of water.

If a monitoring well should contain measurable free product, a sample containing as much product as practical will be collected for analysis as described in Section 6.7. Wells containing free product will not be purged or sampled for other analytes.

Samples for lead analyses will be filtered in the field using a 0.45-micron filter.

Observations made during sampling, such as odor or sheen, will be recorded in the field logbook.

## 6.4 Sediment

Sediment will be collected from the Chena River banks and from several river channel transects. A transect, as defined here, is a line of samples that runs across the river channel perpendicular to the river flow direction. A sampling transect will consist of five sediment samples collected approximately an equal distance apart: the first sample will be collected near the south riverbank; the second, third, and fourth samples will be collected from the river channel; and the fifth sample will be collected near the north riverbank. To control sample locations, a marked rope or similar distance measuring device will be extended across the river between location points established by survey. River depth may exceed 5 feet in places; therefore, use of a power boat is anticipated for collection of the river channel samples.

Sediment located above water (i.e., riverbank sediment) will be collected as grab samples from about 3 to 6 inches below the sediment surface using a stainless steel hand trowel or similar implement. Sediment located below water (i.e., river channel sediment) may vary from sand to coarse gravel. As a result, sediment will be collected as grab samples from about 0 to 6 inches below the sediment/water interface using a bottom-sampling dredge. This type of dredge sampler is designed to be effective in collecting sediment from a variety of bottom conditions. If the channel bottom proves too rocky for sediment collection using the sampling dredge, a commercial diving service may be employed.

Following retrieval, samples will be placed in appropriate sample containers in a manner that minimizes aeration of the samples. Samples will be logged and prepared for shipment to the laboratory as described in Section 4.0. Pertinent observations made during sampling, such as odor or sheen, will be recorded in the field logbook.

Sediment sample collection will begin at the farthest downstream transect and proceed upstream to prevent potential adverse disturbances or cross-contamination at sample locations caused by upstream sampling activities. Similarly, along each transect, collocated surface-water samples (see Section 6.5) will be collected before collecting sediment samples to avoid potential cross-contamination of the water samples.

## 6.5 Surface Water

Surface-water samples from the Chena River will be collected using a depth-integrated sampler (for samples near the bottom), or as grab samples (for samples near the surface). Samples from near the surface will be collected by fully immersing sample containers in the water, taking care to avoid or minimize aeration. For the deeper waters of the river channel (possibly in excess of 5 feet deep), a power boat will be used as the sampling platform. A depth-integrated sampler will be used to collect a water sample from within about 2 inches of the channel bottom. Surface-water samples will be collocated with the Chena River sediment samples as shown on Figure A-6.

Surface-water field measurements of pH, specific conductance, DO, and temperature will be recorded before sample collection. Sampling will begin at the sample transect farthest downstream to minimize possible disturbances from upstream sample locations. Vials for collection of VOCs will be filled first. Observations made during

sampling, such as odor or sheen, will be recorded in the field logbook.

## 6.6 Tar

Several drums of tar found near portions of the south bank of the Chena River will be sampled for analyses. The consistency of the tar is presently unknown, but is likely to be pliant. The tar may be firm to soft depending on ambient temperature.

Following drum opening, a fresh sampling surface will be exposed by removing 3 to 6 inches of tar. If the tar is soft, samples will be collected using stainless steel spoons or trowels to transfer the tar into sample containers. If the tar is firm, hand-driven tools will be used.

## 6.7 Petroleum Product

Petroleum product samples will be collected from free-product plumes using disposable bailers. The color and odor of the product will be recorded in a field logbook. Before sampling, the product thickness in the well or probe will be measured using an interface probe.

# 7.0 SAMPLE HANDLING AND ANALYSIS

Laboratory analyses to be performed in support of OU 5 RI/FS activities will be performed by onsite and offsite laboratories. Offsite laboratory analyses will be conducted at a USACE-validated laboratory familiar with the application of CERCLA-approved and USACE analytical protocols. Data deliverables and analytical methods selected for use during the program have been tailored to meet program objectives and to support field activities while providing results of sufficient quality to meet the intended data use. Onsite laboratory analyses will be performed at a USACE-certified laboratory in accordance with the analytical requirements stipulated in the QAPjP (Appendix B) for screening data with definitive confirmation. These analyses will be used to indicate the presence of contamination, and to guide the selection of additional soil borings and groundwater sampling locations. The analytical program for subsequent analyses will be decided based on a review of initial onsite laboratory analysis results.

## 7.1 Sample Handling and Documentation

As samples are collected for laboratory analyses, they will be recorded on chain-of-custody forms, which will be relinquished to the project chemist when the samples are delivered to the laboratory. On receipt, the project chemist will log the samples in a bound logbook, sign the chain-of-custody form, and store the samples at a temperature of 4°C in a secured cooler.

## 7.2 Analyses

The laboratory will be equipped to analyze soil and water samples for all required analytes listed in the QAPjP. Analytical methods will be provided in standard operating procedures (SOPs) before the start of fieldwork. Analyses will be performed under the supervision of an experienced chemist.

## 7.3 Calibration Procedures

The analytical instruments will be calibrated for target analytes in accordance with the required analytical method. Initial calibrations, calibration factors, the percent relative standard deviation, and the relative percent difference will be performed and calculated in accordance with specific methods for the target analytes. Calculations will be recorded in the analytical logbook.

The media to be sampled during the OU 5 RI/FS include surface and subsurface soil, groundwater, surface water, tar, sediment, and petroleum product. The analytical methods to be used are as follows:

- DRO will be analyzed by gas chromatography (GC) using the ADEC modification of EPA Method SW-8100.
- GRO will be analyzed by GC using the ADEC modification of EPA Method SW-8015.
- Fuel identification and quantitation will be analyzed by GC using the USACE modification of EPA Method SW-8015.
- VOCs will be analyzed by GC/mass spectrometry (MS) using EPA Method SW-8260. VOCs in tar will be analyzed by GC/MS using EPA Method 1624.
- SVOCs will be analyzed by GC/MS using EPA Method SW-8270. SVOCs in tar will be analyzed by GC/MS using EPA Method 1624.
- Dioxins and furans will be analyzed by GC/MS using EPA Method SW-8290.
- PCBs/organochlorine pesticides will be analyzed by GC using EPA Method SW-8080.
- Organophosphorous pesticides will be analyzed by GC/MS using EPA Method SW-8140.

- Metals will be extracted (acid digestion) by EPA Method SW-3050. Analyses will be as follows:
  - Arsenic - graphite furnace atomic absorption (GFAA) using EPA Method SW-7060.
  - Mercury - cold vapor atomic absorption (CVAA) using EPA Method SW-7470.
  - Selenium - GFAA using EPA Method SW-7740.
  - Lead - GFAA using EPA Method SW-7421.
  - Barium, cadmium, chromium, vanadium, and silver - inductively coupled plasma (ICP) using EPA Method SW-6010.
- TOC will be analyzed using modified American Society for Testing and Materials (ASTM) Method D 4129-82M.
- Soil nutrients will be analyzed as follows: Nitrogen as ammonia will be analyzed by EPA Method 350.2. Nitrogen as nitrate/nitrite will be analyzed by EPA Method 353.2. Total Kjeldahl nitrogen will be analyzed by EPA Method 351.3 modified. Orthophosphate will be analyzed by EPA Method 365.2.
- Microbial populations will be enumerated using the specific heterotrophic degrader population analysis by most probable number method.
- Physical soil properties will be measured using ASTM methods. Particle size will be measured using ASTM Methods D 421 and D 422; specific gravity of soil solids will be measured using ASTM Methods D 854 and C 127; and moisture content will be measured using ASTM Method D 2217.
- Physical properties of petroleum products will be measured using ASTM methods. Specific gravity will be measured using ASTM Method D 287, and viscosity will be measured using ASTM Method D 445.

# 8.0 REFERENCES


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# TABLES

**Table A-1. Summary of Investigation Samples for the West Section, Former Quartermaster's Fueling System Source Area**

| Type of Sample | Number of Samples | Turnaround Time | Analyses | Location/Rationale |
|---|---|---|---|---|
| Surface Soil | 55 | Quick<br>Normal | DRO, GRO, VOCs, SVOCs,<br>PSA, MC, SpGr, TOC, SN, SHD | Samples will be collected from 0- to 12-inch depths at locations around the former aboveground storage tanks (ASTs), dispensing islands, loading stands, and other areas where surface releases of contaminants may have occurred. Samples will be located using a systematic grid to provide 80 percent confidence for detection of circular-shaped contaminated areas 25 feet or larger in diameter. |
| Subsurface Soil | 150 | Quick<br>Normal | DRO, GRO, VOCs, SVOCs,<br>PSA, MC, SpGr, TOC, SN, SHD | Samples will be collected from as many as 30 borings at contaminated locations identified during initial surface-soil sampling. Sampling intervals and boring depths are described in Section 3.1.2 of the field sampling plan (FSP). |
| Subsurface Soil | 100 | Normal | DRO, GRO, VOCs, SVOCs, PSA, MC, SpGr | Samples will be collected from as many as 20 borings located along identified fuel product lines where fuel releases may have occurred, and along utility lines that may have served as conduits for migrating contaminants following releases. Sampling intervals and boring depths are described in Section 3.1.2 of the FSP. |
| Groundwater | 50 | Quick | DRO, GRO, VOCs, SVOCs, lead | Samples will be collected from as many as 50 existing probes and wells. Samples will allow evaluation of the extent of contaminants and will provide a basis for siting additional probes. |
| Groundwater | 186 | Quick | DRO, GRO, VOCs, SVOCs | Samples will be collected from initial 16 deep probes. New probes will be located on a 200-foot grid extending from near the north bank of the Chena River to about 600 feet north of the river. Samples will be collected from each probe at 20, 30, 40, 50, 60, and 70 feet below the ground surface. Samples will be used to evaluate the vertical and horizontal extents of contamination north of the river. As many as 15 additional probes will be installed to further estimate the extent of contamination encountered during initial probe sampling. |
| Groundwater | 55 | Quick | DRO, GRO, VOCs, SVOCs | Samples will be collected from as many as 20 new shallow probes and 7 deep probes. Shallow probes will be installed to approximately 20 feet below ground surface. Deep probes will be installed to depths of about 30 to 70 feet below ground surface. New probe depths and locations will be based upon initial quick turnaround sampling. The probes will be placed on the south side of the Chena River to evaluate the extent of contamination. |

**Table A-1. Summary of Investigation Samples for the West Section, Former Quartermaster's Fueling System Source Area (continued)**

| Type of Sample | Number of Samples | Turnaround Time | Analyses | Location/Rationale |
|---|---|---|---|---|
| Groundwater | 10 | Normal | DRO, GRO, VOCs, SVOCs | Samples will be collected from as many as 10 new groundwater monitoring wells. Wells will be sited based on initial sampling to monitor existing contaminant plumes. |
| Bank Sediment | 20 | Quick | DRO, GRO, VOCs, SVOCs | Samples will be collected every 200 feet along the north and south banks of the Chena River. Samples will be used to assess the effects of previous releases and potential migration of contaminants into the river. |
| Transect Sediment | 15 | Normal | DRO, GRO, VOCs, SVOCs, PCBs/ pesticides, OPP, dioxins/furans, metals PSA, SpGr, TOC, SN, SHD | Samples will be collected from locations at three transects of the Chena River channel. Transect locations will be based upon previous quick turnaround sampling. Samples will be used to assess the effects of previous releases and the potential migration of contaminants into the river. |
| Surface Water | 24 | Normal | DRO, GRO, VOCs, SVOCs, PCBs/ pesticides, OPP, metals | Samples will be collected from locations that coincide with locations of sediment sampling of the Chena River (see Figure A-6). Samples will be used to assess the effects of previous releases and the potential migration of contaminants into the river. |
| Tar | 4 | Quick | DRO, GRO, VOCs, SVOCs, TCLP VOCs, TCLP SVOCs | Samples will be collected from four drums at locations along the Chena River bank. Samples will be used to evaluate the leachability of contaminants from the tar to groundwater, river water, and bank sediment. |
| Petroleum Product | 4 | Quick | USACE FIQ, SpGr, Viscosity | Samples will be collected from two separate free-product plumes (three samples from the large plume and one sample from the small plume). Samples will be used to evaluate interim remedial actions or removals. |

DRO Diesel-range organics
FIQ Fuel identification and quantitation
GRO Gasoline-range organics
MC Moisture content
OPP Organophosphorous pesticides
PSA Particle-size analysis
PCBs Polychlorinated biphenyls
SHD Specific heterotrophic degrader
SN Soil nutrients
SVOCs Semivolatile organic compounds
SpGr Specific gravity
TOC Total organic carbon
TCLP Toxicity characteristic leaching procedure
VOCs Volatile organic compounds
USACE U.S. Army Corps of Engineers

## Table A-2. West Section, Former Quartermaster's Fueling System Source Area Sample Collection Summary - Soil

| Parameter | Analytical Method[a] | Maximum Number of Samples | Quality Assurance Samples | Quality Control Samples | Container | Preservative | Maximum Holding Times |
|---|---|---|---|---|---|---|---|
| Gasoline-Range Organics | 8015M[b] | 305 | 31 | 31 | Two 2-oz. glass septa-lidded | No headspace 4°C | 14 days to analysis |
| Diesel-Range Organics | 8100M[b] | 305 | 31 | 31 | One 4-oz. glass | 4°C | 14 days to extraction 40 days to analysis |
| Volatile Organic Compounds | 8260 | 305 | 31 | 31 | Two 2-oz. glass septa-lidded | No headspace 4°C | 14 days to analysis |
| Semivolatile Organic Compounds | 8270 | 305 | 31 | 31 | One 8-oz. glass | 4°C | 14 days to analysis |
| Total Organic Carbon | D4129-82M[c] | 56 | 6 | 6 | One 4-oz. glass | 4°C | 14 days to extraction 40 days to analysis |
| Soil Nutrients | | | | | | | |
| Nitrogen as ammonia | 350.2[d] | 56 | 6 | 6 | One 4-oz. glass | 4°C | 28 days |
| Nitrate/nitrite | 353.2[d] | 56 | 6 | 6 | One 4-oz. glass | 4°C | 28 days |
| Kjeldahl nitrogen | 351.3[d] | 56 | 6 | 6 | One 4-oz. glass | 4°C | 28 days |
| Orthophosphate | 365.2[d] | 56 | 6 | 6 | One 4-oz. glass | 4°C | 48 hours |
| Heterotrophic Plate Count | Specific Heterotrophic Degrader[e] | 56 | NA | NA | One 4-oz. glass | 4°C | 48 hours |

°C Degrees Celsius
NA Not applicable

* Duplicate samples will be 10 percent of the total samples.
** Samples for total organic carbon, soil nutrients, and heterotrophic plate count will be about 10 percent of the total surface-soil samples, and one sample per boring for subsurface soil.

a. Unless otherwise stated, analytical method is from the U.S. Environmental Protection Agency (EPA), 1986, *Test method for evaluation of solid waste, physical/chemical methods, SW-846*, 3rd edition, amended through update I, July 1992.
b. Alaska Department of Environmental Conservation modification.
c. American Society of Testing and Materials (ASTM) Method.
d. EPA methods for chemical analysis of water and wastewater, EPA-600/4-79-020, 1979.
e. Specific heterotrophic degrader population analysis by most probable number method.

## Table A-3. West Section, Former Quartermaster's Fueling System Source Area Sample Collection Summary - Groundwater

| Parameter | Analytical Method[a] | Maximum Number of Samples | Quality Assurance Samples | Quality Control Samples | Container[b] | Preservative | Maximum Holding Times |
|---|---|---|---|---|---|---|---|
| Gasoline-Range Organics | 8015M[c] | 301 | 30<br>16 rinsate<br>100 trip | 30<br>16 rinsate<br>100 trip | Three 40-ml glass septa-lidded | No headspace<br>HCl to pH<2<br>4°C | 14 days to analysis |
| Diesel-Range Organics | 8100M[c] | 301 | 30<br>16 rinsate | 30<br>16 rinsate | One 1-liter amber glass[d] | HCl to pH<2<br>4°C | 14 days to extraction<br>40 days to analysis |
| Volatile Organic Compounds | 8260 | 301 | 30<br>16 rinsate<br>100 trip | 30<br>16 rinsate<br>100 trip | Three 40-ml glass septa-lidded | No headspace<br>HCl to pH<2<br>4°C | 14 days to analysis |
| Semivolatile Organic Compounds | 8270 | 301 | 30<br>16 rinsate | 30<br>16 rinsate | One 1-liter amber glass[d] | 4°C | 14 days to analysis |
| Lead[e] | 7421 | 50 | 5<br>3 rinsate | 5<br>3 rinsate | One 1-liter HDPE | $HNO_3$ to pH<2<br>4°C | 6 months |

°C Degrees Celsius
HCl Hydrochloric acid
HDPE High-density polyethylene
$HNO_3$ Nitric Acid

* Rinsates are 5 percent of the total samples or at least one sample, whichever is greater, for each matrix and method. Duplicates are 10 percent of the total samples. At least one trip blank per cooler must be provided for volatile organic compounds.

a. Unless otherwise stated, analytical method is from the U.S. Environmental Protection Agency (EPA), 1986, *Test method for evaluation of solid waste, physical/chemical methods, SW-846*, 3rd edition, amended through update I, July 1992.
b. Glass containers have polytetrafluoroethylene-lined lids.
c. Alaska Department of Environmental Conservation modification.
d. For 10 percent of the water samples, include two extra 1-liter bottles per laboratory for matrix spike/matrix spike duplicate.
e. Groundwater samples will be analyzed for dissolved lead (filtered samples).

## Table A-4. West Section, Former Quartermaster's Fueling System Source Area Sample Collection Summary - Sediment

| Parameter | Analytical Method[a] | Number of Samples | Quality Assurance Samples | Quality Control Samples | Container | Preservative | Maximum Holding Times |
|---|---|---|---|---|---|---|---|
| Gasoline-Range Organics | 8015M[b] | 35 | 4 | 4 | Two 2-oz. glass septa-lidded | No headspace 4°C | 14 days to analysis |
| Diesel-Range Organics | 8100M[b] | 35 | 4 | 4 | One 4-oz. glass | 4°C | 14 days to extraction 40 days to analysis |
| Volatile Organic Compounds | 8260 | 35 | 4 | 4 | Two 2-oz. glass septa-lidded | No headspace 4°C | 14 days to analysis |
| Polychlorinated Biphenyls/ Organochlorine Pesticides | 8080 | 15 | 2 | 2 | One 4-oz. glass | 4°C | 14 days to extraction 40 days to analysis |
| Organophosphorous Pesticides | 8140 | 15 | 2 | 2 | One 4-oz. glass | 4°C | 14 days to extraction 40 days to analysis |
| Semivolatile Organic Compounds | 8270 | 35 | 4 | 4 | One 4-oz. glass | 4°C | 7 days to extraction 40 days to analysis |
| Dioxins/Furans | 8290 | 15 | 2 | 2 | Two 8-oz. glass | 4°C | 14 days to extraction 40 days to analysis |
| Metals[c] | | 15 | 2 | 2 | One 8-oz. glass | 4°C | 28 days for mercury 6 months for all others |
| Arsenic, Barium | 7060/6010 | | | | | | |
| Cadmium, Chromium | 6010/6010 and 7197 | | | | | | |
| Lead, Mercury | 7421/7470 | | | | | | |
| Selenium, Silver | 7740/6010 | | | | | | |
| Soil Nutrients | | | | | | | |
| Nitrogen as ammonia | 350.2[d] | 4 | 1 | 1 | One 4-oz. glass | 4°C | 28 days |
| Nitrate/nitrite | 353.2[d] | 4 | 1 | 1 | One 4-oz. glass | 4°C | 28 days |
| Kjeldahl nitrogen | 351.3[d] | 4 | 1 | 1 | One 4-oz. glass | 4°C | 28 days |
| Orthophosphate | 365.2[d] | 4 | 1 | 1 | One 4-oz. glass | 4°C | 48 hours |
| Heterotrophic Plate Count | Specific Heterotrophic Degrader[e] | 4 | NA | NA | One 4-oz. glass | 4°C | 48 hours |

°C Degrees Celsius

* Duplicates are 10 percent of the total samples.

a. Unless otherwise stated, analytical method is from the U.S. Environmental Protection Agency (EPA), 1986, *Test method for evaluation of solid waste, physical/chemical methods, SW-846*, 3rd edition, amended through update I, July 1992.

b. Alaska Department of Environmental Conservation modification.

c. Metals analyses will consist of an inductively coupled plasma scan for barium, cadmium, chromium, and silver; graphite furnace atomic absorption (GFAA) for arsenic, lead, and selenium; and cold vapor atomic absorption (CVAA) for mercury.

d. EPA methods for chemical analysis of water and wastewater, EPA-600/4-79-020, 1979.

e. Specific heterotrophic degrader population analysis by most probable number method.

## Table A-5. West Section, Former Quartermaster's Fueling System Source Area Sample Collection Summary - Tar

| Parameter | Analytical Method[a] | Number of Samples | Quality Assurance Samples | Quality Control Samples | Container | Preservative | Maximum Holding Times |
|---|---|---|---|---|---|---|---|
| Gasoline-Range Organics | 8015M[b] | 4 | 1 | 1 | One 2-oz. glass septa-lidded | No headspace 4°C | 14 days to analysis |
| Diesel-Range Organics | 8100M[b] | 4 | 1 | 1 | One 2-oz. glass | 4°C | 14 days to extraction 40 days to analysis |
| Volatile Organic Compounds | 1624[c] | 4 | 1 | 1 | One 2-oz. glass septa-lidded | No headspace 4°C | 14 days to analysis |
| Semivolatile Organic Compounds | 1625[c] | 4 | 1 | 1 | One 2-oz. glass | 4°C | 7 days to extraction 40 days to analysis |
| TCLP/Volatile Organic Compounds | 8260 | 4 | 1 | 1 | One 2-oz. glass septa-lidded | No headspace 4°C | 14 days to analysis |
| TCLP/Semivolatile Compounds | 8270 | 4 | 1 | 1 | One 2-oz. glass | 4°C | 14 days to analysis |

°C Degrees Celsius
TCLP Toxicity characteristic leaching procedures

* Duplicates are 10 percent of the total samples.

a. Unless otherwise stated, analytical method is from the U.S. Environmental Protection Agency (EPA), 1986, *Test method for evaluation of solid waste, physical/chemical methods, SW-846,* 3rd edition, amended through update I, July 1992.
b. Alaska Department of Environmental Conservation modification.
c. Analytical method by isotope dilution, GC/MS, from EPA office of water regulations and standards, industrial technology division, June 1989.

## Table A-6. West Section, Former Quartermaster's Fueling System Source Area Sample Collection Summary - Surface Water

| Parameter | Analytical Method[a] | Maximum Number of Samples | Quality Assurance Samples | Quality Control Samples | Container[b] | Preservative | Maximum Holding Times |
|---|---|---|---|---|---|---|---|
| Gasoline-Range Organics | 8015M[c] | 24 | 3<br>2 rinsate<br>8 trip | 3<br>2 rinsate<br>8 trip | Three 40-ml glass septa-lidded | No headspace<br>HCl to pH<2<br>4°C | 14 days to analysis |
| Diesel-Range Organics | 8100M[c] | 24 | 3<br>2 rinsate | 3<br>2 rinsate | One 1-liter amber glass | HCl to pH<2<br>4°C | 14 days to extraction<br>40 days to analysis |
| Volatile Organic Compounds | 8260 | 24 | 3<br>2 rinsate<br>8 trip | 3<br>2 rinsate<br>8 trip | Three 40-ml glass septa-lidded | No headspace<br>HCl to pH<2<br>4°C | 14 days to analysis |
| Polychlorinated Biphenyls/ Organochlorine Pesticides | 8080 | 24 | 3<br>2 rinsate | 3<br>2 rinsate | One 1-liter amber glass[d] | 4°C | 14 days to extraction<br>40 days to analysis |
| Organophosphorous Pesticides | 8140 | 24 | 3<br>2 rinsate | 3<br>2 rinsate | One 1-liter amber glass[d] | 4°C | 14 days to extraction<br>40 days to analysis |
| Semivolatile Organic Compounds | 8270 | 24 | 3<br>2 rinsate | 3<br>2 rinsate | One 1-liter amber glass[d] | 4°C | 7 days to extraction<br>40 days to analysis |
| Metals[e]<br>Arsenic, Barium<br>Cadmium, Chromium<br>Lead, Mercury<br>Selenium, Silver | <br>7060/6010<br>6010/6010<br>7421/7470<br>7740/6010 | 24 | 3<br>2 rinsate | 3<br>2 rinsate | One 1-liter HDPE | $HNO_3$ to pH<2<br>4°C | 28 days for mercury in glass, 6 months for all others |

°C Degrees Celsius
HCl Hydrochloric acid
HDPE High-density polyethylene
$HNO_3$ Nitric acid

* Rinsates are 5 percent of the total samples or at least one sample, whichever is greater, for each matrix and method. Duplicates are 10 percent of the total samples. At least one trip blank per cooler must be provided for volatile organic compounds.

a. Unless otherwise stated, analytical method is from the U.S. Environmental Protection Agency (EPA), 1986, *Test method for evaluation of solid waste, physical/chemical methods, SW-846*, 3rd edition, amended through update I, July 1992.
b. All glass containers have polytetrafluoroethylene-lined lids.
c. Alaska Department of Environmental Conservation modification.
d. For 10 percent of the water samples, include two extra 1-liter bottles per laboratory for matrix spike/matrix spike duplicate.
e. Surface-water samples will be analyzed for total metals (unfiltered samples) and dissolved metals (filtered samples).

## Table A-7. West Section, Former Quartermaster's Fueling System Source Area Sample Collection Summary - Petroleum Product

| Parameter | Analytical Method[a] | Number of Samples | Quality Assurance Samples | Quality Control Samples | Container[b] | Preservative | Maximum Holding Times |
|---|---|---|---|---|---|---|---|
| Fuel Identification and Quantitation | 8015M[b] | 4 | 1 | 1 | Three 40-ml glass septa-lidded | No headspace<br>HCl to pH<2<br>4°C | 14 days to analysis |
| Specific Gravity | D 287[c] | 4 | NA | NA | One 250-ml amber glass | NA | NA |
| Viscosity | D 445[c] | 4 | NA | NA | One 20-ml amber glass | NA | NA |

°C Degrees Celsius
HCl Hydrochloric acid
NA Not applicable

* Duplicates are 10 percent of the total samples.

a. Unless otherwise stated, analytical method is from the U.S. Environmental Protection Agency (EPA), 1986, *Test method for evaluation of solid waste, physical/chemical methods, SW-846*, 3rd edition, amended through update I, July 1992.
b. U.S. Army Corps of Engineers modification.
c. American Society for Testing and Materials method.

## Table A-8. Summary of Investigation Samples for the East Section, Former Quartermaster's Fueling System Source Area

| Type of Sample | Number of Samples | Turnaround Time | Analyses | Location/Rationale |
|---|---|---|---|---|
| Surface Soil | 50 | Quick<br>Normal | DRO, GRO, VOCs, SVOCs, PSA, MC, SpGr, TOC, SN, SHD | Samples will be collected from 0- to 12-inch depths at locations around the former aboveground storage tanks (ASTs) in the vicinity of Buildings 1565 and 1575 where surface releases of fuel may have occurred. Samples will be located using a systematic grid to provide 80 percent confidence for detection of circular-shaped contaminated areas of 25 feet or larger in diameter |
| Surface Soil | 10 | Quick | DRO, GRO, VOCs, SVOCs | Samples will be collected from 6- to 24-inch depths in the potential 1,1,1-trichloroethane (1,1,1-TCA) spill location west of Building 1565. Samples will be located on a systematic grid. |
| Surface Soil | 10 | Quick | DRO, GRO, VOCs, SVOCs | Samples will be collected from 6- to 24-inch depths in the potential TCE spill location east of Building 1060. Samples will be located on a systematic grid. |
| Subsurface Soil | 165 | Quick<br>Normal | DRO, GRO, VOCs, SVOCs, PSA, MC, SpGr, TOC, SN, SHD | Samples will be collected from as many as 33 borings at contaminated locations identified during initial surface-soil sampling. Sampling intervals and boring depths are described in Section 3.2.2 of the FSP. |
| Subsurface Soil | 50 | Quick | DRO, GRO, VOCs, SVOCs | Samples will be collected from as many as 10 borings located along identified fuel product lines where fuel releases may have occurred and from along utility lines that may have served as conduits for migrating fuel following releases. Sampling intervals and boring depths are described in Section 3.2.2 of the FSP. |
| Groundwater | 50 | Quick | DRO, GRO, VOCs, SVOCs, lead | Samples will be collected from as many as 50 existing probes and wells. Samples will allow evaluation of the extent of contaminants and will provide a basis for siting additional probes. |
| Groundwater | 126 | Quick | DRO, GRO, VOCs, SVOCs | Samples will be collected from initial 11 deep probes. New probes will be placed on a 200-foot grid extending from near the north bank of the Chena River to about 600 feet north of the river. Samples will be collected from each probe at 20, 30, 40, 50, 60, and 70 feet below the ground surface. Samples will be used to evaluate the vertical and horizontal extents of contaminants north of the Chena River. As many as 10 additional deep probes will be placed to estimate the extent of contamination encountered in the initial probes. |

## Table A-8. Summary of Investigation Samples for the East Section, Former Quartermaster's Fueling System Source Area (continued)

| Type of Sample | Number of Samples | Turnaround Time | Analyses | Location/Rationale |
|---|---|---|---|---|
| Groundwater | 90 | Quick | DRO, GRO, VOCs, SVOCs | Samples will be collected from as many as 30 new shallow probes and 10 deep probes. Shallow probes will be installed to approximately 20 feet below ground surface. Deep probes will be installed to depths of about 30 to 70 feet below ground surface. New probe depths and locations will be located based on initial quick turnaround sampling. The probes will be placed on the south side of the Chena River to evaluate the extent of contamination. |
| Groundwater | 10 | Normal | DRO, GRO, VOCs, SVOCs | Samples will be collected from as many as 10 new groundwater monitoring wells. Wells will be sited based on initial sampling to monitor existing contaminant plumes. |
| Bank Sediment | 24 | Quick | DRO, GRO, VOCs, SVOCs | Samples will be collected every 100 feet along the north and south banks of the Chena River. Samples will be used to assess the effects of previous releases and potential migration of contaminants into the river. |
| Transect Sediment | 10 | Normal | DRO, GRO, VOCs, SVOCs, PCBs/pesticides, dioxins/furans, metals, OPP PSA, SpGr, TOC, SN, SH, SHD | Samples will be collected from two transects of the Chena River. The transect location will be based on previous quick turnaround sampling. |
| Background Sediment | 9 | Normal | DRO, GRO, VOCs, SVOCs, PCBs/pesticides, dioxins/furans, metals, OPP PSA, SpGr, TOC, SN, SH, SHD | Background samples will be collected from the riverbanks and from one transect across the Chena River at an upriver location uninfluenced by contamination. |
| Surface Water | 16 | Normal | DRO, GRO, VOCs, SVOCs, PCBs/pesticides, metals, OPP | Samples will be collected from the Chena River that coincide with locations of sediment sampling of the Chena River (see Figure A-6). Samples will be used to assess the effects of previous releases and potential migration of contaminants into the river. |
| Background Surface Water | 8 | Normal | DRO, GRO, VOCs, SVOCs, PCBs/pesticides, metals, OPP | Background samples will be collected from the Chena River at an upriver location believed to be uninfluenced by contamination. Sample locations will coincide with background sediment locations. |
| Petroleum Product | 1 | Quick | USACE FIQ, SpGr, Viscosity | Samples will be collected from a free-product plume south of Building 1060. Samples will be used to evaluate interim remedial actions or removals. |

DRO Diesel-range organics
FIQ Fuel identification and quantitiation
GRO Gasoline-range organics
MC Moisture content
OPP Organophosphorous pesticides
PSA Particle-size analysis
PCBs Polychlorinated biphenyls
SHD Specific heterotrophic degrader
SN Soil nutrients
SVOCs Semivolatile organic compounds
SpGr Specific gravity
TOC Total organic carbon
TPH Total petroleum hydrocarbons
USACE U.S. Army Corps of Engineers
VOCs Volatile organic compounds

## Table A-9. East Section, Former Quartermaster's Fueling System Source Area Sample Collection Summary - Soil

| Parameter | Analytical Method[a] | Maximum Number of Samples | Quality Assurance Samples | Quality Control Samples | Container | Preservative | Maximum Holding Times |
|---|---|---|---|---|---|---|---|
| Gasoline-Range Organics | 8015M[b] | 345 | 35 | 35 | Two 2-oz. glass septa-lidded | No headspace 4°C | 14 days to analysis |
| Diesel-Range Organics | 8100M[b] | 345 | 35 | 35 | One 4-oz. glass | 4°C | 14 days to extraction 40 days to analysis |
| Volatile Organic Compounds | 8260 | 345 | 35 | 35 | Two 2-oz. glass septa-lidded | No headspace 4°C | 14 days to analysis |
| Semivolatile Organic Compounds | 8270 | 345 | 35 | 35 | One 4-oz. glass | 4°C | 7 days to extraction 40 days to analysis |
| Total Organic Carbon | D4129-82M[c] | 50 | 5 | 5 | One 4-oz. glass | 4°C | 14 days to extraction 40 days to analysis |
| Soil Nutrients | | | | | | | |
| Nitrogen as ammonia | 350.2[d] | 50 | 5 | 5 | One 4-oz. glass | 4°C | 28 days |
| Nitrate/nitrite | 353.2[d] | 50 | 5 | 5 | One 4-oz. glass | 4°C | 28 days |
| Kjeldahl nitrogen | 351.3[d] | 50 | 5 | 5 | One 4-oz. glass | 4°C | 28 days |
| Orthophosphate | 365.2[d] | 50 | 5 | 5 | One 4-oz. glass | 4°C | 48 hours |
| Heterotrophic Plate Count | Specific Heterotrophic Degrader[e] | 50 | NA | NA | One 4-oz. glass | 4°C | 48 hours |

°C Degrees Celsius
NA Not applicable

* Duplicate samples will be 10 percent of the total samples.
** Samples for total organic carbon, soil nutrients, and heterotrophic plate count will be about 10 percent of the total surface soil samples and one sample per boring for subsurface soil.

a. Unless otherwise stated, analytical method is from the U.S. Environmental Protection Agency (EPA), 1986, *Test method for evaluation of solid waste physical/chemical methods, SW-846*, 3rd edition, amended through update I, July 1992.
b. Alaska Department of Environmental Conservation modification.
c. American Society of Testing and Materials (ASTM) Method.
d. EPA methods for chemical analysis of water and wastewater, EPA-600/4-79-020, 1979.
e. Specific heterotrophic degrader population analysis by most probable number method.

## Table A-10. East Section, Former Quartermaster's Fueling Section Source Area Sample Collection Summary - Groundwater

| Parameter | Analytical Method[a] | Maximum Number of Samples | Quality Assurance Samples | Quality Control Samples | Container[b] | Preservative | Maximum Holding Times |
|---|---|---|---|---|---|---|---|
| Gasoline-Range Organics | 8015M[c] | 276 | 28<br>14 rinsate<br>92 trip | 28<br>14 rinsate<br>92 trip | Three 40-ml glass septa-lidded | No headspace<br>HCl to pH<2<br>4°C | 14 days to analysis |
| Diesel-Range Organics | 8100M[c] | 276 | 28<br>14 rinsate | 28<br>14 rinsate | One 1-liter amber glass[d] | HCl to pH<2<br>4°C | 14 days to extraction<br>40 days to analysis |
| Volatile Organic Compounds | 8260 | 276 | 28<br>14 rinsate<br>92 trip | 28<br>14 rinsate<br>92 trip | Three 40-ml glass septa-lidded | No headspace<br>HCl to pH<2<br>4°C | 14 days to analysis |
| Semivolatile Organic Compounds | 8270 | 276 | 28<br>14 rinsate | 28<br>14 rinsate | One 4-oz. glass[d] | 4°C | 7 days to extraction<br>40 days to analysis |
| Lead[e] | 7421 | 50 | 5<br>3 rinsate | 5<br>3 rinsate | One 1-liter HDPE | $HNO_3$ to pH<2<br>4°C | 6 months |

°C Degrees Celsius
HCl Hydrochloric acid
HDPE High-density polyethylene

* Rinsates are 5 percent of the total samples or at least one sample, whichever is greater, for each matrix and method. Duplicates are 10 percent of the total samples. At least one trip blank per cooler must be provided for volatile organic compounds.

a. Unless otherwise stated, analytical method is from the U.S. Environmental Protection Agency (EPA), 1986, *Test method for evaluation of solid waste, physical/chemical methods, SW-846*, 3rd edition, amended through update I, July 1992.
b. Glass containers have polytetrafluoroethylene-lined lids.
c. Alaska Department of Environmental Conservation modification.
d. For 10 percent of the water samples, include two extra 1-liter bottles per laboratory for matrix spike/matrix spike duplicate.
e. Groundwater samples will be analyzed for dissolved lead (filtered samples).

## Table A-11. East Section, Former Quartermaster's Fueling System Source Area Sample Collection Summary - Sediment

| Parameter | Analytical Method[a] | Number of Samples | Quality Assurance Samples | Quality Control Samples | Container | Preservative | Maximum Holding Times |
|---|---|---|---|---|---|---|---|
| Gasoline-Range Organics | 8015M[b] | 43 | 5 | 5 | Two 2-oz. glass septa-lidded | No headspace 4°C | 14 days to analysis |
| Diesel-Range Organics | 8100[b] | 43 | 5 | 5 | One 4-oz. glass | 4°C | 14 days to extraction 40 days to analysis |
| Volatile Organic Compounds | 8260 | 43 | 5 | 5 | Two 2-oz. glass septa-lidded | No headspace 4°C | 14 days to analysis |
| Polychlorinated Biphenyls/ Organochlorine Pesticides | 8080 | 19 | 2 | 2 | One 4-oz. glass | 4°C | 14 days to extraction 40 days to analysis |
| Organophosphorous Pesticides | 8140 | 19 | 2 | 2 | One 4-oz. glass | 4°C | 14 days to extraction 40 days to analysis |
| Semivolatile Organic Compounds | 8270 | 43 | 5 | 5 | One 4-oz. glass | 4°C | 7 days to extraction 40 days to analysis |
| Dioxins/Furans | 8290 | 19 | 2 | 2 | Two 8-oz. glass | 4°C | 14 days to extraction 40 days to analysis |
| Metals[c] | | 19 | 2 | 2 | One 8-oz. glass | 4°C | 28 days for mercury 6 months for all others |
| Arsenic, Barium | 7060/6010 | | | | | | |
| Cadmium, Chromium | 6010/6010 | | | | | | |
| Lead, Mercury | 7421/7470 | | | | | | |
| Selenium, Silver | 7740/6010 | | | | | | |
| Soil Nutrients | | | | | | | |
| Nitrogen as ammonia | 350.2[d] | 2 | 1 | 1 | One 4-oz. glass | 4°C | 28 days |
| Nitrate/nitrite | 353.2[d] | 2 | 1 | 1 | One 4-oz. glass | 4°C | 28 days |
| Kjeldahl nitrogen | 351.3[d] | 2 | 1 | 1 | One 4-oz. glass | 4°C | 28 days |
| Orthophosphate | 365.2[d] | 2 | 1 | 1 | One 4-oz. glass | 4°C | 48 hours |
| Heterotrophic Plate Count | Specific Heterotrophic Degrader[e] | 2 | NA | NA | One 4-oz. glass | 4°C | 48 hours |

°C Degrees Celsius

* Duplicates are 10 percent of the total samples.

a. Unless otherwise stated, analytical method is from the U.S. Environmental Protection Agency (EPA), 1986, *Test method for evaluation of solid waste, physical/chemical methods, SW-846*, 3rd edition, amended through update I, July 1992.
b. Alaska Department of Environmental Conservation modification.
c. Metals analyses will consist of an inductively coupled plasma scan for barium, cadmium, chromium, vanadium, and silver; graphite furnace atomic absorption (GFAA) for arsenic, lead, and selenium; and cold vapor atomic absorption (CVAA) for mercury.
d. EPA methods for chemical analysis of water and wastewater, EPA-600/4-79-020, 1979.
e. Specific heterotrophic degrader population analysis by most probable number method.

## Table A-12. East Section, Former Quartermaster's Fueling System Source Area Sample Collection Summary - Surface Water

| Parameter | Analytical Method[a] | Maximum Number of Samples | Quality Assurance Samples | Quality Control Samples | Container[b] | Preservative | Maximum Holding Times |
|---|---|---|---|---|---|---|---|
| Gasoline-Range Organics | 8015M[c] | 24 | 3<br>2 rinsate<br>8 trip | 3<br>2 rinsate<br>8 trip | Three 40-ml glass septa-lidded | No headspace<br>HCl to pH<2<br>4°C | 14 days to analysis |
| Diesel-Range Organics | 8100M[c] | 24 | 3<br>2 rinsate | 3<br>2 rinsate | One 1-liter amber glass[d] | HCl to pH<2<br>4°C | 14 days to extraction<br>40 days to analysis |
| Volatile Organic Compounds | 8260 | 24 | 3<br>2 rinsate<br>8 trip | 3<br>2 rinsate<br>8 trip | Three 40-ml glass septa-lidded | No headspace<br>HCl to pH<2<br>4°C | 14 days to analysis |
| Polychlorinated Biphenyls/ Organochlorine Pesticides | 8080 | 24 | 3<br>2 rinsate | 3<br>2 rinsate | One 1-liter amber glass[d] | 4°C | 14 days to extraction<br>40 days to analysis |
| Organophosphorous Pesticides | 8140 | 24 | 3<br>2 rinsate | 3<br>2 rinsate | One 1-liter amber glass[d] | 4°C | 14 days to extraction<br>40 days to analysis |
| Semivolatile Organic Compounds | 8270 | 24 | 3<br>2 rinsate | 3<br>2 rinsate | One 1-liter amber glass[d] | 4°C | 7 days to extraction<br>40 days to analysis |
| Metals[e]<br>Arsenic, Barium<br>Cadmium, Chromium<br>Lead, Mercury<br>Selenium, Silver | <br>7060/6010<br>6010/6010<br>7421/7470<br>7740/6010 | 24 | 3<br>2 rinsate | 3<br>2 rinsate | One 1-liter HDPE | $HNO_3$ to pH<2<br>4°C | 28 days for mercury in glass, 6 months for all others |

°C Degrees Celsius
HCl Hydrochloric acid
HDPE High-density polyethylene
$HNO_3$ Nitric acid

* Rinsates are 5 percent of the total samples or at least one sample, whichever is greater, for each matrix and method. Duplicates are 10 percent of the total samples. At least one trip blank per cooler must be provided for volatile organic compounds.

a. Unless otherwise stated, analytical method is from the U.S. Environmental Protection Agency (EPA), 1986, *Test method for evaluation of solid waste, physical/chemical methods, SW-846*, 3rd edition, amended through update I, July 1992.
b. Glass containers have polytetrafluoroethylene-lined lids.
c. Alaska Department of Environmental Conservation modification.
d. For 10 percent of the water samples, include two extra 1-liter bottles per laboratory for matrix spike/matrix spike duplicate.
e. Surface-water samples will be analyzed for total metals (unfiltered samples) and dissolved metals (filtered samples).

## Table A-13. East Section, Former Quartermaster's Fueling System Source Area Sample Collection Summary - Petroleum Product

| Parameter | Analytical Method[a] | Number of Samples | Quality Assurance Samples | Quality Control Samples | Container | Preservative | Maximum Holding Times |
|---|---|---|---|---|---|---|---|
| Fuel Identification and Quantitation | 8015M[b] | 1 | 1 | 1 | Three 40-ml glass septa-lidded | No headspace<br>HCl to pH<2<br>4°C | 14 days to analysis |
| Specific Gravity | D 287[c] | 1 | NA | NA | One 250-ml amber glass | NA | NA |
| Viscosity | D 445[c] | 1 | NA | NA | One 20-ml amber glass | NA | NA |

°C Degrees Celsius
HCl Hydrochloric acid
NA Not applicable

* Duplicates are 10 percent of the total samples.

a. Unless otherwise stated, analytical method is from the U.S. Environmental Protection Agency (EPA), 1986, *Test method for evaluation of solid waste, physical/chemical methods, SW-846*, 3rd edition, amended through update I, July 1992.
b. U.S. Army Corps of Engineers modification.
c. American Society for Testing and Materials method.

## Table A-14. Summary of Investigation Samples for Open Burning/Open Detonation Source Area

| Type of Sample | Number of Samples | Turnaround Time | Analyses | Location/Rationale |
|---|---|---|---|---|
| Surface Soil | 8 | Quick<br>Normal | Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium, Silver, Vanadium, PSA, MC, SpGr | Eight samples will be collected from 3- to 6-inch depths in and around the impact craters at locations previously sampled by the U.S. Army Corps of Engineers on September 1, 1994. |
| Background Surface Soil | 2 | Quick | Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium, Silver, Vanadium | Background samples will be collected from 3- to 6-inch depths at a nearby location believed to be uninfluenced by contamination. |

MC Moisture content
PSA Particle-size analysis
SpGr Specific gravity

## Table A-15. Open Burning/Open Detonation Source Area Sample Collection Summary - Soil

| Parameter | Analytical Method[a] | Maximum Number of Samples | Quality Assurance Samples | Quality Control Samples | Container | Preservative | Maximum Holding Times |
|---|---|---|---|---|---|---|---|
| Metals[b] | | 10 | 1 | 1 | One 8-oz. glass | 4°C | 28 days for mercury |
| Arsenic/Barium | 7060/6010 | | | | | | 6 months for all others |
| Cadmium/Chromium | 6010/6010 and 7197 | | | | | | |
| Lead/Mercury | 7421/7470 | | | | | | |
| Selenium/Silver | 7740/6010 | | | | | | |
| Vanadium | 6010 | | | | | | |

°C Degrees Celsius

* Duplicates are 10 percent of the total samples.

a. Analytical method is from the U.S. Environmental Protection Agency (EPA), 1986, *Test method for evaluation of solid waste, physical/chemical methods, SW-846*, 3rd edition, amended through update I, July 1992.

b. Metals analyses will consist of an inductively coupled plasma scan for barium, cadmium, chromium, silver, and vanadium; graphite furnace atomic absorption (GFAA) for arsenic, lead, and selenium; and cold vapor atomic absorption (CVAA) for mercury.

## Table A-16. Parameters to be Measured for the In Situ Respiration Tests

| Parameter/ Media | Suggested Method | Suggested Frequency | Instrument Sensitivity (accuracy) |
|---|---|---|---|
| Carbon Dioxide/ Soil Gas | Infrared adsorption method, GasTech Model 32520X (0 to 5 percent and 0 to 25 percent carbon dioxide) | Initial soil-gas sample before pumping air, immediately after pump shut off, every 2 hours for the first 8 hours, and then every 8 to 10 hours | ±0.2 percent |
| Oxygen/Soil Gas | Electrochemical cell method, GasTech Model 32520X (0 to 21 percent oxygen) | Same as carbon dioxide | ±0.5 percent |
| Total Hydrocarbons/ Soil Gas | GasTech hydrocarbon detector of similar field instrumentation | Initial soil-gas sample before pumping air, then same as carbon dioxide | ±1 ppm |
| Helium | Marks Helium Detector Model 9821 or equivalent | Same as carbon dioxide | ±0.01 percent |
| Pressure | Pressure gauge (0 to 30 psia) | During air injection | 0.5 psia |
| Flow Rate/Air | Flowmeter | Reading taken during air injection | ±5 cfh |

cfh Cubic feet per hour
ppm Parts per million
psia Pressure per square inch absolute

Note: Table from *Test Plan and Technical Protocol for a Field Treatability Test for Bioventing*, Environmental Services Office, Air Force Center for Environmental Excellence (AFCEE), May 1992.

# FIGURES

FAIRBANKS

CHENA RIVER

EAST SECTION, FORMER QUARTERMASTER'S FUELING SYSTEM AREA

WEST SECTION, FORMER QUARTERMASTER'S FUELING SYSTEM AREA

DENNIS MANOR SUBDIVISION

MONTEREY LAKE

SOUTH GATE HOUSE

RICHARDSON HWY

BADGER ROAD

ARCTIC SURPLUS

NORTH

0 1250 2500 5000

SCALE IN FEET

LEGEND

- ROADS AND PARKING, PAVED
- ROADS AND PARKING, UNPAVED
- RESERVATION BOUNDARY
- RAILROAD
- STREAM
- SHORELINE
- TRAIL
- BRIDGE

FLOOD CONTROL DIKE

POND (FORMER BORROW AREA)

OPEN BURNING/OPEN DETONATION AREA

GOOSE ISLAND

TANANA RIVER

MERIDIAN ISLAND

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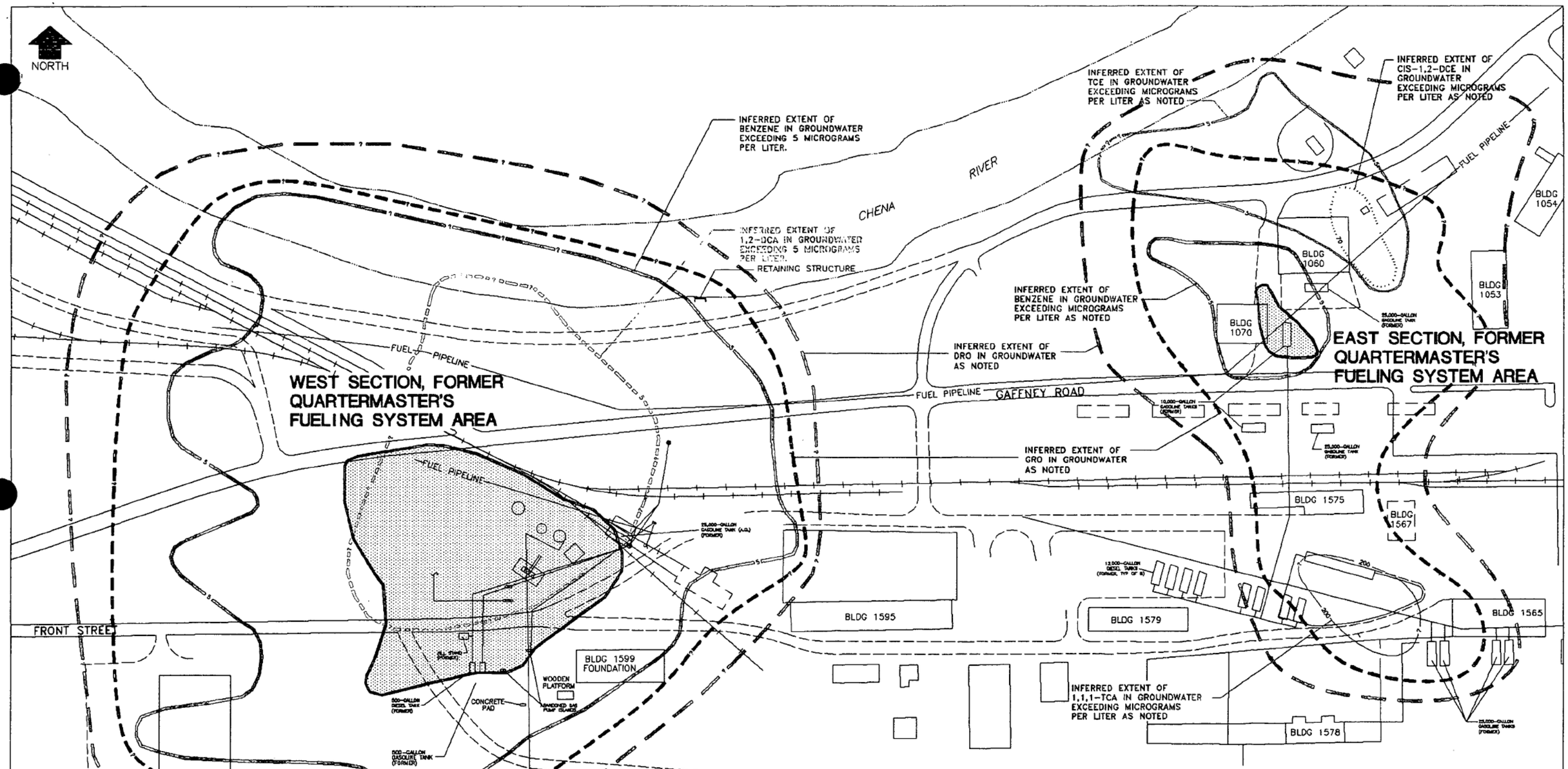
Fort Wainwright, Alaska
OU 5, RI/FS Management Plan

**Site Map**
**Field Sampling Plan**

APPROVED: PCR
CHIEF, ENGINEERING DIVISION
DATE: 10/94
SCALE: NOTED
SPEC. NO.

FIGURE
**A-1**

119b




LEGEND

- INFERRED EXTENT OF FLOATING PRODUCT
- INFERRED EXTENT OF 1,2-DCA IN GROUNDWATER EXCEEDING MICROGRAMS PER LITER AS NOTED
- INFERRED EXTENT OF BENZENE IN GROUNDWATER EXCEEDING MICROGRAMS PER LITER AS NOTED
- INFERRED EXTENT OF 1,1,1-TCA IN GROUNDWATER AS NOTED
- INFERRED EXTENT OF CIS 1,2-DCE IN GROUNDWATER EXCEEDING MICROGRAMS PER LITER AS NOTED
- INFERRED EXTENT OF TCE IN GROUNDWATER EXCEEDING MICROGRAMS PER LITER AS NOTED
- INFERRED EXTENT OF DRO IN GROUNDWATER AS NOTED
- INFERRED EXTENT OF GRO IN GROUNDWATER AS NOTED

NOTES:

1. THE FEDERAL AND STATE DRINKING WATER MAXIMUM CONTAMINANT LEVEL (MCLS) IN MICROGRAMS PER LITER (µg/L):

| | |
|---|---|
| BENZENE | 5 µg/L |
| TRICHLOROETHYLENE (TCE) | 5 µg/L |
| CIS-1,2,-DICHLOROETHYLENE (CIS-1,2-DCE) | 70 µg/L |
| 1,1,1-TRICHLOROETHANE (1,1,1-TCA) | 200 µg/L |
| 1,2-DICHLOROETHANE (1,2-DCA) | 5 µg/L |

2. BENZENE DATA FROM ONSITE ANALYSIS OF GROUNDWATER FROM WELLS AND GROUNDWATER PROBES DURING JULY AND AUGUST 1994. BENZENE DATA ALSO BASED ON OFFSITE ANALYSIS OF GROUNDWATER FROM WELLS DURING SEPTEMBER 1994. BENZENE CONTOURS GENERATED FROM SPILLCAD VERSION 3.2.

3. DIESEL-RANGE ORGANICS (DRO) AND GASOLINE-RANGE ORGANICS (GRO) DATA FROM OFFSITE ANALYSIS OF GROUNDWATER FROM WELLS DURING SEPTEMBER 1994. THE EXTENT OF DRO AND GRO CONTAMINATION IS NOT KNOWN BECAUSE OF THE LIMITED NUMBER OF GROUNDWATER MONITORING WELLS IN THE AREA. IT HAS BEEN ASSUMED THAT THE AREA OF GROUNDWATER CONTAMINATED WITH DRO AND GRO EXTENDS BEYOND THE AREA INFERRED TO CONTAIN BENZENE IN GROUNDWATER IN EXCESS OF 5 PARTS PER BILLION. MCLS FOR DRO AND GRO IN GROUNDWATER DO NOT EXIST.

4. 1,1,1-TCA DATA FROM PHASE II SITE INVESTIGATION DRAFT REPORT, BUILDING 1565, FORT WAINWRIGHT, ALASKA, HLA, JAN. 18, 1994, AND TRP REPORT LETTER, MARCH/APRIL SAMPLING EVENT PHASE II SITE INVESTIGATION, BUILDING 1565, HLA, MAY 5,1994.

5. THE DATA USED TO PREPARE THIS MAP WILL BE PRESENTED IN A REPORT TO THE UNITED STATES ARMY CORPS OF ENGINEERS.

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Fort Wainwright, Alaska
OU 5 RI/FS Management Plan

**Groundwater Plumes, East and West Sections, Former Quartermaster's Fueling System Areas, Field Sampling Plan**

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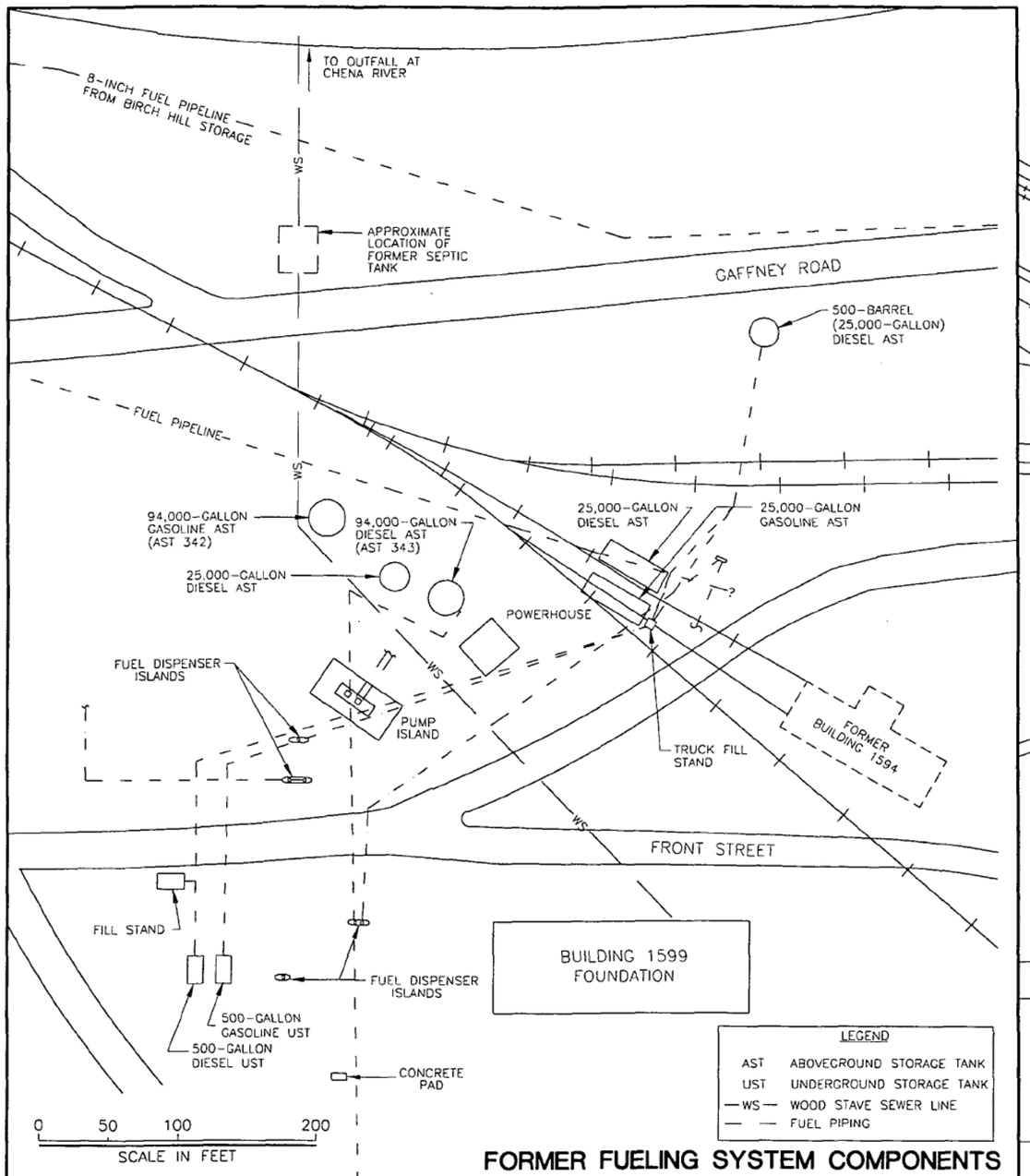
SCALE:

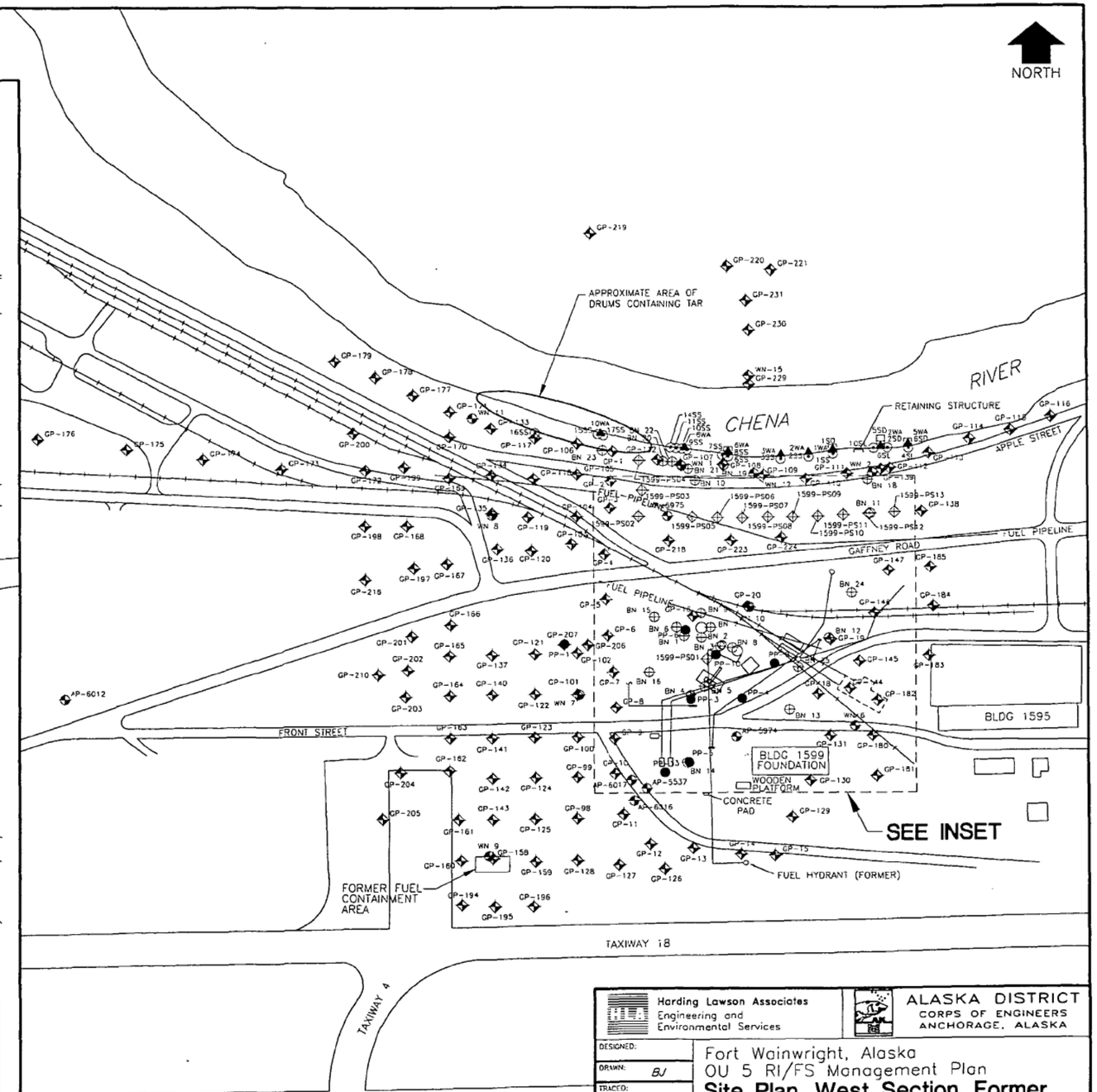
SPEC. NO.

FIGURE
**A-2**

ou5_10




FORMER FUELING SYSTEM COMPONENTS

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Fort Wainwright, Alaska
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**Site Plan, West Section, Former Quartermaster's Fueling System Field Sampling Plan**

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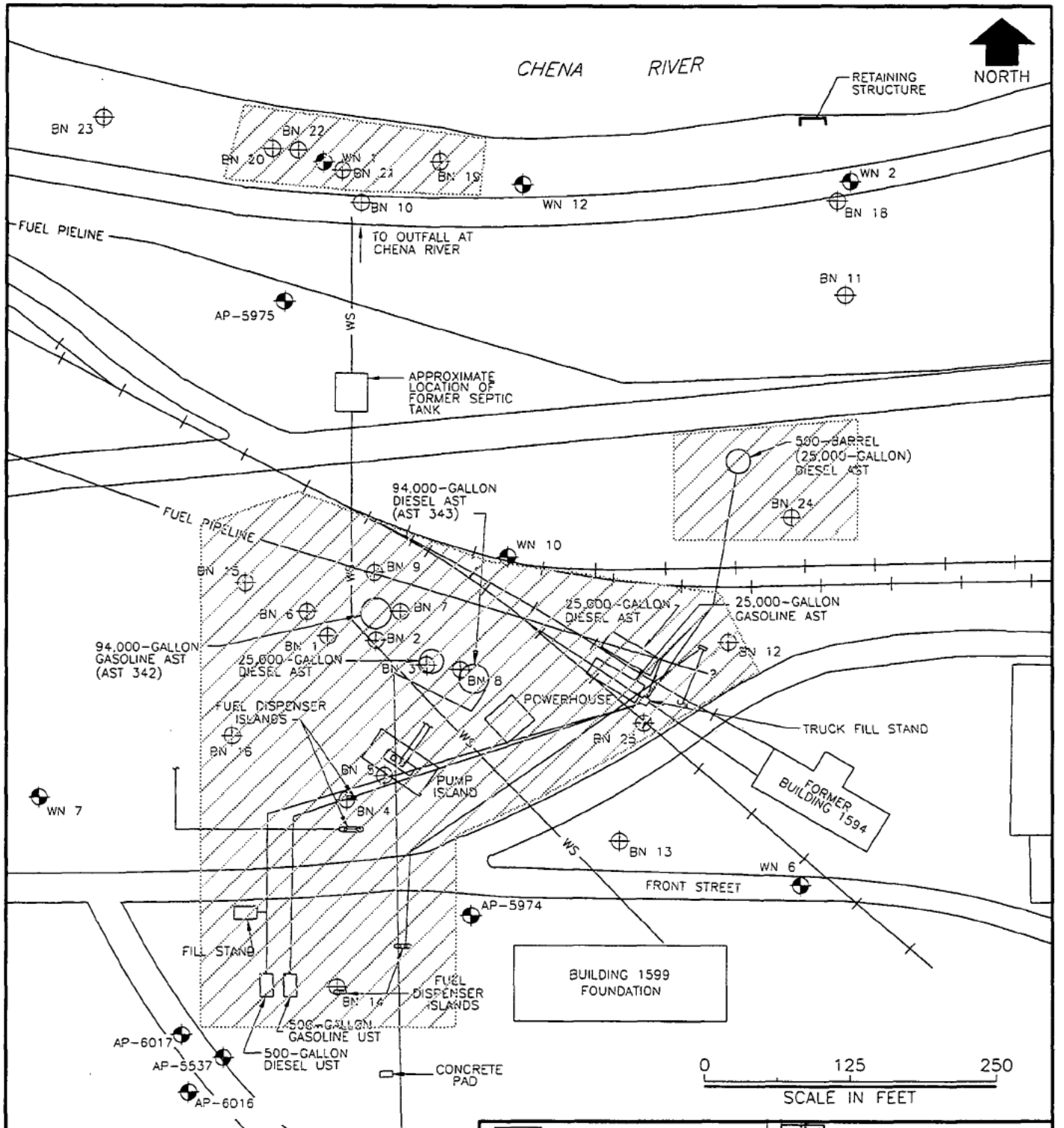
FIGURE
**A-3**

OU5_1




LEGEND

| | |
|---|---|
| ▨ | PROPOSED AREA OF SURFACE SOIL SAMPLING |
| AP-6016 ⊕ | EXISTING GROUNDWATER MONITORING WELL |
| BN 14 ⊕ | EXISTING SOIL BORING LOCATION |
| AST | ABOVEGROUND STORAGE TANK |
| UST | UNDERGROUND STORAGE TANK |

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**Proposed Areas of Surface-Soil Sampling, West QFS Field Sampling Plan**

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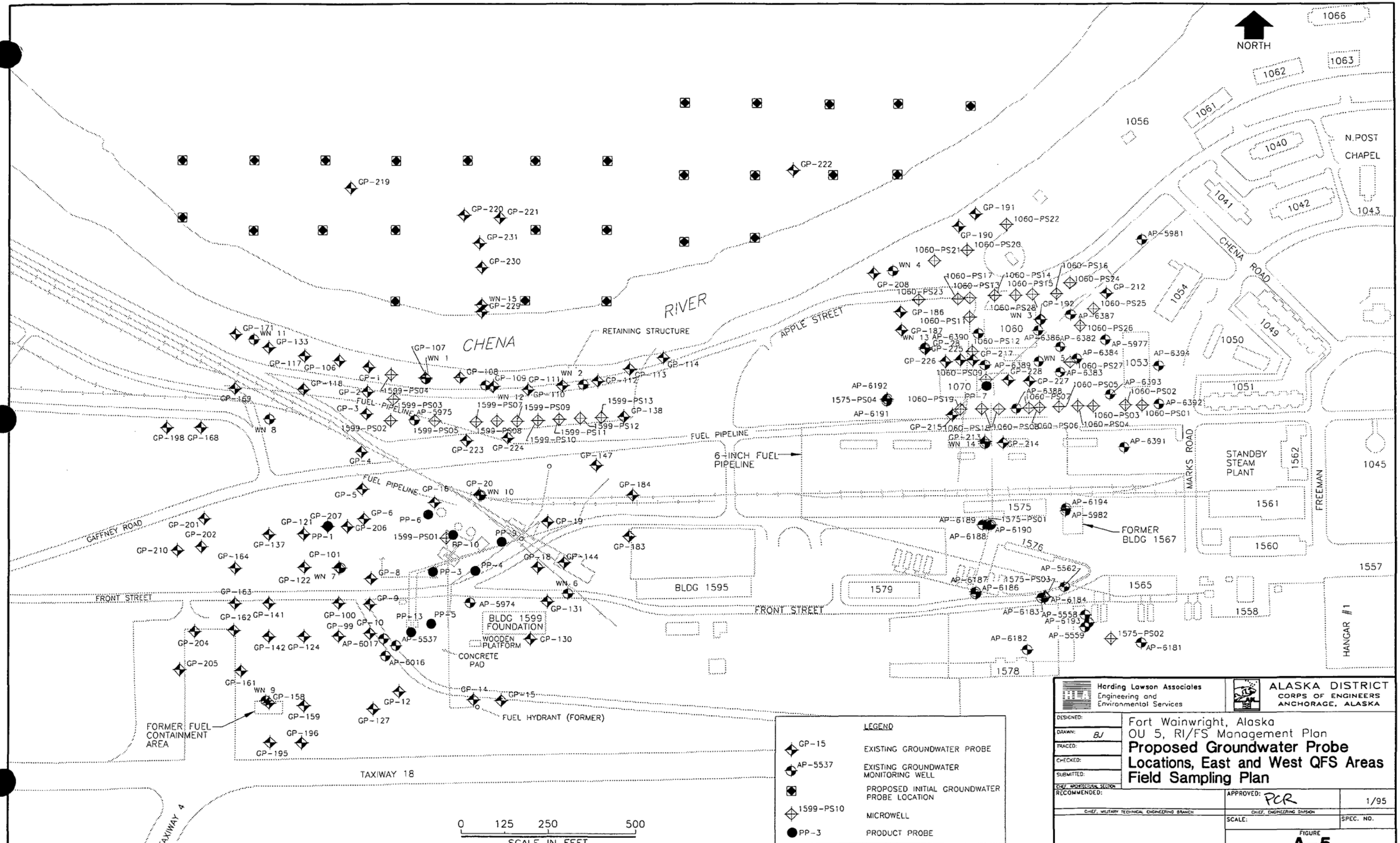
FIGURE
**A-4**

OU5_13

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Fort Wainwright, Alaska
OU 5, RI/FS Management Plan

**Proposed Groundwater Probe Locations, East and West QFS Areas Field Sampling Plan**

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SPEC. NO.

FIGURE
**A-5**

OU5_14

NOTE: BACKGROUND SAMPLES FROM THE CHENA RIVER WILL BE COLLECTED AT AN UPRIVER LOCATION BELIEVED TO BE UNINFLUENCED BY CONTAMINATION. THE TRANSECT LOCATION SHOWN HERE IS CONCEPTUAL ONLY.

NORTH

WEST QUARTERMASTER'S FUELING SYSTEM AREA

EAST QUARTERMASTER'S FUELING SYSTEM AREA

CHENA RIVER

RETAINING STRUCTURE

ALASKA RAILROAD

FUEL PIPELINE

6-INCH FUEL PIPELINE

PIPELINE

APPLE STREET

CHENA ROAD

N.POST CHAPEL

OFFICER MESS

STANDBY STEAM PLANT

MARKS ROAD

FREEMAN

FORMER BLDG 1567

BLDG 1595

BLDG 1599 FOUNDATION

WOODEN PLATFORM

CONCRETE PAD

FORMER FUEL CONTAINMENT AREA

FUEL HYDRANT (FORMER)

FRONT STREET

GAFFNEY ROAD

FLIGHT CONTROL TOWER

HANGAR #1

TAXIWAY 18

1066 1063 1062 1061 1056 1040 1041 1042 1043 1054 1049 1050 1051 1053 1060 1070 1045 1562 1561 1560 1557 1565 1558 1575 1576 1579 1578 1103

CROSS-SECTION A-A'

TYPICAL CHENA RIVER SAMPLING TRANSECT

◇ PROPOSED BANK SEDIMENT SAMPLE LOCATIONS

○ PROPOSED SURFACE-WATER SAMPLE LOCATIONS

▼ PROPOSED SEDIMENT SAMPLE LOCATIONS

NOT TO SCALE

N-E (NORTH) RUNWAY 9155' X S 89°00'31" W (TRUE BEARING)

0 150 300 600

SCALE IN FEET

LEGEND

3WA▲ EXISTING SURFACE-WATER SAMPLE

15SL⊙ EXISTING BANK SEDIMENT SAMPLES (UNSUBMERGED)

5SD□ EXISTING CHANNEL SEDIMENT SAMPLES (SUBMERGED)

◇ PROPOSED BANK SEDIMENT SAMPLE LOCATIONS

▼ PROPOSED SURFACE-WATER AND SEDIMENT SAMPLE LOCATIONS

NOTE: TRANSECT SAMPLING LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS WILL BE BASED ON THE RESULTS OF QUICK TURNAROUND ANALYSES FOR BANK SEDIMENT SAMPLES.

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OU 5, RI/FS Management Plan

**Proposed Sediment and Surface-Water Sampling Locations, East and West QFS Areas, Field Sampling Plan**

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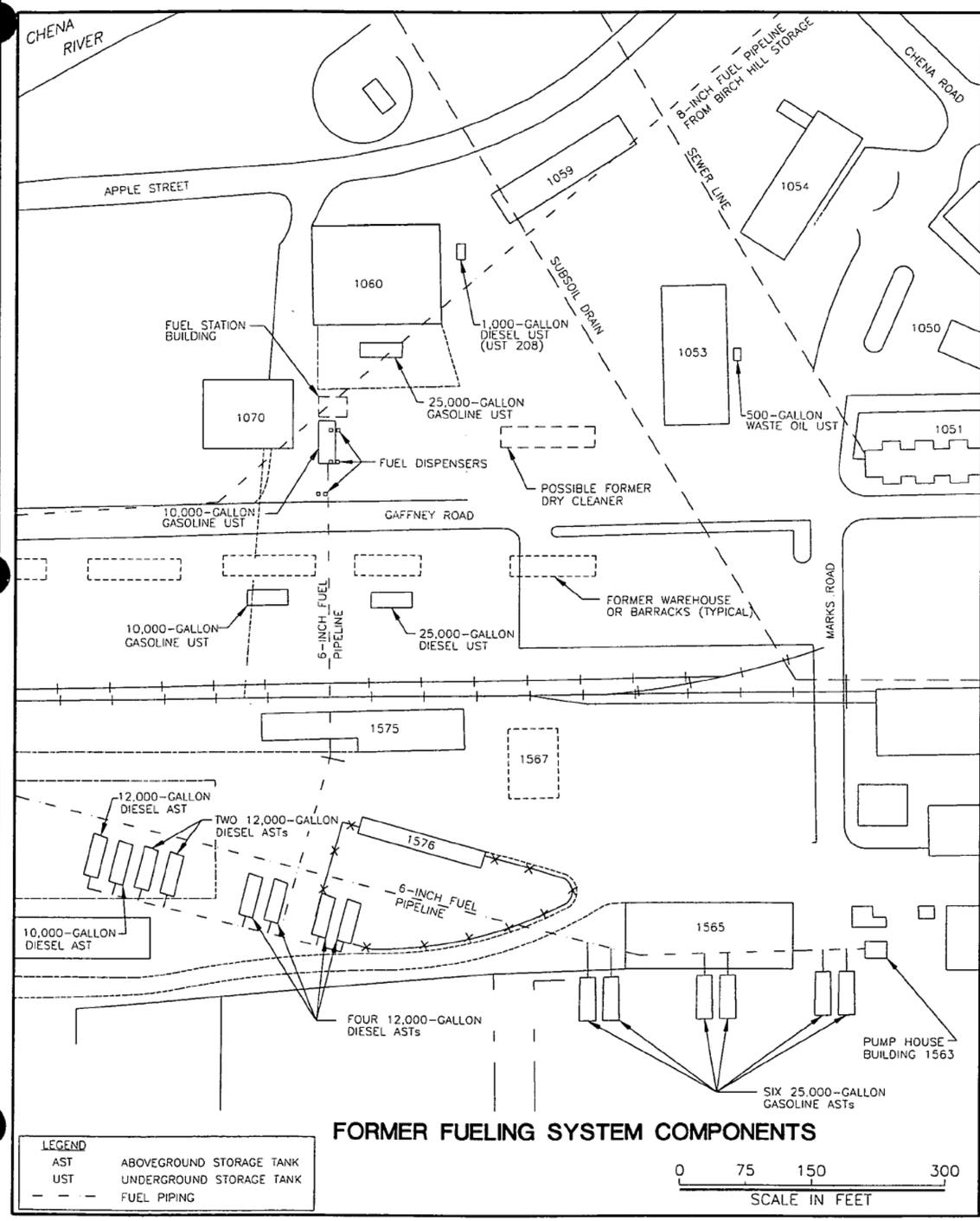
SCALE:

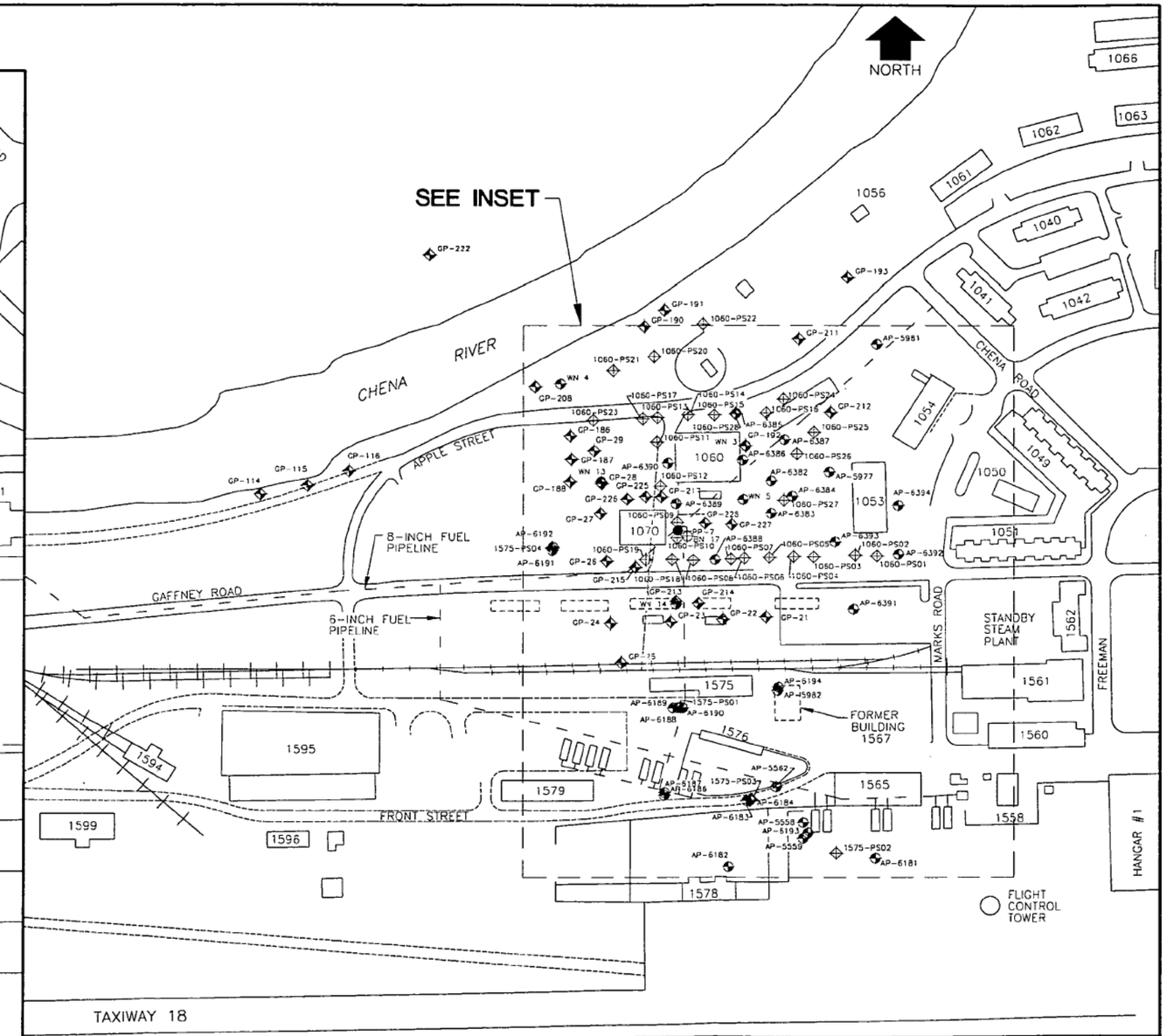
SPEC. NO.

FIGURE
**A-6**

OU5_12




## FORMER FUELING SYSTEM COMPONENTS

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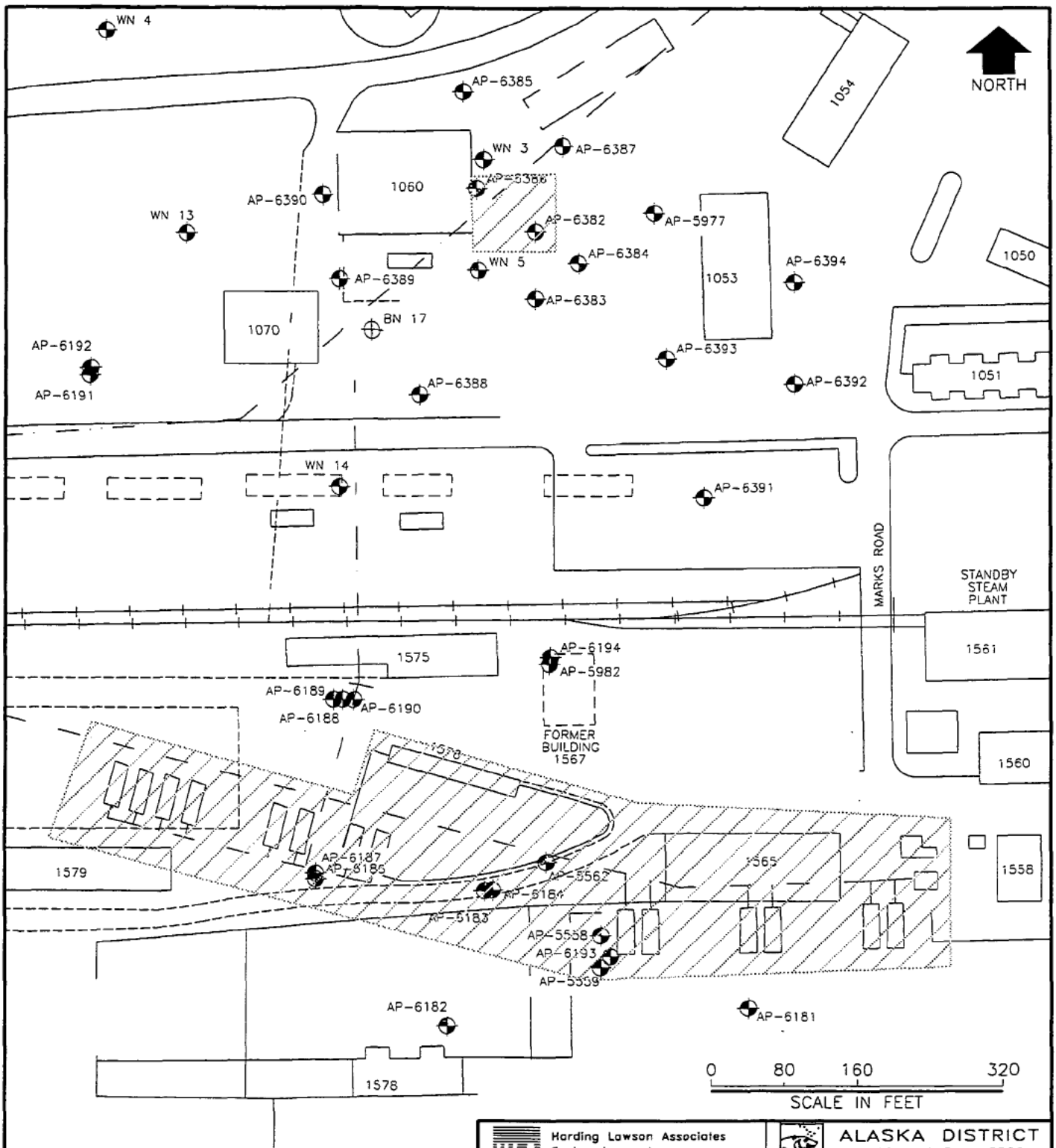
| SUBMITTED: | |
| CHIEF, ARCHITECTURAL SECTION | |
| RECOMMENDED: | APPROVED: PCR — 1/95 |
| CHIEF, MILITARY TECHNICAL ENGINEERING BRANCH | CHIEF, ENGINEERING DIVISION |
| | SCALE: — SPEC. NO. |
| | FIGURE **A-7** |

OU5_2




LEGEND

PROPOSED AREA OF SURFACE SOIL SAMPLING

AP-6182 EXISTING GROUNDWATER MONITORING WELL

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Fort Wainwright, Alaska
OU 5, RI/FS Management Plan

**Proposed Areas of Surface-Soil Sampling, East QFS Field Sampling Plan**

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CHIEF, ENGINEERING DIVISION

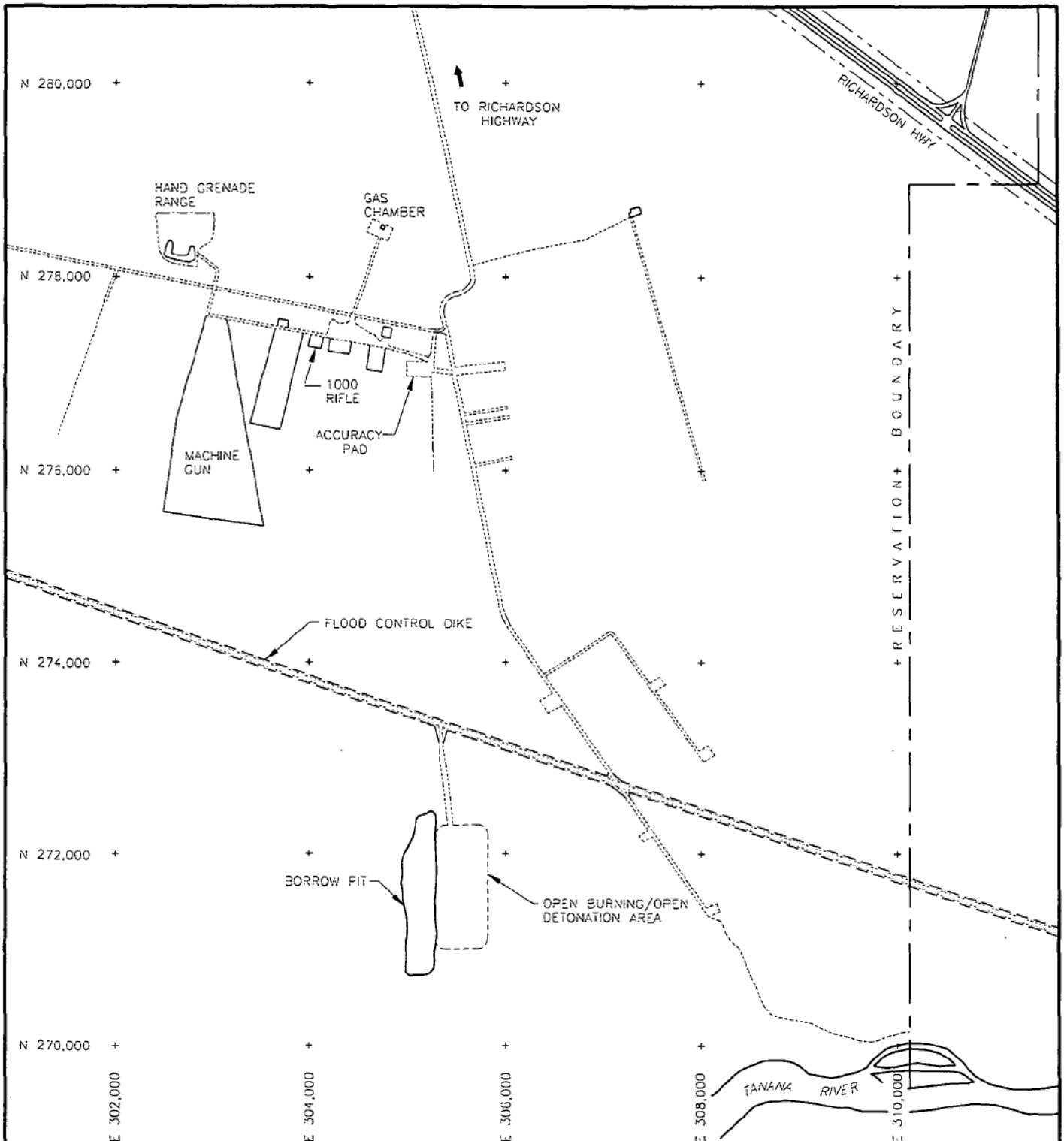
1/95

SCALE:

SPEC. NO.

FIGURE
**A-8**

OU5_15




REFERENCE: DIRECTOR OF FACILITIES ENGINEERING, AS-BUILT, SQUAD LIVE FIRE ASSAULT RANGE, LOCATION AND VICINITY MAP, DATED 5/81.

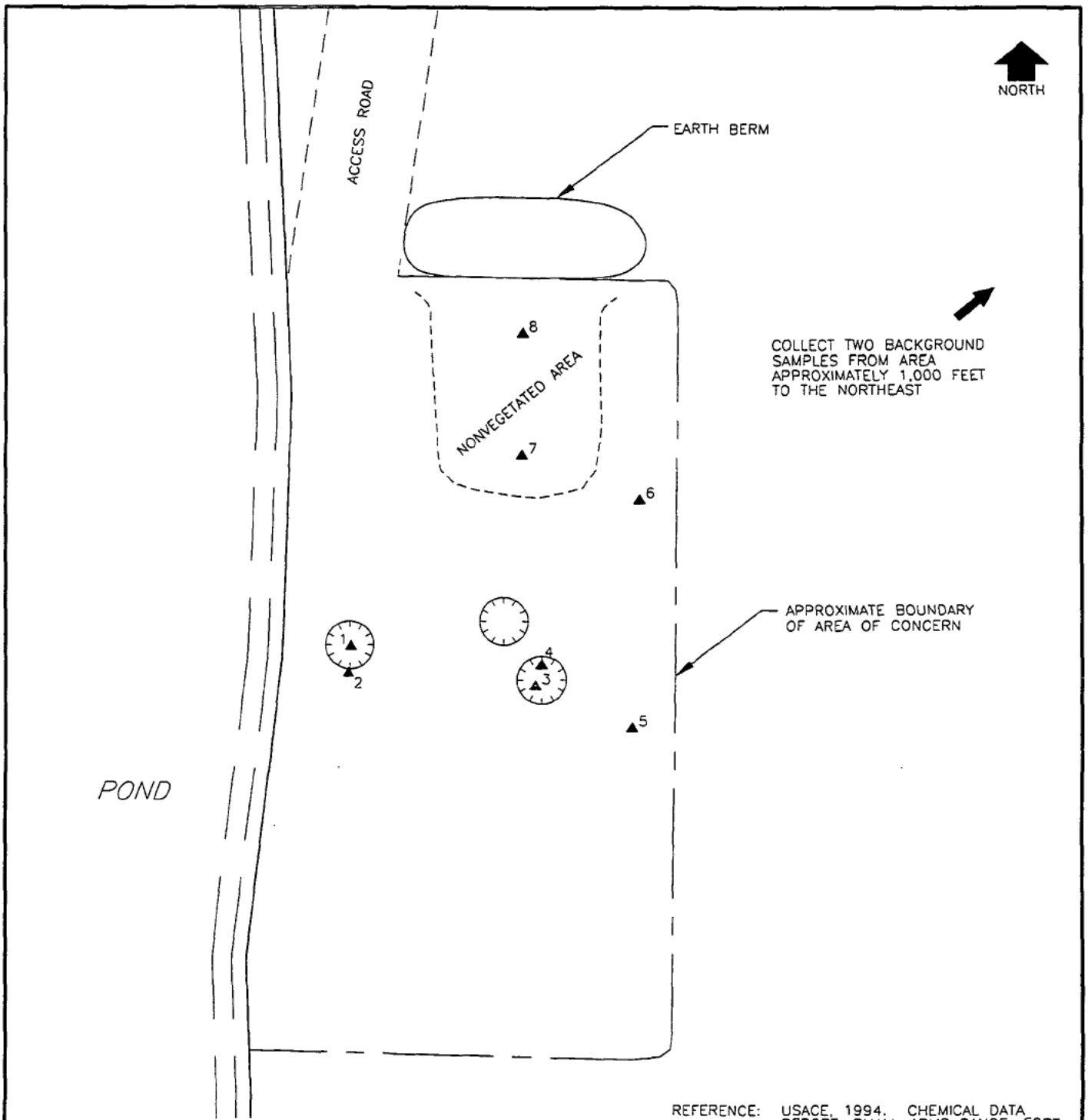
Harding Lawson Associates
Engineering and Environmental Services

ALASKA DISTRICT
CORPS OF ENGINEERS
ANCHORAGE, ALASKA

| | |
|---|---|
| DESIGNED: | Fort Wainwright, Alaska |
| DRAWN: JP | OU 5, RI/FS Management Plan |
| TRACED: | **Site Plan, Open Burning/Open Detonation Area** |
| CHECKED: | **Field Sampling Plan** |
| SUBMITTED: | |
| CHIEF, ARCHITECTURAL SECTION | |

| | | |
|---|---|---|
| RECOMMENDED | APPROVED: PCR | DATE: 1/95 |
| CHIEF, MILITARY TECHNICAL ENGINEERING BRANCH | CHIEF, ENGINEERING DIVISION | |
| | SCALE: NOTED | SPEC. NO. |
| | FIGURE **A-9** | |

1995




REFERENCE: USACE, 1994. CHEMICAL DATA REPORT, SMALL ARMS RANGE, FORT WAINWRIGHT, ALASKA, FIGURE 3, SAMPLING LOCATIONS, OCTOBER 24.

NOT TO SCALE

LEGEND

▲1 1994 USACE SAMPLING LOCATIONS AND NUMBERS AND PROPOSED HLA SURFACE-SOIL SAMPLING LOCATION

DETONATION CRATER

USACE U.S. ARMY CORPS OF ENGINEERS

NOTE: EXISTING SAMPLE LOCATIONS ARE MARKED WITH SURVEYOR'S FLAGGING.

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Engineering and Environmental Services

ALASKA DISTRICT
CORPS OF ENGINEERS
ANCHORAGE, ALASKA

DESIGNED:
DRAWN: JP
TRACED:
CHECKED:
SUBMITTED:
CHIEF, ARCHITECTURAL SECTION

Fort Wainwright, Alaska
OU 5, RI/FS Management Plan

**Proposed Sampling Plan, Open Burning/Open Detonation Area Field Sampling Plan**

RECOMMENDED:
CHIEF, MILITARY TECHNICAL ENGINEERING BRANCH

APPROVED: PCR
CHIEF, ENGINEERING DIVISION

DATE: 1/95

SCALE: NOTED

SPEC. NO.

FIGURE
**A-10**

## COARSE-GRAINED SOIL
More than half is larger than No. 200 sieve

| DIVISION | FINES CONTENT (-#200) | SAND CONTENT | TYPICAL NAME | GRADATION DESIGNATION | SYMBOL |
|---|---|---|---|---|---|
| GRAVEL<br>MORE THAN HALF COARSE FRACTION IS LARGER THAN NO. 4 SIEVE SIZE | LESS THAN 5% | <15% | GRAVEL | GP, GW | |
| | | >15% | SANDY GRAVEL | GP, GW | |
| | 5 TO 12 % | <15% | GRAVEL WITH SILT | GP-GM GW-GM | |
| | | >15% | SANDY GRAVEL WITH SILT | GP-GM GW-GM | |
| | | <15% | GRAVEL WITH CLAY | GP-GC GW-GC | |
| | | >15% | SANDY GRAVEL WITH CLAY | GP-GC GW-GC | |
| | MORE THAN 12% | <15% | SILTY GRAVEL | GM | |
| | | >15% | SILTY SANDY GRAVEL | GM | |
| | | <15% | CLAYEY GRAVEL | GC | |
| | | >15% | CLAYEY SANDY GRAVEL | GC | |
| SAND<br>LESS THAN HALF COARSE FRACTION IS LARGER THAN NO. 4 SIEVE SIZE | LESS THAN 5% | >85% | SAND | SP, SW | |
| | | <85% | GRAVELLY SAND | SP, SW | |
| | 5 TO 12 % | >85% | SAND WITH SILT | SP-SM SW-SM | |
| | | <85% | GRAVELLY SAND WITH SILT | SP-SM SW-SM | |
| | | >85% | SAND WITH CLAY | SP-SC SW-SC | |
| | | <85% | GRAVELLY SAND WITH CLAY | SP-SC SW-SC | |
| | MORE THAN 12% | >85% | SILTY SAND | SM | |
| | | <85% | SILTY GRAVELLY SAND | SM | |
| | | >85% | CLAYEY SAND | SC | |
| | | <85% | CLAYEY GRAVELLY SAND | SC | |

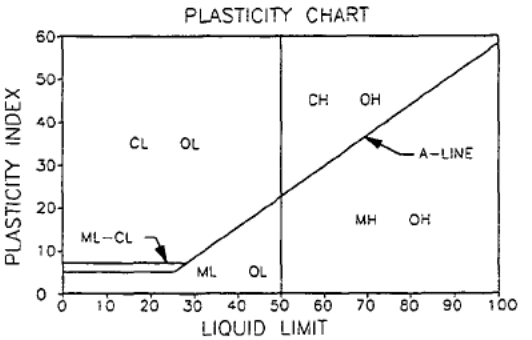
### WELL AND POORLY GRADED DESIGNATION

$D_{10}$ – PARTICLE DIAMETER AT WHICH 10 PERCENT OF THE SOIL IS SMALLER
$D_{30}$ – PARTICLE DIAMETER AT WHICH 30 PERCENT OF THE SOIL IS SMALLER
$D_{60}$ – PARTICLE DIAMETER AT WHICH 60 PERCENT OF THE SOIL IS SMALLER

$$C_u = \frac{D_{60}}{D_{10}} \qquad C_c = \frac{(D_{30})^2}{D_{10} \times D_{60}}$$

FOR GRAVEL: IF $C_u > 4$ AND $1 < C_c < 3$, THEN GW; IF NOT, THEN GP
FOR SAND: IF $C_u > 6$ AND $1 < C_c < 3$, THEN SW; IF NOT, THEN SP

### PLASTICITY CHART




## FINE-GRAINED SOIL
More than half is smaller than No. 200 sieve

| | SAND PLUS GRAVEL CONTENT | SAND CONTENT | NON-ORGANIC FINE-GRAINED SOIL (LL-OVEN DRIED/LL-NOT DRIED > 0.75) | | | | ORGANIC FINE-GRAINED SOIL (LL-OVEN DRIED/LL-NOT DRIED <0.75) | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | TYPICAL NAME | PLASTICITY DESIGNATION LIQUID LIMIT <50% | PLASTICITY DESIGNATION LIQUID LIMIT >50% | SYMBOL | TYPICAL NAME | PLASTICITY DESIGNATION LIQUID LIMIT <50% | PLASTICITY DESIGNATION LIQUID LIMIT >50% | SYMBOL |
| PI PLOTS BELOW A-LINE | <30% | <15% | SILT | ML | MH | | ORGANIC SILT | OL | OH | |
| | <30% | 15-29% | SANDY SILT | ML | MH | | SANDY ORGANIC SILT | OL | OH | |
| | 15-50% | <15% | GRAVELLY SILT | ML | MH | | GRAVELLY ORGANIC SILT | OL | OH | |
| | 30-50% | >15% | GRAVELLY SANDY SILT | ML | MH | | GRAVELLY SANDY ORGANIC SILT | OL | OH | |
| | 30-50% | >15% | SANDY GRAVELLY SILT | ML | MH | | SANDY GRAVELLY ORGANIC SILT | OL | OH | |
| PI PLOTS ABOVE A-LINE | <30% | <15% | CLAY | CL | CH | | ORGANIC CLAY | OL | OH | |
| | <30% | 15-29% | SANDY CLAY | CL | CH | | SANDY ORGANIC CLAY | OL | OH | |
| | 15-50% | <15% | GRAVELLY CLAY | CL | CH | | GRAVELLY ORGANIC CLAY | OL | OH | |
| | 30-50% | >15% | GRAVELLY SANDY CLAY | CL | CH | | GRAVELLY SANDY ORGANIC CLAY | OL | OH | |
| | 30-50% | >15% | SANDY GRAVELLY CLAY | CL | CH | | SANDY GRAVELLY ORGANIC CLAY | OL | OH | |

Source: Modified from American Society for Testing and Materials D 2487

Harding Lawson Associates
Engineering and Environmental Services

ALASKA DISTRICT
CORPS OF ENGINEERS
ANCHORAGE, ALASKA

DESIGNED:
DRAWN: JP
TRACED:
CHECKED:
SUBMITTED:
CHIEF, ENGINEERING DIVISION

Fort Wainwright, Alaska
OU 5, RI/FS Management Plan

**Soil Classification System**
**Field Sampling Plan**

RECOMMENDED:
CHIEF, MILITARY TECHNICAL ENGINEERING BRANCH

APPROVED: PCR
CHIEF, ENGINEERING DIVISION

DATE: 1/95

SCALE: NOTED

SPEC. NO.

FIGURE
**A-11**

191b

## KEY TO SAMPLE TYPES

G = Grab

P = Pocket

RC = Rock Core

S = Thin-Wall Tube

SC = Soil Core

SPT = Standard Penetration Test (2-inch OD split spoon)

SS = Split Spoon (commonly 3-inch OD split spoon)

## KEY TO LABORATORY TEST DATA

- Tube Sample
- Bulk or Classification Sample

AL – Atterberg Limits
- LL – Liquid Limit (in %)
- PL – Plastic Limit (in %)
- NP – Nonplastic
- PI – Plasticity Index (in %)

PSA – Particle-Size Analysis

-#200 – Minus No. 200 Sieve Size

OLI – Organic Loss by Ignition

$G_s$ – Specific Gravity

SAL – Salinity

Consol – Consolidation

UC – Unconfined Compression

TxUU – Unconsolidated Undrained Triaxial

TxCU – Consolidated Undrained Triaxial

TxCD – Consolidated Drained Triaxial

DS – Consolidated Drained Direct Shear

DSS – Direct Simple Shear

LV – Laboratory Vane Shear

## CRITERIA FOR DESCRIBING MOISTURE CONDITION

| Condition | Criteria |
|---|---|
| Dry | Absence of moisture, dusty, dry to the touch |
| Moist | Damp but no visible water |
| Wet | Visible free water, usually soil is below water table |

## DESCRIPTION OF ESTIMATED RELATIVE DENSITY AND CONSISTENCY

| Primary Soil Type | Estimated Relative Density or Consistency [1] | Standard Penetration Test Resistance [2] | Nonstandard Penetration Test Resistance [3,4] | | Range of Unconfined Compressive Strength |
|---|---|---|---|---|---|
| | | 140-pound hammer 30-inch fall 2-inch OD sampler (blows per foot) | 300-pound hammer 30-inch fall 3-inch OD sampler (blows per foot) | 300-pound hammer 30-inch fall 4.5-inch OD sampler (blows per foot) | |
| Coarse-grained soil. (More than half of material is larger than No. 200 sieve size.) | Very Loose | <4 | <4 | <9 | Not Applicable |
| | Loose | 4 to 10 | 4 to 11 | 9 to 24 | Not Applicable |
| | Medium Dense | 10 to 30 | 11 to 32 | 24 to 71 | Not Applicable |
| | Dense | 30 to 50 | 32 to 53 | 71 to 118 | Not Applicable |
| | Very Dense | >50 | >53 | >118 | Not Applicable |
| Fine-grained soil. (More than half of material is smaller than No. 200 sieve size.) | Very Soft | <2 | <2 | <5 | Less than 250 psf |
| | Soft | 2 to 4 | 2 to 4 | 5 to 9 | 250 to 500 |
| | Medium Stiff | 4 to 8 | 4 to 8 | 9 to 19 | 500 to 1000 |
| | Stiff | 8 to 15 | 8 to 15 | 19 to 35 | 1000 to 2000 |
| | Very Stiff | 15 to 30 | 15 to 32 | 35 to 71 | 2000 to 4000 |
| | Hard | >30 | >32 | >71 | Greater than 4000 |

1 Relative Density is used to describe coarse-grained soil and nonplastic silt. Consistency describes fine-grained soil excluding nonplastic silt.

2 Standard Penetration Test Resistance is the number of blows by a 140-pound hammer falling 30 inches to drive a 2-inch OD (1-3/8-inch ID) sampler 1 foot.

3 Nonstandard Penetration Test Resistance is the number of blows by a 300-pound hammer falling 30 inches to drive a 3-inch OD (2.5-inch ID) sampler or a 4.5-inch OD (4-inch ID) sampler 1 foot.

4 The relationship between the estimated relative density or consistency and nonstandard penetration test resistance is based on a correlation developed by Y. Lacroix and H.M. Horn in "Direct Determination and Indirect Evaluation of Relative Density and its use on Earthwork Construction Projects," 1973, in *Evaluation of Relative Density and its Role in Geotechnical Projects Involving Cohesionless Soils*, American Society for Testing and Materials STP 523, pp. 251-280.

< Less than
> Greater than
ID Inside diameter
OD Outside diameter

Harding Lawson Associates
Engineering and Environmental Services

ALASKA DISTRICT
CORPS OF ENGINEERS
ANCHORAGE, ALASKA

DESIGNED:
DRAWN: BJ
TRACED:
CHECKED:
SUBMITTED:
CHIEF, ARCHITECTURAL SECTION
RECOMMENDED:
CHIEF, MILITARY TECHNICAL ENGINEERING BRANCH

Fort Wainwright, Alaska
OU 5, RI/FS Management Plan

**Key to Sampling and Testing Data**
**Field Sampling Plan**

APPROVED: PCR
CHIEF, ENGINEERING DIVISION

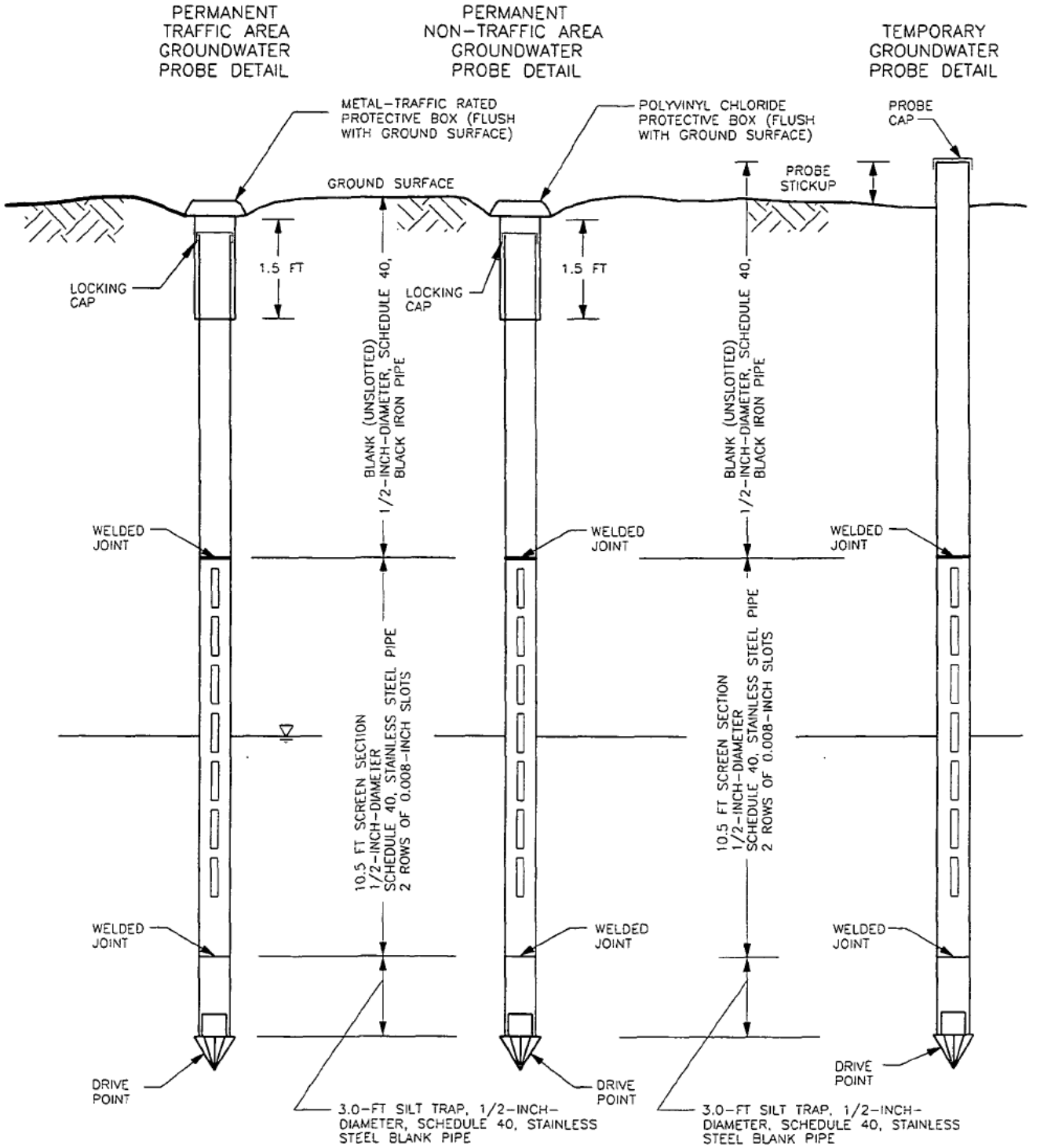
DATE: 1/95

SCALE:

SPEC. NO.

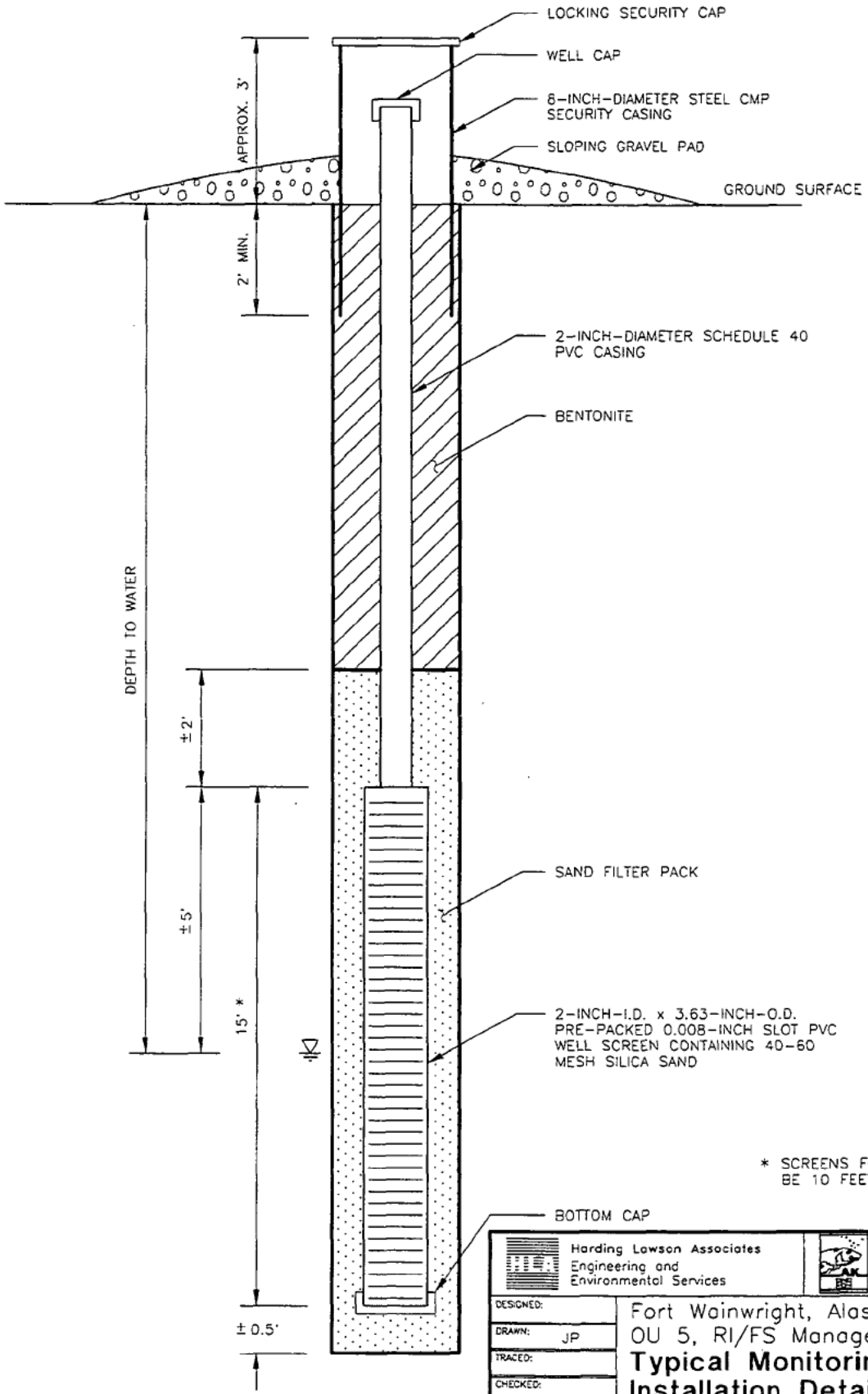
FIGURE
**A-12**

1915




| | | |
|---|---|---|
| Harding Lawson Associates Engineering and Environmental Services | ALASKA DISTRICT CORPS OF ENGINEERS ANCHORAGE, ALASKA | |
| DESIGNED: | Fort Wainwright, Alaska | |
| DRAWN: BJ | OU 5, RI/FS Management Plan | |
| TRACED: | | |
| CHECKED: | **Typical Groundwater Probe Detail** | |
| SUBMITTED: | **Field Sampling Plan** | |
| CHIEF, ARCHITECTURAL SECTION | | |
| RECOMMENDED: | APPROVED: PCR | DATE: 1/95 |
| CHIEF, MILITARY TECHNICAL ENGINEERING BRANCH | CHIEF, ENGINEERING DIVISION | |
| | SCALE: | SPEC. NO. |
| | FIGURE **A-13** | |

OU5_16




* SCREENS FOR DEEP WELLS WILL BE 10 FEET.

| | |
|---|---|
| CMP | CORRUGATED METAL PIPE |
| I.D. | INSIDE DIAMETER |
| O.D. | OUTSIDE DIAMETER |
| PVC | POLYVINYL CHLORIDE |

Harding Lawson Associates
Engineering and Environmental Services

ALASKA DISTRICT
CORPS OF ENGINEERS
ANCHORAGE, ALASKA

DESIGNED:
DRAWN: JP
TRACED:
CHECKED:
SUBMITTED:
CHIEF, ARCHITECTURAL SECTION

Fort Wainwright, Alaska
OU 5, RI/FS Management Plan
**Typical Monitoring Well Installation Detail**
**Field Sampling Plan**

RECOMMENDED:
CHIEF, MILITARY TECHNICAL ENGINEERING BRANCH

APPROVED: PCR
CHIEF, ENGINEERING DIVISION

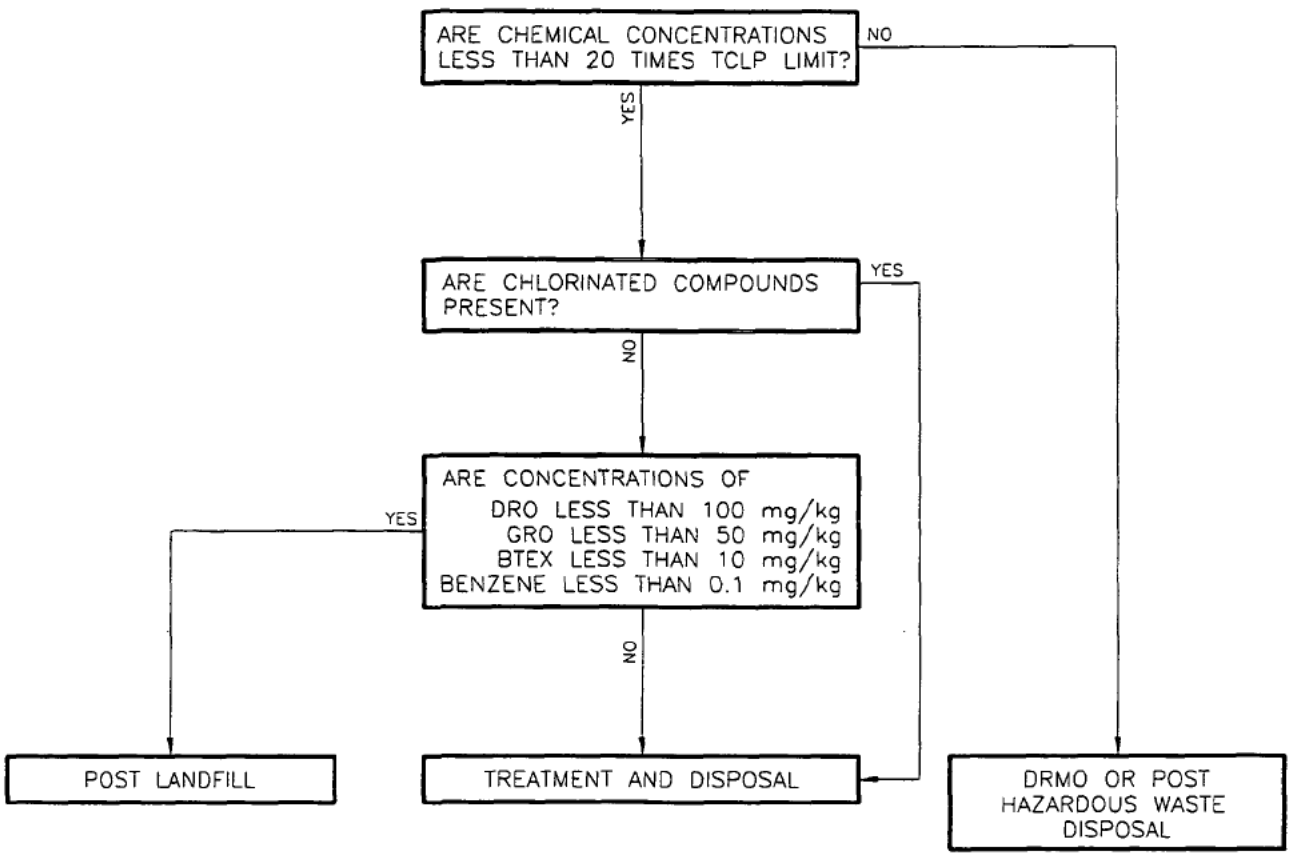
DATE: 1/95

SCALE: NOTED

SPEC. NO.

FIGURE
**A-14**

192b




| | |
|---|---|
| BTEX | BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES |
| DRO | DIESEL-RANGE ORGANICS |
| GRO | GASOLINE-RANGE ORGANICS |
| IDW | INVESTIGATION-DERIVED WASTE |
| mg/kg | MILLIGRAMS PER KILOGRAM |
| TCLP | TOXICITY CHARACTERISTIC LEACHING PROCEDURE |
| DRMO | DEFENSE REUTILIZATION MARKETING OFFICE |

Harding Lawson Associates
Engineering and Environmental Services

ALASKA DISTRICT
CORPS OF ENGINEERS
ANCHORAGE, ALASKA

DESIGNED:
DRAWN: JP
TRACED:
CHECKED:
SUBMITTED:
CHIEF, ARCHITECTURAL SECTION

Fort Wainwright, Alaska
OU 5, RI/FS Management Plan
**IDW Soil Cuttings Disposal Decision Tree**
**Field Sampling Plan**

RECOMMENDED:
CHIEF, MILITARY TECHNICAL ENGINEERING BRANCH

APPROVED: PCL
CHIEF, ENGINEERING DIVISION

DATE: 1/95

SCALE: NOTED

SPEC. NO.

FIGURE
**A-15**

194b

# ATTACHMENT

# SAMPLE FORMS

| Form Number | Form Name |
|---|---|
| 1 | Sample Label |
| 2 | Field Log of Boring |
| 3 | Probe Completion Data |
| 4 | Field Well Completion Form |
| 5 | Well Development Data |
| 6 | Groundwater Sampling Data |
| 7 | Environmental Activities tracking System Ground-water and Surface-Water Levels |
| 8 | Air Response Test |
| 9 | Drum Label |
| 10 | Liquid/Solid DERA IDW Temporary Storage Form |

# FORM 1

## SAMPLE LABEL

FORT WAINWRIGHT

Analysis: _____

Preservation: _____

Collector: _____ Date: _____

Place: _____ Time: _____

Depth: _____ Boring No.: _____

Sample No. _____

Not to Scale

# FORM 2
## FIELD LOG OF BORING

SHEET ____ OF ____

| LOCATION OF BORING: | PROJECT: | BORING NO. |
|---|---|---|
| | | TOTAL DEPTH: |
| | JOB NO.: | LOGGED BY: |
| | PROJ. MGR.: | EDITED BY: |
| | DRILLING CONTRACTOR: | |
| | DRILL RIG TYPE: | |
| | DRILLER'S NAME: | |
| | SAMPLING METHODS: | |
| | HAMMER WT.: | DROP: |
| | STARTED, TIME: | DATE: |
| | COMPLETED, TIME: | DATE: |

| | | | |
|---|---|---|---|
| BORING DEPTH (ft.) | | | |
| CASING DEPTH (ft.) | | | |
| WATER DEPTH (ft.) | | | |
| TIME: | | | |
| DATE: | | | |

BACKFILLED, TIME: DATE: BY:

SURFACE ELEV.: DATUM:

CONDITIONS:

| SAMPLE DEPTH | SAMPLER TYPE | BLOWS/6-IN. | INCHES DRIVEN | INCHES RECOVERED | SAMPLE CONDITION | DRILLING RATE (min/ft.) | | | | DEPTH IN FEET | GRAPHIC LOG |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | 1 | |
| | | | | | | | | | | 2 | |
| | | | | | | | | | | 3 | |
| | | | | | | | | | | 4 | |
| | | | | | | | | | | 5 | |
| | | | | | | | | | | 6 | |
| | | | | | | | | | | 7 | |
| | | | | | | | | | | 8 | |
| | | | | | | | | | | 9 | |
| | | | | | | | | | | 10 | |

FIELD LOG OF BORING (CONTINUED)

SHEET _____ OF _____

| DEPTH | TYPE | BLOWS | DRIVEN | REC'V'D. | COND. | D.RATE | | | | DEPTH | GRAPHIC LOG | PROJECT: | NO. | BORING NO. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | 1 | | | | |
| | | | | | | | | | | 2 | | | | |
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| | | | | | | | | | | 9 | | | | |
| | | | | | | | | | | 0 | | | | |

FF8

HARDING-LAWSON ASSOCIATES

Installed by: _____

Page _____ of _____

**FORM 3**

**Probe Completion Data**
**Fort Wainwright, Alaska**
**OU 5 Remedial Investigation/Feasibility Study**

| Probe Number | Permanent? (Y/N) | Date Installed 1994 | Blank Pipe (ft bgs-ft bgs) | Screen Interval (ft BTOC-ft BTOC) | Silt Trap (ft BTOC-ft BTOC) | Water Level (ft BTOC) |
|---|---|---|---|---|---|---|
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**FORM 4**

## FIELD WELL COMPLETION FORM

JOB NAME:

| | |
|---|---|
| JOB NUMBER: | PROJECT MANAGER: |
| LOGGED BY: | EDITED BY: |

WELL NAME: DATE:

DRILLING COMPANY:

EQUIPMENT: ☐ _____ INCH HOLLOW STEM AUGER ☐ _____ INCH ROTARY WASH

DRILLER: HOURS DRILLED:

GALLONS OF WATER USED DURING DRILLING: GALLONS

METHOD OF DECONTAMINATION PRIOR TO DRILLING:

## DEVELOPMENT

METHOD OF DEVELOPMENT:

DEVELOPMENT BEGAN DATE: TIME:

| YIELD: | TIME: | DATE: |
|---|---|---|
| GPM | FROM TO | |
| GPM | FROM TO | |
| GPM | FROM TO | |
| GPM | FROM TO | |

TOTAL WATER REMOVED DURING DEVELOPMENT: GALLONS

DESCRIPTION OF TURBIDITY AT END OF DEVELOPMENT: ☐ CLEAR ☐ SLIGHTLY CLOUDY ☐ MOD. TURBID ☐ VERY MUDDY

ODOR OF WATER:

WATER DISCHARGED TO: ☐ GROUND SURFACE ☐ TANK TRUCK ☐ STORM SEWERS ☐ STORAGE TANK ☐ DRUMS ☐ OTHER _____

DEPTH TO WATER AFTER DEVELOPMENT: FEET

## MATERIALS USED

_____ SACKS OF _____ SAND

_____ SACKS OF _____ CEMENT

_____ GALLONS OF GROUT USED

_____ SACKS OF POWDERED BENTONITE

_____ POUNDS OF BENTONITE PELLETS

_____ FEET OF _____ INCH PVC BLANK CASING

_____ FEET OF _____ INCH PVC SLOTTED SCREEN

_____ FEET OF _____ INCH STEEL CONDUCTOR CASING

_____ YARD$^3$ CEMENT-SAND (REDI-MIX) ORDERED

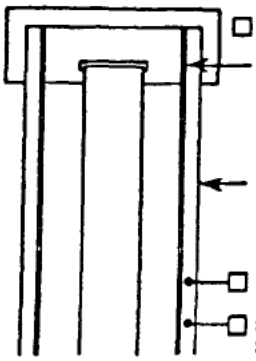
_____ YARD$^3$ CEMENT-SAND (REDI-MIX) USED

CONCRETE PUMPER USED? ☐ NO ☐ YES

NAME _____

WELL COVER USED: ☐ LOCKING STEEL COVER ☐ CHRISTY BOX ☐ OTHER _____

SILT TRAP USED? ☐ NO ☐ YES



☐ CHRISTY BOX

☐ LOCKING STEEL COVER

_____ INCH DIAMETER STEEL CONDUCTOR CASING

_____ to _____ feet

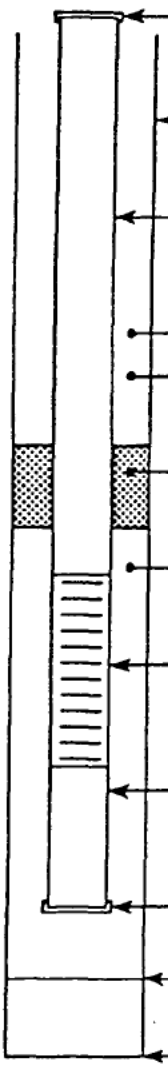
_____ INCH DIAMETER BOREHOLE

_____ to _____ feet

☐ BENTONITE-CEMENT SEAL OR

☐ 8-SACK CEMENT-SAND SEAL

_____ to _____ feet



TOP OF CASING AT _____ FEET ABOVE/AT/BELOW GROUND LEVEL

_____ INCH DIAMETER BOREHOLE

_____ to _____ feet

_____ INCH DIAMETER SCHEDULE 40 PVC BLANK CASING

_____ to _____ feet

☐ BENTONITE-CEMENT SEAL OR

☐ 8-SACK CEMENT-SAND SEAL

_____ to _____ feet

BENTONITE PELLET SEAL

_____ to _____ feet

(NAME) (NUMBER) SAND PACK

_____ to _____ feet

_____ INCH DIAMETER SLOTTED (_____ inch) SCREEN

_____ to _____ feet

_____ INCH DIAMETER SCHEDULE 40 PVC BLANK SILT TRAP

_____ to _____ feet

BOTTOM WELL CAP

_____ feet

HOLE CLEANED OUT TO

_____ feet

BOTTOM OF BOREHOLE

_____ feet

NOT TO SCALE

ADDITIONAL INFORMATION: _____

# FORM 5
# WELL DEVELOPMENT DATA

Project No.: _____ Location: _____
Names(s): _____ Well No.: _____
Total Organic Vapor at Wellhead: _____ Date: _____

## FIELD PARAMETER MEASUREMENTS

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Elapsed Time: (minutes) | | | | | | | | | | |
| Approximate Volume Pumped: (gallons) | | | | | | | | | | |
| Temperature: ($^{o}$Celsius) | | | | | | | | | | |
| pH: | | | | | | | | | | |
| Field Conductivity: (ms/cm) | | | | | | | | | | |
| Turbidity: (NTU) | | | | | | | | | | |
| Redox (mV): | | | | | | | | | | |
| Turbidity (NTU): | | | | | | | | | | |

Observations During Development: _____ Fuel Odor _____ Fuel Sheen
_____ Other (color) _____

## DEVELOPMENT VOLUME

Well Volume: (_____ - _____) x (_____)$^2$ x 0.0408 = _____ gallons
(TD) (WL) (d)

Number of Well Volumes to be Purged (# vols.): _____ Purge Volume: _____ x _____ = _____ gallons
(# vols.) (well volume)

## DEVELOPMENT METHOD

Pump Type: _____ Submersible _____ Centrifugal _____ Diaphragm Bailer - Type: _____
Other - Type: _____ Surge Block: _____ Yes _____ No

## PUMPING TIME

_____ Start/ _____ Stop/ _____ Minutes Elapsed

## PUMPING RATE

Initial - _____ gpm Final - _____ gpm

Water Level After Development (feet BTOC): _____

How Development Water Was Disposed: _____

_____

BTOC = Below top of casing.
d = Diameter of well casing (inches).
gpm = Gallons per minute.
ms/cm = Millisiemens per centimeter.
NTU = Nephelometric turbidity units.
ppm = Parts per million.
TD = Total depth of casing (feet BTOC).
WL = Water level depth (feet BTOC).

# FORM 6
# GROUNDWATER SAMPLING DATA

Project Name and No.: _____ Well No.: _____
Sampled By: _____ Well Type: _____
Date and Time: _____ Well Material: _____

## WELL PURGING

### PURGE VOLUME

Well Volume: [_____ - _____] x [0.3(_____)$^2$ + 0.7 (_____)$^2$] x 0.0408 = _____ gallons
(TD) (WL) (D) (d)

Number of Well Volumes to be Purged (# vols.): _____ Purge Volume: _____ x _____ = _____ gallons
(# vols.) (well volume)

### PURGE METHOD

Pump Type: _____ Submersible _____ Centrifugal _____ Diaphragm
_____ Other - Type: _____
Bailer - Type: _____

### PURGE INTAKE

Depth (feet BTOC): _____
Screen Interval (feet BTOC): From _____ To _____

### PURGE TIME

Total Elapsed Time: _____ minutes

### PURGE RATE

Initial: _____ gpm
Final: _____ gpm
Ave: _____ gpm

### ACTUAL PURGE VOLUME

_____ gallons

### FIELD PARAMETER MEASUREMENT

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Elapsed Time: (minutes) | | | | | | | | | | |
| Temperature: (°Celsius) | | | | | | | | | | |
| pH: | | | | | | | | | | |
| Field Conductivity: (ms/cm) | | | | | | | | | | |
| Turbidity: (NTU) | | | | | | | | | | |
| Dissolved Oxygen: (mg/L) | | | | | | | | | | |
| REDOX: (mV) | | | | | | | | | | |

Observations: _____ Fuel Odor _____ Fuel Sheen _____ Other _____
Water Level After Purging (feet BTOC): _____
How Purge Water Was Disposed of: _____

## WELL SAMPLING

### SAMPLING METHOD

_____ Same as Purge Method
_____ Other _____

### SAMPLING INFORMATION

Date: _____ Time: _____
Laboratory: _____

### SAMPLING DISTRIBUTION

| | Sample Type | | | Analyses Requested | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample No. | Project | QA | QC | 602 | 8015M | 8100M | 8080 | 8290 | Metals | | | | | |
| | | | | | | | | | | | | | | |

BTOC = Below top of casing.
D = Diameter of boring (inches).
d = Diameter of well casing (inches).
gpm = Gallons per minute.
ms/cm = Millisiemens per centimeter.
NTU = Nephelometric turbidity units.
TD = Total depth of casing (feet BTOC).
WL = Water level depth (feet (BTOC).

**FORM 7**

# FORT WAINWRIGHT, ALASKA
## ENVIRONMENTAL ACTIVITIES TRACKING SYSTEM
## GROUND-WATER AND SURFACE-WATER LEVELS

PURPOSE:

The purpose of this form is to allow tracking of ground-water and surface-water level measurement activities on Fort Wainwright Facilities. All measurements should be to the nearest 0.01 foot. This form is to be completed and turned in to the Fort Wainwright Environmental office within two days of water-level measurements. Contact Joseph Malen, 353-6160, for additional information.

MAIN TECHNICAL CONTRACTOR INFORMATION:

Business name: _____ Phone: _____
Project manager contact: _____
Contract number: _____
Project Title: _____ Project # _____

WATER-LEVEL INFORMATION:

| Field Crew | Site ID | Date | Time | Method | Est. Error (feet) | MP to WL (feet) | MP Elev. (feet) | WL Elev. (feet) |
|---|---|---|---|---|---|---|---|---|
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Note: Write down final measurements from duplicates recorded in field notes
MP = measuring point WL = water level
Method = s (steel tape), e (electric tape), o (other, write in)

DO NOT FILL OUT THIS SECTION:

Data form checked:
Agency: _____ Name: _____ Date: _____

Tracking Form # FWWL1A

# FORM 8

## AIR RESPONSE TEST

| | | |
|---|---|---|
| JOB NAME: | JOB NUMBER: | DATE: |
| SITE: | PROJECT MANAGER: | RECORDED BY: |

## VENTING WELL

| | |
|---|---|
| BLOWER MODEL: | BLOWER HORSEPOWER: |
| VENTING WELL NAME: | INJECTION OR EXTRACTION?: |
| FLOW RATE (CFM) START: END: | PRESSURE/VACUUM (IN. $H_2O$) START: END: |

## DYNAMIC RESPONSE

| | |
|---|---|
| WELL NAME: | DISTANCE FROM VENTING WELL (FT): |

| TIME (HR:MIN:SEC) | ELAPSED TIME (SECONDS) | PRESSURE/VACUUM (IN. $H_2O$) | TIME (HR:MIN:SEC) | ELAPSED TIME (SECONDS) | PRESSURE/VACUUM (IN. $H_2O$) |
|---|---|---|---|---|---|
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## STEADY-STATE RESPONSE

| WELL NAME | DISTANCE FROM VENTING WELL (FT) | PRESSURE/VACUUM (IN. $H_2O$) | WELL NAME | DISTANCE FROM VENTING WELL (FT) | PRESSURE/VACUUM (IN. $H_2O$) |
|---|---|---|---|---|---|
| | | | | | |
| | | | | | |
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| | | | | | |

# FORM 9

## DRUM LABEL

FORT WAINWRIGHT Site Location: _____

Contractor: _____

Well/Boring No.: _____

Drum Contents: _____

Depth Interval: _____

Date: _____

USACE POC: _____

# FORM 10
## *LIQUID/SOLID DERA IDW TEMPORARY STORAGE FORM*

CONTRACTOR NAME, CONTRACT NO./DELIVERY ORDER NO. _____

_____

CONTRACTOR POC AND COE POC: _____

_____

LIQUID IDW NO. DRUMS: _____

SOLID IDW NO. DRUMS: _____

IDW ORIGIN (PHYSICAL LOCATION)/DATE: _____

_____

IDW DRM IDENTIFICATION NUMBERS: LIQUID from _____
to _____ from _____ to _____

SAMPLE DATE/TEST METHOD(S): _____

_____

SAMPLE ANALYSIS TURN-AROUND DATE: _____

_____

PROPOSED DISPOSAL MECHANISM (i.e., Landfill, carbon treatment, etc.): _____

_____

PARTY RESPONSIBLE FOR DISPOSAL (NAME): _____

TEMPORARY STORAGE LOCATION: _____

_____

SIGNATURES FOR TEMPORARY STORAGE LOCATION:

| | |
|---|---|
| _____ | _____ |
| DPW, FWA Representative | Contractor Name |
| _____ | _____ |
| Signature | Signature |

Date: _____

# Appendix B QAPjP

# Operable Unit 5
# Quality Assurance Project Plan
# Fort Wainwright, Alaska

## APPROVAL SIGNATURES

**Harding Lawson Associates:**

Tim Gould for George M Drewett

Paul C. Ramert, P.E.
Project Manager

Shaun E. Sexton, P.E.
Quality Assurance Manager

**Subcontractor -**

Project Manager

Quality Assurance Manager

**U.S. Army Corps of Engineers:**

Richard Jackson
Project Manager

Quality Assurance Manager

HLA Project No. 29633

August 16, 1995

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**ATTACHMENT** - Forms

# 1.0 INTRODUCTION

This Quality Assurance Project Plan (QAPjP) has been prepared for remedial investigation/ feasibility study (RI/FS) activities for Operable Unit 5 (OU 5), Fort Wainwright, in Fairbanks, Alaska. The RI/FS activities are being conducted under contract to the U.S. Army Corps of Engineers (USACE), Alaska District. This QAPjP addresses requirements set forth in the U.S. Environmental Protection Agency's (EPA's) interim "Guidelines for the Preparation of Quality Assurance Project Plans" (1980). The formal guidance will be used to produce valid data for the RI/FS project.

Quality assurance (QA) is an integrated program designed to achieve reliable monitoring and measurement data. Quality control (QC) is the routine application of procedures for obtaining prescribed standards of performance in the monitoring and measurement processes. The QA/QC requirements for the RI/FS project are described in the following sections.

Specific activities to be conducted in support of the RI at OU 5 will include the following:

- Collection and quick turnaround analyses of surface and subsurface soil samples from various locations to designate subsequent sample locations and to evaluate the nature and extent of contamination;
- Collection and laboratory analyses of sediment samples to evaluate the nature and extent of contamination;
- Collection and quick turnaround analyses of groundwater and surface-water samples from various locations to designate subsequent sample locations and to characterize the water quality and extent of contamination;
- Collection of information to develop remedial action alternatives.

## 1.1 Terminology

Presented below are definitions of QA/QC terms that are used throughout this QAPjP.

- **Accuracy** - The degree of agreement of a measurement with an accepted reference of true value. Usually expressed in terms of percent recovery.
- **Comparability** - Expresses the confidence with which one data set can be compared to another.
- **Completeness** - The amount of valid data obtained from a measurement system compared to the amount of valid data that was expected.
- **Duplicate** - Two samples collected independently at a sampling location during a single act of sampling. Field duplicates will be numbered separately so that laboratory personnel performing the analyses may not ascertain which samples are duplicates.
- **Laboratory Sample Duplicate** - For every inorganic method, for every 20 samples, a duplicate aliquot is analyzed for the analytes of interest.
- **Method Blank** - Method blanks consist of analyte-free water or soil, processed in the exact manner as the samples within a batch, using identical reagents and solvents.
- **Precision** - A measure of agreement among individual measurements under similar conditions. Usually expressed in terms of the relative percent difference (RPD).
- **Representativeness** - The degree to which a sample or group of samples reflects the characteristics of the media at the sampling point. Includes how well the sampling point represents variations in the parameters under study.
- **Rinsate Blank** - After the equipment has been decontaminated, organic-free water is poured into the sampling device or pumped through it (in the case of sampling pumps), transferred to the sample bottle, and then transported to the laboratory for analysis.

- **Sample Matrix Spike** - For every 20 samples, a sample is selected that represents the matrix and is spiked with analytes specified for each method.
- **Sample Matrix Spike Duplicate** - For every organic method, for every 20 samples, a sample is selected that represents the matrix, and a duplicate spike is performed with the analytes specified for each method.
- **Standard Matrix Spike/QC Check Sample** - A QC check sample consists of either an EPA reference, a National Bureau of Standards (NBS) traceable reference, or a laboratory-prepared spike into a standard matrix (typically deionized water) using stocks made independently of the calibration standards (i.e., same as a standard matrix spike). The QC check sample or standard matrix spike serves one of two purposes, depending on the method:

  1. To verify the standard calibration using an independent standard. Verification occurs when the method involves direct analysis of the sample.
  2. To differentiate between sample matrix interference and analytical procedural error. Sample matrix spikes that fall outside of precision and/or accuracy acceptance criteria indicate either a matrix interference or a problem with the standard analytical procedure. An acceptable QC check sample provides strong evidence that a matrix interference is present.
- **Surrogate Spikes** - Surrogate spikes are specific compounds that are added to every sample analyzed and that are not expected to occur in field samples. The spikes are added to standards, blanks, matrix spikes, and QC check samples, to assess the recovery of all organic methods.
- **Trip Blank** - A sample bottle that is filled with organic-free water in the laboratory, transported to the site, handled like a sample, and returned to the laboratory for analysis (trip blanks are not to be opened in the field). The sample is analyzed for volatile organic compounds (VOCs).

## 2.0 DATA QUALITY ASSURANCE

The overall QA objectives for the RI/FS project are to develop and implement procedures for obtaining and evaluating data in an accurate, precise, and complete manner so that measurement data, sampling procedures, and field measurements provide information that is comparable and representative of actual field conditions.

Analytical methods have been selected on the basis of documented reliability and acceptability, and because they meet the general objectives presented above. Table B-1 presents the analytical methods and analyte reporting levels for chemicals of concern at the OU 5 source areas.

Data quality assessments will evaluate whether laboratory data generated are accurate and consistent with analytical data quality objectives. The laboratories will be initially responsible for performing a review of laboratory data. The USACE North Pacific Division (NPD) laboratory will be responsible for preparing a chemical quality assurance report (CQAR) for all environmental data generated under this project. The CQAR will evaluate the usability of data based on a review of precision, accuracy, and compliance with analytical procedure control limits. In addition, an independent review of the analytical data will be performed according to EPA laboratory data validation guidelines (EPA, 1988a,b). The independent review will verify that data packages are complete, and will check the accuracy and precision of data for a minimum of 10 percent of the reported analytical data. A summary of the analytical data quality objectives is presented in Table B-2.

# 3.0 SAMPLING PROCEDURES

## 3.1 Field Sampling

The RI/FS activities scheduled at OU 5 will include a surface- and subsurface-soil sampling program, a sediment sampling program, groundwater probe installation, monitoring well installation, and a water (groundwater and surface water) sampling program. Sample analyses will be performed at USACE-validated and ADEC-approved laboratories. Some soil and groundwater samples may be analyzed on a quick-turnaround basis. Required sampling techniques and sample locations are included in the Field Sampling Plan (Appendix A). The goals for soil, sediment, surface-water, and groundwater sampling are 1) to collect samples that are representative of field conditions; and 2) to properly identify, preserve, and transport samples to retain their integrity.

## 3.2 QA/QC Samples

Three types of QA/QC samples will be used for the project: trip blanks, rinsate blanks, and duplicates. A definition of each type of sample is presented in section 1.0. QA/QC samples are summarized for each site on Tables B-3 through B-16. In general, QA and QC samples each represent approximately 10 percent of the total number of field samples. Sampling and handling procedures are discussed below.

Trip blanks are used for VOC analyses of water samples, and are prepared by filling sample bottles with organic-free water. Trip blanks are sent to a sampling location with sampling jars, and are returned unopened from the sampling location with the samples and analyzed. One trip blank will be shipped with each cooler of water samples for VOC analysis. Trip blanks will be numbered like water samples, so that they cannot be distinguished from other water samples.

Rinsate blanks are obtained immediately before the samples to which they are related, and are processed by rinsing decontaminated water sampling equipment with organic-free water. The rinse water is collected in sample bottles, preserved, and handled in the same manner as the water samples. Rinsate blank samples will be collected at a minimum frequency of 1 for every 20 investigation water samples (or 5 percent) for both QA and QC. Rinsate blanks will be numbered like other water samples so that the laboratories will not be able to distinguish them.

Sample duplicates are collected for soil and water to evaluate the precision of the sampling and analytical processes. Each duplicate will be a blind sample, meaning the sample will be labeled with a sample number different than the sample being duplicated. Therefore, it is critical that the field team record the sample number and site identification in the field notes. Every effort will be made to collect QA and QC duplicates at the same time and location. The duplicate sample set from each source area, to the extent practicable, will be collected from both contaminated and uncontaminated material.

Duplicates for soil and water VOC and gasoline-range organic (GRO) analyses will be collected before other sample fractions to minimize loss of volatiles. Duplicate fractions for soil and sediment, other than the VOC and GRO fractions, will be collected as splits, meaning they will be thoroughly mixed in a stainless steel bowl and divided into appropriate sample containers. Duplicate samples will be collected at a minimum frequency of 1 for every 10 investigation samples (or 10 percent) for both QA and QC.

## 3.3 Analytical Procedures

The media to be sampled during the OU 5 RI/FS includes surface and subsurface soil, tar, groundwater, surface water, and sediment. The analytical methods to be used are as follows:

- Diesel-range organics (DRO) will be analyzed by gas chromatography (GC) using the Alaska Department of Environmental Conservation (ADEC) modification of EPA Method SW-8100.

- GRO will be analyzed by GC using the ADEC modification of EPA Method SW-8015.
- Fuel identification and quantitation will be analyzed by GC using the USACE modification of EPA Method SW-8015.
- VOCs will be analyzed by GC/mass spectrometry (MS) using EPA Method SW-8260. VOCs in tar will be analyzed by GC/MS using EPA Method 1624.
- Semivolatile organic compounds (SVOCs) will be analyzed by GC/MS using EPA Method SW-8270. SVOCs in tar will be analyzed by GC/MS using EPA Method 1625.
- Dioxins and furans will be analyzed by GC/MS using EPA Method SW-8290.
- Polychlorinated biphenyls (PCBs)/organochlorine pesticides will be analyzed by GC using EPA Method SW-8080.
- Organophosphorous pesticides will be analyzed by GC/MS using EPA Method SW-8140.
- Metals will be extracted (acid digestion) by EPA Method SW-3050. Arsenic will be analyzed by graphite furnace atomic absorption (GFAA) using EPA Method SW-7060. Mercury will be analyzed by cold vapor atomic absorption (CVAA) using EPA Method SW-7470. Selenium will be analyzed by GFAA using EPA Method SW-7740. Lead will be analyzed by GFAA using EPA Method SW-7421. Barium, cadmium, chromium, vanadium, and silver will be analyzed by inductively coupled plasma (ICP) using EPA Method SW-6010.
- Total organic carbon (TOC) will be analyzed using modified American Society of Testing and Materials (ASTM) Method D 4129-82.
- Soil nutrients will be analyzed as follows: Nitrogen as ammonia will be analyzed by EPA Method 350.2. Nitrogen as nitrate/nitrate will be analyzed by EPA Method 353.2. Total Kjeldahl nitrogen will be analyzed by EPA Method 351.3 modified. Orthophosphate will be analyzed by EPA Method 365.2.
- Microbial populations will be enumerated using specific heterotrophic degrader population analysis by most probable number method.
- Physical soil properties will be measured using ASTM methods. Particle size will be measured using ASTM Methods D 421 and D 422. Specific gravity of soil solids will be measured using ASTM Method D 854, and moisture content will be measured using ASTM Method D 2216.

# 4.0 SAMPLE CUSTODY

The primary objective of sample custody is to create an accurate, verified written record that may be used to trace the possession and handling of the samples from the moment of collection until receipt by the laboratory. Adequate sample custody will be achieved by means of appropriate field and analytical documentation. Samples will always accompanied by a chain-of-custody form (Attachment, Form 1). QA laboratory samples will also be accompanied by a QA Sample Form (Attachment, Form 2).

For this project, a sample is defined to be in someone's custody if:

- It is in one's actual physical possession;
- It is in one's view, after being in one's physical possession;
- It is in one's physical possession and then locked or otherwise sealed so that tampering will be evident; or
- It is kept in a secure area, restricted to authorized personnel only.

## 4.1 Chain-of-Custody

A chain-of-custody form will be completed and will accompany every sample and shipment of samples to the laboratory, to establish the documentation necessary to trace sample possession from time of collection. The form will contain the following information:

- Sample number;
- Signature of collector, sampler, or recorder;
- Date and time of collection;
- Place of collection;
- Sample type;
- Analyses requested;
- Signatures of persons involved in chain of possession;
- Inclusive dates of possession
- Cooler temperature before taping for shipment.

The field team will send the original chain-of-custody forms with the samples and will retain copies for the project files. A copy of each chain-of-custody form will be sent to the NPD laboratory. The last chain-of-custody form sent to each laboratory will state in 1-inch-high letters "END OF PROJECT."

The laboratory portion of each form should be completed by personnel at the analytical laboratory and will contain the following information:

- Name of person receiving the sample
- Laboratory sample number
- Date of sample receipt
- Sample condition and temperature

### Quality Assurance Sample Form

A QA Sample Form (Attachment, Form 2) will be completed and will accompany every cooler shipped that contains QA samples. The field team will send the original QA Sample Form with the samples and will retain a copy for the project files.

### Sample Analysis Description Sheet

With each chain-of-custody form, a page will be included detailing the analyses requested and the analyte method detection limits required.

### Transfer of Custody and Shipment

When transferring the samples, the individuals relinquishing and receiving the samples will sign, date, and note the time on the chain-of-custody form. Samples will be properly packaged for shipment, as described in section 5.0. Samples will be shipped within 24 hours of collection by express carrier (weekends and holidays being exceptions). The analytical laboratory

coordinators will be notified of when and how samples were sent. Notification will include the following:

- Date of shipment;
- Name of shipping company;
- Airbill number;
- Number of coolers;
- Name, phone number, and facsimile number of point of contact;
- Estimated date of shipment arrival;
- Type of samples (water, sediment, or soil).

On receipt of each sample cooler and after verification of the chain-of-custody records, the project laboratories will fill out a Cooler Receipt Form documenting the condition of the samples.

## 4.2 Documentation

Field personnel will maintain documentation of both administrative and technical activities. The following types of documentation are required:

- Field logs
- Boring logs
- Well completion forms
- Probe completion forms
- Well development documentation
- Groundwater sampling data form
- Sample record logs
- Equipment calibration logs
- Photographs

### Sample Labels

Sample labels will be required for all samples. Site- and time-dependent information will be added to the labels using indelible ink. The labels will be protected from water and solvents with clear label protection tape. Each label will contain the following information:

- Project name
- Name of collector
- Date and time of collection
- Place of collection
- Sample number
- Preservation
- Depth of sample (soil samples only)
- Method of analysis

The samples will be numbered as follows: 95FWXXYYZZ, where FW is Fort Wainwright, XX is the site number, YY is the sample number at the site, and ZZ is the sample type. Field QA and QC samples will be labeled and numbered so that the laboratory cannot distinguish them from other site samples.

Sample site number designations will be as follows:

| Site Number | Site Name |
|---|---|
| 01 | West Section, Former Quartermaster's Fueling System Source Area |
| 02 | East Section, Former Quartermaster's Fueling System Source Area |
| 03 | Former Explosive Ordnance Disposal Source Area |

Sample type designations are as follows:

| Sample Designation | Sample Type |
|---|---|
| SS | Surface soil |
| SL | Subsurface soil |
| SD | Sediment |
| TR | Tar |
| SW | Surface water |
| WA | Groundwater |

### Field Logs

The project field supervisor will be required to maintain a bound field logbook of daily activities. Activities should be recorded contemporaneously. Field logs will include the following information:

- Name of author, and date and time of entry;
- Location of activity;
- Names and affiliations of personnel onsite;
- Field observations and comments;

- Health and safety comments;
- Conversations with USACE and Directorate of Public Works (DPW) representatives;
- Number of hours worked.

The field logs will be signed at the end of each day.

### Sample Record Log

The field supervisor will maintain a sample record log spreadsheet that will contain the following information:

- Sample number
- Sampling location
- Date and time of sample collection
- Sample depth
- Analyses requested
- Number of containers
- Type of sample if it is a QA/QC sample
- Date shipped
- Airbill number

### Photographs

Photographs will be taken in the field to document sampling locations and conditions. Photographs of all samples will be taken with the sample number and depth clearly visible. A photographic log will be kept in which the date, location, and direction faced (if appropriate) are noted. Photographs and negatives will be labeled and placed in a binder and submitted to the USACE at the end of the project.

### Documentation Control

Project files will be maintained by the project task manager. Documents will be kept in project files. Project personnel may keep their own files; however, all official and original documents will be placed in the official project file.

Field logs of boring, sampling, and well installation will be maintained by the field supervisor and submitted to the task manager after the field effort.

## 5.0 SAMPLE HANDLING, PACKAGING, AND SHIPPING

The specific methods for sample container size and type, sample preservation and holding times, and any special handling requirements for samples collected at OU 5 are presented in Tables B-3 through B-16. All sample containers will be obtained from a commercial supplier, the project laboratory, or the USACE. The containers will be verified as precleaned and will be obtained in sealed boxes.

Samples will be packaged for shipment according to Department of Transportation (DOT) regulations. The method of shipment, courier name(s), and other pertinent information will be entered on the chain-of-custody form.

To minimize the potential for degradation and to maintain a temperature of 4 degrees Celsius (°C), samples will be placed with an ice substitute in a cooler. The chain-of-custody form will be filled out in ink, placed in a plastic bag, and taped to the inside lid of the shipping cooler. Each cooler will be sealed with custody seal to readily show evidence of tampering. Marking and labeling procedures will be consistent with DOT regulations. Airbills will be properly completed, and copies will be retained and placed in the project file.

The following checklist details the procedures for sample packaging and shipment:

- For water samples other than those for VOC analyses, mark the sample volume with a grease pencil (sample bottles for VOC and GRO analyses should be completely filled, with no headspace).
- Place a layer of ice substitute and cushioning material in the bottom of the cooler. Then place a layer of cushioning material over the ice substitute.
- Wrap each bottle with a layer of bubble wrap. With the exception of 40-ml and 2-ounce containers, enclose each bottle in a separate, clear plastic bag and seal each bag. Single samples consisting of two or three 40-ml or 2-ounce containers may be placed together in a single plastic bag after they are individually wrapped to prevent glass-to-glass contact. Place the bottles upright in the cooler so that they will not touch during shipment.
- Place additional cushioning material to cover sample bottles and fill voids between bottles. Then place the ice substitute into the cooler.
- Fill the cooler with cushioning material.
- Tape the cooler drain shut.
- Place completed chain-of-custody form (see section 4.1), appropriate QA Sample Form, note indicating destination for return of cooler, and sample analysis description sheet in a plastic bag, and tape the bag to the inside lid of the cooler.
- Secure the lid by wrapping the cooler with strapping tape at two locations. Tape the cooler latch closed with strapping tape.
- Seal the cooler with custody seals in three places other than the areas with strapping tape and the hinged side. Sign and date custody seals. The signature on the custody seals should match the signature on the chain of custody.
- Attach the completed shipping label to the top of the cooler; affix "This side up" labels on all four sides, and "Fragile" and "Chill, Do Not Freeze" labels on at least two sides.

# 6.0 EQUIPMENT MAINTENANCE AND CALIBRATION

## 6.1 Field Equipment

Field measurement equipment will be calibrated, maintained, cleaned, and stored in accordance with manufacturers' recommended procedures. The field equipment will be calibrated daily before fieldwork begins. Complete equipment manuals will accompany each instrument. Calibrations and maintenance for each instrument will be recorded on the Instrument Calibration and Maintenance logs that accompany each instrument. Field measurement equipment will be kept as clean as possible for accurate performance and to reduce cross contamination. Sampling probes that are immersed in sample media will be rinsed and stored in deionized water.

## 6.2 Laboratory Instrumentation

Routine maintenance of laboratory instruments may be performed by NPD and USACE contract laboratory personnel. Repairs should be performed by trained staff or through service agreements by trained service engineers employed by the instrument manufacturer.

# 7.0 DATA VALIDATION

## 7.1 Field Measurement Data

HLA personnel will validate data obtained from field measurements by checking procedures used in the field and comparing the data to previous measurements. Data that cannot be validated will be so documented.

The following reporting requirements will be followed for field data:

- pH: Field measurements will be reported to 0.1 unit.
- Electrical conductivity: Field measurements will be reported to the nearest 0.01 millisiemen per centimeter.
- Water levels: Measurements will be repeated until at least two are within 0.01 foot.
- Temperature: Field measurements will be reported to the nearest 0.1°C.
- Turbidity: Field measurements will be reported to the nearest 1 nephelometric turbidity unit (NTU).
- Soil sample depths: Tape measurements will be made to the nearest 0.1 foot; measurements made by known lengths of drill string will be made to the nearest 0.5 foot.
- Locations of sampling sites: Sampling locations will be referenced to fixed objects and recorded on site maps.
- Flow rates: Discharge rates during well development and well purging will be calculated to within 1 gallon per minute (gpm) to estimate well productivity.
- Photoionization detector: Field measurements of organic vapors encountered during drilling will be recorded to the nearest 1.0 part per million (ppm).

## 7.2 Laboratory Analytical Data

Laboratory data review and validation procedures will be performed by the NPD and USACE contract laboratories as described in ER 1110-1-263 (USACE, 1990). The following minimum QA/QC information should be included in the reported data batch:

- Narrative cover letter explaining corrective actions taken on reported data and/or data falling outside the method or QA specifications;
- Sample data (matrix, date sampled, date received, date of extraction, and date of analysis);
- Parameter, result, and test method identification;
- Results that are uncorrected for any method blank contamination;
- Sample-specific detection limits for each parameter;
- Results of laboratory control data, method blanks, spikes, and replicates;
- Copies of chain-of-custody forms.

The NPD and USACE contract laboratories will submit a data report in accordance with USACE requirements.

# 8.0 DATA QUALITY CONTROL

Data quality will be assessed by analyzing field QC and QA samples, and laboratory QC samples. Field QC samples will be submitted to the USACE contract laboratory for analyses, and field QA samples will be submitted to the NPD laboratory. Laboratory QC samples will be prepared and analyzed by the USACE contract and NPD laboratories.

## 8.1 Field Quality Control

Procedures for the preparation, collection, frequency of use, and identification of field QC samples are presented in section 3.2 and in Tables B-3 through B-16.

## 8.2 Laboratory Quality Control

Laboratory QC procedures are those steps taken by the USACE contract and NPD laboratories in day-to-day activities to achieve desired precision, accuracy, completeness, representativeness, and comparability. Each analytical chemistry department manager and analyst will be responsible for performing the analysis in accordance with the defined QC practices outlined in ER 1110-1-263 (USACE, 1990).

### Precision

Precision is a measure of agreement among analyses performed using the same test procedure, and is estimated by the RPD between duplicate samples. Precision will be assessed by analyzing field duplicates and/or matrix spike duplicates, calculating the RPD, and comparing the RPD to acceptance criteria. The analyses of field duplicates and laboratory duplicates will provide information on the precision of sample collection and analysis methodologies. Sub-standard precision in laboratory samples and subsequent corrective actions will be documented by the analytical laboratory and reviewed by the task manager and QA officer. The RPD of two duplicate samples will be calculated as follows:

$$RPD = \frac{D_1 - D_2}{(D_1 + D_2)/2} \times 100$$

Where: $D_1$ and $D_2$ = Concentration of duplicates 1 and 2, respectively.

### Accuracy

Accuracy is the degree of agreement between a sample's target value (known concentration) and the actual measured value. Accuracy will be assessed by means of reference samples and percent recoveries. In addition to sample matrix spikes and surrogate spikes, a QC check sample consisting of commercial reference samples or spikes into a standard matrix (typically reagent water) will be analyzed, and "found values" will be compared to true or known values to assess accuracy. Results of the comparison will be expressed in terms of percent recovery.

The QC check sample will also be used to assess the effects of any sample matrix interferences. If recoveries of matrix spikes are out of expected ranges and QC check samples show acceptable recoveries, then strong evidence exists that the sample matrix is affecting method accuracy. Accuracy for this project is measured by calculating the percent recovery of known levels of spike compounds into appropriate sample matrices. Percent recovery is calculated as follows:

$$\% R = (Q_d / Q_a) \times 100$$

Where: % R = Percent recovery

$Q_d$ = Quantity detected by analysis minus unspiked sample quantity

$Q_a$ = True or accepted reference quantity or value

## Completeness

Completeness is defined as "a measure of the amount of valid data obtained from a measurement system compared to the amount that was expected to be obtained under correct normal conditions" (EPA, 1980). Following completion of the analytical testing, percent completeness will be calculated as follows:

$$\text{Completeness (percent) for parameter y} = \frac{\text{number of valid y values reported}}{\text{number of samples planned for analysis of y}} \times 100$$

## Documentation

Data validation procedures are described in section 7.0. The review of analytical and QC data begins at the bench-chemist level. The chemists will be aware of the QC requirements for the project and will verify that calibration and other QC requirements are met before sample analysis continues. QC checks are part of the data programs. The following will be achieved before the final data report is published:

- Sufficient number of initial and continuing calibration standards,
- Sample responses bracketed by the calibration standards responses,
- Minimum calibration coefficient,
- Sufficient number and types of QC samples in the data batch,
- Accuracy and precision for each type of QC sample,
- Verification that holding times for extraction and analysis have been met.

If any of these checks are not met, the data will be further reviewed and will be signed by the laboratory project manager.

## Representativeness

Representativeness expresses the degree to which data accurately and precisely represent a characteristic of a population, parameter variations at a sampling point, a process condition, or an environmental condition. Standardized, uniform field procedures will be implemented to achieve adequate representativeness of data. These field procedures are described in sections 4 and 5.

## Comparability

Comparability expresses the confidence with which one data set may be compared to another. Procedures to attain comparability will include

- Using the EPA SW-846 method of analysis, or
- Using ASTM methods, and
- Reporting data in conventional and standard units.

## 9.0 PERFORMANCE AND SYSTEM AUDITS

Two types of audits may be used to assess and document performance of project staff: system audits and performance audits. These audits are performed at frequent intervals under the direction of the designated QA officer(s). The audits form one of the bases for corrective action requirements and constitute a permanent record of the conformance of measurement systems to QA requirements.

System audits are inspections of training status, records, QC data, calibrations, and conformance to standard operating procedures without the analysis of check samples. System audits may be performed periodically on office operations. System audits on laboratory operations are the responsibility of the USACE contract and NPD laboratories.

The system audit protocol is summarized as follows:

- Office Operations - The QA officer or designee may review
  - Field notebooks and log sheets
  - Field sampling plans
  - Project reports
- Laboratory Operations - The NPD laboratory project QA supervisor may review
  - Parameter and/or laboratory notebooks;
  - Instrument logbooks;
  - Sample log-in, dispensing, and labeling for analysis;
  - QC criteria updates for spike recoveries.

In addition, the project QA supervisor may monitor analyses for adherence to approved analytical methods.

- Final Reports - Peer review of all deliverable reports and data supporting the project will be performed by technically qualified individuals from each major discipline represented in the deliverable.

Performance audits may include completing field audits. Performance audit protocol is summarized as follows:

- Field Operations - The QA officer or designee may perform field audits. The following items may be checked during the audits:
  - Field notebooks, instrument calibration logs, field procedures, field logs of boring, well completion detail sheets, and other documentation;
  - Site safety practices;
  - Sampling methods.

# 10.0 CORRECTIVE ACTION

Corrective action responses and reestablishment of control are discussed in the following sections.

## 10.1 Response

Corrective action will be initiated when potential or existing field or laboratory conditions are identified that may adversely impact data quantity or quality. Events that may lead to corrective action include the following:

- Violation of established analytical controls
- Performance, system, or QA audits
- Laboratory/field comparison studies

Corrective action may take several forms, but the following steps usually are included:

- Check the calculations;
- Check the instrument for proper setup;
- Reanalyze the control item, as appropriate.

The task manager, field supervisor, QA officer, sampling personnel, and NPD laboratory analysts may be involved in the corrective action. The corrective action may be immediate or long term. An immediate corrective action may be recalculating, reanalyzing, or repeating sample collection. Long-term corrective action may be identified through performance evaluation samples, standards, control charts, or other devices.

## 10.2 Reestablishment Of Control

Immediate corrective action is usually applied to spontaneous, nonrecurring problems. Instrument and equipment malfunctions are corrected by this type of action. The individual who suspects nonconformance to previously established criteria or protocol in equipment, instruments, data, or methods will immediately notify his/her supervisor and document the occurrence (field log, data report, etc.). If a large quantity of data is affected, the QA reviewer may prepare a memorandum to the QA officer and the task manager. These individuals will collectively decide how to proceed.

Analytical control limits are established and maintained by the laboratory for initial laboratory control standards, spike recoveries, QC check standards, duplicates, and surrogate recoveries. In addition, acceptance criteria have been established for calibrations, sensitivity checks, and method blanks. If the corrective action steps listed above fail to eliminate the problem, more serious actions may be implemented. The laboratory control sample and spike recoveries may be compared to reveal matrix interferences. Recalibration of the instrument may be called for, and, in certain cases, an entire batch may be reanalyzed. Analytical out-of-control situations will be documented and reviewed on a case-by-case basis.

Corrective actions taken in the field will be documented in the field notebook for review by the field supervisor and the task manager. Problems associated with sample collection, sample handling, and equipment failures will be immediately presented to the field supervisor and/or the task manager for resolution. Depending on the nature of the problem, corrective actions instituted may vary from re-analysis of samples, to recalibration of equipment, to reevaluation of standard operating procedures. The person initially responsible for implementing corrective actions in the field will be the field supervisor or the task manager.

So that representative samples are chosen, the task manager will conduct a pre-field meeting to discuss the scope, data objectives, and procedures to be used on the project. The meeting will also include a discussion of the site-specific health and safety aspects of the project. The task manager will document attendees and issues discussed. If the QA checks of field or laboratory sampling activities indicate that the acceptance criteria described in section 8.2 are not being met, reanalysis of the samples may be instituted. If sample holding times are exceeded before reanalysis, resampling may be required. The

decision to resample may be based on site-specific issues but will address the following concerns:

- Usability of data (e.g., exceeding the 6-month holding time for metal analysis probably would have little impact on data quality, whereas missing the benzene, toluene, ethylbenzene, and xylenes [BTEX] holding time may greatly reduce data quality);
- Availability/accessibility of sample location;
- Quantity of usable data available;
- Type and use of information generated.

If the laboratory data quality objectives identified in section 2.0 cannot be met, a decision process similar to that described above will be used to evaluate the appropriateness of the data objectives and the usability of the information generated.

Depending on the nature of the problem, the corrective action employed may be formal or informal. In either case, occurrence of the problem, corrective action employed, and verification that the problem has been addressed will be documented.

## 11.0 QUALITY ASSURANCE REPORTS TO MANAGEMENT

The NPD laboratory will conduct a review of the analytical data and the QA sample data, and will prepare a CQAR. The CQAR will summarize results of the QA laboratory's data review.

In addition, an independent review of analytical data and data deliverables (see section 2.0) will be performed by the QA officer (or designee) and a project QA report will be prepared. The QA report may include

- The results of the independent analytical data review,
- The results of the NPD laboratory CQAR,
- The results of field operations audits,
- The results of office operations audits.

## 12.0 BIBLIOGRAPHY


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# TABLES

## Table B-1. Comparison of Risk-Based Concentrations, Maximum Contaminant Levels, and Method Reporting Limits for Soil and Water

| | Chemicals of Potential Concern | Soil MRL[a] (mg/kg) | Residential Soil RBC (mg/kg) | Water MRL (µg/L) | Tap Water RBC (µg/L) | Drinking Water MCL (µg/L) |
|---|---|---|---|---|---|---|
| | Volatile Organic Compounds - EPA Method 8260 | | | | | |
| * | 1,1-Dichloroethene | 0.01 | 1.1 c | 1 | 0.044 c | 7 |
| | 1,1,1-Trichloroethane | 0.01 | 7,000 n | 1 | 1,300 n | 200 |
| * | 1,1,2-Trichloroethane | 0.01 | 11 c | 1 | 0.19 c | 5 |
| * | 1,1,2,2-Tetrachloroethane | 0.01 | 3.2 c | 1 | 0.52 c | -- |
| * | 1,2-Dichloroethane | 0.01 | 7 c | 1 | 0.12 c | 5 |
| * | 1,2-Dichloropropane | 0.01 | 9.4 c | 5 | 0.16 c | 5 |
| * | 1,2-Dibromo-3-chloropropane | 0.01 | 0.046 c | 1 | 0.048 c | -- |
| * | 1,2-Dibromoethane (EDB) | 0.01 | 0.0075 c | 1 | 0.00075 c | -- |
| | 1,2-Dichlorobenzene | 0.01 | 7,000 n | 1 | 370 n | 600 |
| | 1,2,3-Trichlorobenzene | 0.01 | -- | 1 | -- | -- |
| | 1,2,4-Trichlorobenzene | 0.01 | 780 n | 1 | 190 n | 70 |
| * | 1,2,3-Trichloropropane | 0.01 | 0.091 c | 1 | 0.0015 c | -- |
| | 1,2,4-Trimethylbenzene | 0.01 | 39 n | 1 | 3 n | -- |
| | 1,3,5-Trimethylbenzene | 0.01 | 31 n | 1 | 2.4 n | -- |
| | 1,3-Dichlorobenzene | 0.01 | 7,000 n | 1 | 540 n | -- |
| * | 1,4-Dichlorobenzene | 0.01 | 27 c | 1 | 0.44 c | 75 |
| | 1,1-Dichloroethane | 0.01 | 7,800 n | 1 | 810 n | -- |
| | 1,3-Dichloropropane | 0.01 | -- | 1 | -- | -- |
| | 1,1-Dichloropropene | 0.01 | -- | 1 | -- | -- |
| | 1,1,1,2-Tetrachloroethane | 0.01 | 25 c | 1 | 0.41 c | -- |
| | 2,2-Dichloropropane | 0.01 | -- | 1 | -- | -- |
| | 2-Butanone | 0.01 | 4,700 n | 2 | 22,000 n | -- |
| | 2-Chlorotoluene | 0.01 | -- | 1 | -- | -- |
| | 4-Chlorotoluene | 0.01 | -- | 1 | -- | -- |
| | Acetone | 0.01 | 7,800 n | 2 | 3,700 n | -- |
| * | Benzene | 0.01 | 22 c | 1 | 0.36 c | 5 |
| | Bromobenzene | 0.01 | -- | 1 | -- | -- |
| | Bromochloromethane | 0.01 | -- | 1 | -- | -- |
| * | Bromodichloromethane[b] | 0.01 | 10 c | 1 | 0.17 c | 100 |
| | Bromoform[b] | 0.01 | 81 c | 1 | 2.4 c | 100 |
| | Bromomethane | 0.01 | 110 n | 1 | 8.7 n | -- |
| * | Carbon tetrachloride | 0.01 | 4.9 c | 1 | 0.16 c | 5 |
| | Chlorobenzene | 0.01 | 1,600 n | 1 | 39 n | 100 |
| | Chloroethane | 0.01 | 31,000 n | 1 | 8,600 n | |
| * | Chloroform[b] | 0.01 | 100 c | 1 | 0.15 c | 100 |
| | Chloromethane | 0.01 | 49 c | 1 | 1.4 c | -- |
| | cis-1,3-Dichloropropene | 0.005 | -- | 1 | -- | -- |
| | cis-1,2-Dichloroethene | 0.01 | 780 n | 1 | 61 n | 70 |
| * | Dibromochloromethane[b] | 0.01 | 7.6 c | 1 | 0.13 c | -- |
| | Dibromoethane | 0.01 | -- | 1 | -- | -- |
| | Dichlorodifluoromethane | 0.01 | 1,600 n | 1 | 390 n | -- |
| | Ethylbenzene | 0.01 | 7,800 n | 1 | 1,300 n | 700 |
| * | Hexachlorobutadiene | 0.01 | 8.2 c | 1 | 0.14 c | -- |
| | Isopropylbenzene | 0.01 | -- | 1 | -- | -- |
| | Methylene chloride | 0.01 | 85 c | 2 | 4.1 c | 5 |
| | n-Butylbenzene | 0.01 | -- | 1 | -- | -- |
| | n-Propylbenzene | 0.01 | -- | 1 | -- | -- |
| | Naphthalene | 0.01 | 3,100 n | 1 | 1,500 n | -- |
| | p-Isopropyltoluene | 0.01 | -- | 1 | -- | -- |
| | sec-Butylbenzene | 0.01 | 780 n | 1 | 61 n | -- |

## Table B-1. Comparison of Risk-Based Concentrations, Maximum Contaminant Levels, and Method Reporting Limits for Soil and Water (continued)

| | Chemicals of Potential Concern | Soil MRL[a] (mg/kg) | Residential Soil RBC (mg/kg) | Water MRL (µg/L) | Tap Water RBC (µg/L) | Drinking Water MCL (µg/L) |
|---|---|---|---|---|---|---|
| | Volatile Organic Compounds - EPA Method 8260 | | | | | |
| | Styrene | 0.01 | 20 c | 1 | 2 c | 100 |
| | tert-Butylbenzene | 0.01 | 780 n | 1 | 61 n | -- |
| | Tetrachloroethene | 0.01 | 12 c | 1 | 1.1 c | 5 |
| | Toluene | 0.01 | 16,000 n | 1 | 750 n | 1,000 |
| | Xylenes | 0.01 | 160,000 n | 1 | 12,000 n | 10,000 |
| | trans-1,2-Dichloroethene | 0.01 | 1,600 n | 1 | 120 n | 100 |
| | trans-1,3-Dichloropropene | 0.005 | 80 n | 1 | 9 n | -- |
| | Trichloroethene | 0.01 | 2,000 n | 1 | 1.6 c | 5 |
| | Trichlorofluoromethane | 0.01 | 23,000 n | 1 | 1,300 n | -- |
| * | Vinyl chloride | 0.01 | 0.34 c | 1 | 0.019 c | 2 |
| | Semivolatile Organic Compounds - EPA Method 8270 | | | | | |
| | 1,2-Dichlorobenzene | 0.33 | 7,000 n | 5 | 370 n | 600 |
| | 1,3-Dichlorobenzene | 0.33 | 7,000 n | 5 | 540 n | -- |
| | 1,2,4-Trichlorobenzene | 0.33 | 780 n | 5 | 190 n | 70 |
| | 2,4-Dimethylphenol | 0.33 | 1,600 n | 5 | 730 n | -- |
| | 2,4-Dichlorophenol | 0.33 | 240 n | 5 | 110 n | -- |
| * | 2,4,6-Trichlorophenol | 0.33 | 5.8 c | 5 | 1.6 c | -- |
| | 2,4,5-Trichlorophenol | 0.8 | 7,800 n | 20 | 3,700 n | -- |
| | 2,4-Dinitrophenol | 0.33 | 160 n | 20 | 73 n | -- |
| | 2,4-Dinitrotoluene | 0.33 | 160 n | 5 | 73 n | -- |
| | 2,6-Dinitrotoluene | 0.33 | 78 n | 5 | 37 n | -- |
| | 2-Chloronaphthalene | 0.33 | 20,000 n | 5 | 3,000 n | -- |
| | 2-Chlorophenol | 0.33 | 390 n | 5 | 180 n | -- |
| | 2-Methylnaphthalene | 0.33 | -- | 5 | -- | -- |
| | 2-Methylphenol | 0.33 | 3,900 n | 5 | 1,800 n | -- |
| * | 2-Nitroaniline | 0.8 | 4.7 n | 50 | 2.2 n | -- |
| | 2-Nitrophenol | 0.33 | 50,000 n | 5 | 7,000 n | -- |
| * | 3,3-Dichlorobenzidine | 0.33 | 1.4 c | 5 | 0.15 c | -- |
| | 3-Nitroaniline | 0.33 | 230 n | 20 | 110 n | -- |
| | 4,6-Dinitro-2-methylphenol | 0.8 | -- | 20 | -- | -- |
| | 4-Bromophenyl phenyl ether | 0.33 | 4,500 n | 5 | 2,100 n | -- |
| | 4-Chloro-3-methylphenol | 0.33 | -- | 5 | -- | -- |
| | 4-Chloroaniline | 0.33 | 310 n | 5 | 150 n | -- |
| | 4-Chlorophenyl phenyl ether | 0.33 | -- | 5 | -- | -- |
| | 4-Methylphenol | 0.33 | 390 n | 5 | 180 n | -- |
| | 4-Nitroaniline | 0.8 | 230 n | 20 | 110 n | -- |
| | 4-Nitrophenol | 0.33 | 4,800 n | 20 | 2,300 n | -- |
| | Acenaphthene | 0.33 | 20,000 n | 5 | 2,000 n | -- |
| | Acenapthylene | 0.33 | 4,700 n | 5 | 2,200 n | -- |
| | Anthracene | 0.33 | 23,000 n | 5 | 11,000 n | -- |
| * | Benzo(a)anthracene | 0.33 | 0.88 c | 5 | 0.0092 c | -- |
| * | Benzo(a)pyrene | 0.33 | 0.088 c | 10 | 0.0092 c | 0.2 |
| * | Benzo(b)fluoranthene | 0.33 | 0.88 c | 10 | 0.0092 c | -- |
| | Benzo(g,h,i)perylene | 0.33 | -- | 5 | -- | -- |
| * | Benzo(k)fluoranthene | 0.33 | 8.8 c | 10 | 0.92 c | -- |
| | Benzoic acid | 0.33 | 310,000 n | 5 | 150,000 n | -- |
| | Benzyl alcohol | 0.33 | 23,000 n | 5 | 11,000 n | -- |
| | bis(2-Chloroethoxy)methane | 0.33 | -- | 5 | -- | -- |
| * | bis(2-Chloroethyl)ether | 0.33 | 0.58 c | 10 | 0.0092 c | -- |
| * | bis(2-Chloroisopropyl)ether | 0.33 | 9.1 c | 5 | 0.26 c | -- |
| * | bis(2-Ethylhexyl)phthalate | 0.33 | 46 c | 5 | 4.8 c | 6 |
| | Butyl benzyl phthalate | 0.33 | 16,000 n | 5 | 7,300 n | -- |
| * | Chrysene | 0.33 | 88 c | 10 | 9.2 c | -- |

## Table B-1. Comparison of Risk-Based Concentrations, Maximum Contaminant Levels, and Method Reporting Limits for Soil and Water (continued)

| | Chemicals of Potential Concern | Soil MRL[a] (mg/kg) | Residential Soil RBC (mg/kg) | Water MRL (µg/L) | Tap Water RBC (µg/L) | Drinking Water MCL (µg/L) |
|---|---|---|---|---|---|---|
| | Semivolatile Organic Compounds - EPA Method 8270 | | | | | |
| | di-n-Butylphthalate | 0.33 | 30,000 n | 5 | 4,000 n | -- |
| | di-n-Octyl-phthalate | 0.33 | 1,600 n | 5 | 730 n | -- |
| * | Dibenzo(a,h)anthracene | 0.33 | 0.088 c | 10 | 0.0092 c | -- |
| | Dibenzofuran | 0.33 | 300 n | 5 | 40 n | -- |
| | Diethylphthalate | 0.33 | 63,000 n | 5 | 29,000 n | -- |
| | Dimethyl phthalate | 0.33 | 780,000 n | 5 | 370,000 n | -- |
| | Fluoranthene | 0.33 | 3,100 n | 5 | 1,500 n | -- |
| | Fluorene | 0.33 | 3,100 n | 5 | 1,500 n | -- |
| * | Hexachlorobenzene | 0.33 | 0.4 c | 10 | 0.0066 c | 1 |
| * | Hexachlorobutadiene | 0.33 | 500 n | 5 | 0.14 c | -- |
| * | Hexachlorocyclopentadiene | 0.33 | 550 n | 5 | 0.15 n | 50 |
| | Hexachloroethane | 0.33 | 300 n | 5 | 40 n | -- |
| * | Indeno(1,2,3-cd)pyrene | 0.33 | 0.88 c | 10 | 0.092 c | -- |
| | Isophorone | 0.33 | 50,000 n | 5 | 7,000 n | NA |
| * | n-Nitroso-di-n-propylamine | 0.33 | 0.091 c | 10 | 0.0096 c | -- |
| | n-Nitrosodiphenylamine | 0.33 | 130 c | 5 | 14 c | -- |
| | Naphthalene | 0.33 | 3,100 n | 5 | 1,500 n | -- |
| * | Nitrobenzene | 0.33 | 39 n | 5 | 3.4 n | -- |
| * | Pentachlorophenol | 0.8 | 5.3 c | 50 | 0.56 c | 1 |
| | Phenanthrene | 0.33 | -- | 5 | -- | -- |
| | Phenol | 0.33 | 47,000 n | 5 | 22,000 n | -- |
| | Pyrene | 0.33 | 2,300 n | 5 | 1,100 n | -- |
| | Polychlorinated Biphenyls (PCBs)/ Pesticides - EPA Method 8080 | | | | | |
| | 4,4'-DDD | 0.0033 | 2.7 c | 0.02 | 0.28 c | -- |
| | 4,4'-DDE | 0.0033 | 1.9 c | 0.02 | 0.2 c | -- |
| | 4,4'-DDT | 0.0033 | 100 n | 0.02 | 0.2 c | -- |
| * | Aldrin | 0.0017 | 0.038 c | 0.01 | 0.004 c | NA |
| | Alpha BHC | 0.0017 | 0.1 c | 0.01 | 0.01 c | NA |
| | Aroclor 1016 | 0.033 | 5.5 n | 0.2 | 2.6 n | -- |
| * | Aroclor 1221 | 0.067 | 0.083 c | 0.2 | 0.0087 c | -- |
| * | Aroclor 1232 | 0.033 | 0.083 c | 0.2 | 0.0087 c | -- |
| * | Aroclor 1242 | 0.033 | 0.083 c | 0.2 | 0.0087 c | -- |
| * | Aroclor 1248 | 0.033 | 0.083 c | 0.2 | 0.0087 c | -- |
| * | Aroclor 1254 | 0.033 | 0.083 c | 0.2 | 0.0087 c | -- |
| * | Aroclor 1260 | 0.033 | 0.083 c | 0.2 | 0.0087 c | -- |
| | Beta BHC | 0.0017 | 0.4 c | 0.01 | 0.05 c | -- |
| | Chlordane | 0.0017 | 0.49 c | 0.01 | 0.052 c | 2 |
| | Delta BHC | 0.0017 | -- | 0.01 | -- | -- |
| | Dieldrin | 0.0033 | 0.04 c | 0.02 | 0.0042 c | -- |
| | Endosulfan ( I, II ) | 0.0033 | 470 n | 0.02 | 220 n | -- |
| | Endosulfan sulfate | 0.0033 | -- | 0.02 | -- | -- |
| | Endrin | 0.0033 | 23 n | 0.02 | 11 n | 2 |
| | Endrin aldehyde | 0.0033 | -- | 0.02 | -- | -- |
| | Heptachlor | 0.0017 | 0.14 c | 0.01 | 0.0023 c | 0.4 |
| * | Heptachlor epoxide | 0.0017 | 4 n | 0.01 | 0.0012 c | 0.2 |
| * | Lindane | 0.0017 | 0.5 c | 0.01 | 0.06 c | 0.2 |
| * | Methoxychlor | 0.017 | 0.5 c | 0.1 | 0.06 c | 40 |
| * | PCBs (total) | 0.1 | 0.083 c | 0.2 | 0.0087 c | 0.5 |
| * | Toxaphene | 0.17 | 0.58 c | 1 | 0.061 c | 3 |

## Table B-1. Comparison of Risk-Based Concentrations, Maximum Contaminant Levels, and Method Reporting Limits for Soil and Water (continued)

| | Chemicals of Potential Concern | Soil MRL[a] (mg/kg) | Residential Soil RBC (mg/kg) | Water MRL (µg/L) | Tap Water RBC (µg/L) | Drinking Water MCL (µg/L) |
|---|---|---|---|---|---|---|
| | Pesticides (Organophosphorous) - EPA Method 8140 | | | | | |
| | Azinphos methyl | 5 | -- | 0.1 | -- | -- |
| | Bolstar | 3.5 | -- | 0.07 | -- | -- |
| | Chlorpyrifos | 5 | 230 n | 0.07 | 110 n | -- |
| | Coumaphos | 10 | -- | 0.2 | -- | -- |
| * | Demeton-O and Demeton-S | 6 | 3.1 n | 0.12 | 1.5 n | -- |
| | Diazinon | 10 | 70 n | 0.2 | 33 n | -- |
| * | Dichlorvos | 40 | 2.2 n | 0.8 | 0.23 n | -- |
| * | Disulfoton | 3.5 | 3.1 n | 0.07 | 1.5 n | -- |
| | Ethoprop | 10 | -- | 0.2 | -- | -- |
| | Fensulfothion | 4 | -- | 0.08 | -- | -- |
| | Fenthion | 5 | -- | 0.08 | -- | -- |
| * | Merphos | 10 | 2.3 n | 0.2 | 1.1 n | -- |
| | Mevinphos | 25 | -- | 0.5 | -- | -- |
| | Naled | 25 | 160 n | 0.5 | 73 n | -- |
| | Parathion methyl | 6 | -- | 0.12 | -- | -- |
| | Phorate | 2 | 16 | 0.04 | 7.3 n | -- |
| | Ronnel | 3.5 | 3,900 n | 0.07 | 1,800 n | -- |
| * | Stirophos | 40 | 27 c | 80 | 2.8 c | -- |
| | Takuthion | 5.5 | -- | 0.07 | -- | -- |
| | Dioxins/Furans - EPA Method 8290 | | | | | |
| | 1,2,3,4,6,7,8-HpCDD | 0.2 - 0.5E-06 | -- | 0.5 - 1.0E-05 | -- | -- |
| | 1,2,3,4,6,7,8-HpCDF | 0.2 - 0.5E-06 | -- | 0.5 - 1.0E-05 | -- | -- |
| | 1,2,3,4,7,8,9-HpCDF | 0.2 - 0.5E-06 | -- | 0.5 - 1.0E-05 | -- | -- |
| | 1,2,3,4,7,8-HxCDD | 0.2 - 0.5E-06 | -- | 0.5 - 1.0E-05 | -- | -- |
| | 1,2,3,4,7,8-HxCDF | 0.2 - 0.5E-06 | -- | 0.5 - 1.0E-05 | -- | -- |
| | 1,2,3,6,7,8-HxCDD | 0.2 - 0.5E-06 | -- | 0.5 - 1.0E-05 | -- | -- |
| | 1,2,3,6,7,8-HxCDF | 0.2 - 0.5E-06 | -- | 0.5 - 1.0E-05 | -- | -- |
| | 1,2,3,7,8,9-HxCDD | 0.2 - 0.5E-06 | -- | 0.5 - 1.0E-05 | -- | -- |
| | 1,2,3,7,8,9-HxCDF | 0.2 - 0.5E-06 | -- | 0.5 - 1.0E-05 | -- | -- |
| | 1,2,3,7,8-PeCDD | 0.2 - 0.5E-06 | -- | 0.5 - 1.0E-05 | -- | -- |
| | 1,2,3,7,8-PeCDF | 0.2 - 0.5E-06 | -- | 0.5 - 1.0E-05 | -- | -- |
| | 2,3,4,7,8-PeCDF | 0.2 - 0.5E-06 | -- | 0.5 - 1.0E-05 | -- | -- |
| * | 2,3,7,8-TCDD | 0.2 - 0.5E-06 | 4.1 E - 06 c | 0.5 - 1.0E-05 | 4.3 E - 07 c | 3.00E-05 |
| | 2,3,7,8-TCDF | 0.2 - 0.5E-06 | -- | 0.5 - 1.0E-05 | -- | -- |
| | HpCDD-Total | 0.2 - 0.5E-06 | -- | 0.5 - 1.0E-05 | -- | -- |
| | HpCDF-Total | 0.2 - 0.5E-06 | -- | 0.5 - 1.0E-05 | -- | -- |
| | HxCDD-Total | 0.2 - 0.5E-06 | -- | 0.5 - 1.0E-05 | -- | -- |
| | HxCDF-Total | 0.2 - 0.5E-06 | -- | 0.5 - 1.0E-05 | -- | -- |
| | OCDD | 0.2 - 0.5E-06 | -- | 0.5 - 1.0E-05 | -- | -- |
| | OCDF | 0.2 - 0.5E-06 | -- | 0.5 - 1.0E-05 | -- | -- |
| | PeCDD-Total | 0.2 - 0.5E-06 | -- | 0.5 - 1.0E-05 | -- | -- |
| | PeCDF-Total | 0.2 - 0.5E-06 | -- | 0.5 - 1.0E-05 | -- | -- |
| | TCDD-Total | 0.2 - 0.5E-06 | -- | 0.5 - 1.0E-05 | -- | -- |
| | TCDF-Total | 0.2 - 0.5E-06 | -- | 0.5 - 1.0E-05 | -- | -- |

## Table B-1. Comparison of Risk-Based Concentrations, Maximum Contaminant Levels, and Method Reporting Limits for Soil and Water (continued)

| | Chemicals of Potential Concern | Soil MRL[a] (mg/kg) | Residential Soil RBC (mg/kg) | Water MRL (µg/L) | Tap Water RBC (µg/L) | Drinking Water MCL (µg/L) |
|---|---|---|---|---|---|---|
| | Metals - EPA Method 6010 (except where noted) | | | | | |
| * | Arsenic - (Method 7060) | 1 | 23 n | 2 | 0.038 c | 50 |
| | Barium | 30 | 5,500 n | 20 | 2,600 n | 2,000 |
| | Cadmium | 1 | 39 n | 2 | 18 n | 5 |
| | Chromium (Total) | 2 | -- | 10 | 40,000 n | 100 |
| | Chromium VI - (Method 7197) | 2 | 390 n | 10 | 180 n | 100 |
| * | Lead - (Method 7421) | 1 | 400 d | 2 | 0.0037 n | 15 e |
| | Mercury - (Method 7470) | 0.2 | 23 n | 0.2 | 11 n | 2 |
| | Selenium - (Method 7740) | 1 | 390 n | 2 | 180 n | 50 |
| | Silver | 2 | 390 n | 10 | 180 n | -- |
| | Vanadium | 2.5 | 550 n | 5 | 260 n | -- |

* The MRL for this chemical is higher than one or more of the regulated limits (MCL), or risk-based screening concentrations (RBC and HQ).
-- Value not established.
BHC Benzene hexachloride.
DDD Dichlorodiphenyldichloroethane.
DDE Dichlorodiphenyldichloroethene.
DDT Dichlorodiphenyltrichloroethane.
EPA U.S. Environmental Protection Agency
MCL Maximum contaminant levels established in the Federal Safe Drinking Water Act, PL93-523; and the State of Alaska Drinking Water Regulations, Title 18, Chapter 80.
µg/L Micrograms per liter.
mg/kg Milligrams per kilogram.
MRL Method reporting limits.
NA Toxicity value not available; risk-based concentration cannot be calculated.
RBC Carcinogenic risk-based concentration.

a. Method reporting limits may be adjusted for sample weight and sample dilution. Method reporting limits are typical and attainable. Actual laboratory reporting limits may differ from those listed.

b. The 100 µg/L MCL applies to total trihalomethanes.

c. Carcinogenic effects; $10^{-6}$ RBC, from *EPA Region 3 Risk-Based Concentration Table, Third Quarter*, 1994.

d. Based on Office of Solid Waste and Emergency Response (OSWER) Directive No. 9355.4-12, the EPA recommends a 400 mg/kg screening level for lead in soil for residential land use (EPA, 1994).

e. The EPA's action level for lead is applicable in drinking water at the point of use.

n. Noncarcinogenic effects; hazard quotient is equal to 1, from *EPA Region 3 Risk-Based Concentration Table, Third Quarter*, 1994.

## Table B-2. Summary of Analytical Data Quality Objectives

| Parameter | Matrix | Method[a] | Precision (percent) | Accuracy (percent) | Completeness (percent) |
|---|---|---|---|---|---|
| Arsenic | Soil | 7060 | 40 | 75-125 | 90 |
| | Liquid | 7060 | 20 | 80-120 | 90 |
| Barium | Soil | 6010 | 40 | 75-125 | 90 |
| | Liquid | 6010 | 20 | 80-120 | 90 |
| Cadmium | Soil | 6010 | 40 | 75-125 | 90 |
| | Liquid | 6010 | 20 | 80-120 | 90 |
| Chromium | Soil | 6010 | 40 | 75-125 | 90 |
| | Liquid | 6010 | 20 | 80-120 | 90 |
| Diesel-Range Organics | Soil | 8100M[b] | 40 | 50-150 | 90 |
| Dioxin | Soil | 8290 | 40 | 39-127 | 85 |
| | Liquid | 8290 | 30 | 39-127 | 85 |
| Gasoline-Range Organics | Soil | 8015M[b] | 40 | 50-150 | 90 |
| Lead | Soil | 7421 | 40 | 75-125 | 90 |
| | Liquid | 7421 | 20 | 80-120 | 90 |
| Mercury | Soil | 7471 | 40 | 75-125 | 90 |
| | Liquid | 7470 | 20 | 80-120 | 90 |
| Organophosphorous Pesticides | Soil | 8140 | 30 | 75-125 | 90 |
| | Liquid | 8140 | 20 | 75-125 | 90 |
| Polychlorinated Biphenyls/ Organochlorine Pesticides | Soil | 8080 | 40 | 50-150 | 90 |
| | Liquid | 8080 | 30 | 60-140 | 90 |
| Semivolatile Organic Compounds | Soil | 8270 | 40 | 12-127 | 90 |
| | Liquid | 8270 | 30 | 12-127 | 90 |
| Selenium | Soil | 7740 | 40 | 75-125 | 90 |
| | Liquid | 7740 | 20 | 80-120 | 90 |
| Silver | Soil | 6010 | 40 | 75-125 | 90 |
| | Liquid | 6010 | 20 | 80-120 | 90 |
| Total Organic Carbon | Soil | D4129-82M[c] | 50 | 75-125 | 85 |
| Vanadium | Soil | 6010 | 40 | 75-125 | 90 |
| Volatile Organic Compounds | Soil | 8260 | 25 | 60-140 | 90 |
| | Liquid | 8260 | 15 | 70-130 | 90 |

a. Unless otherwise specified, method numbers refer to U.S. Environmental Protection Agency, 1986, *Test Methods for Evaluation of Solid Waste, Physical/Chemical Methods, SW-846*, 3rd edition, with additions through November 1992.
b. Alaska Department of Environmental Conservation modification.
c. American Society of Testing and Materials (ASTM) method.

## Table B-3. Summary of Investigation Samples for the West Section, Former Quartermaster's Fueling System Source Area

| Type of Sample | Number of Samples | Turnaround Time | Analyses | Location/Rationale |
|---|---|---|---|---|
| Surface Soil | 55 | Quick<br>Normal | DRO, GRO, VOCs, SVOCs,<br>PSA, MC, SpGr, TOC, SN, SHD | Samples will be collected from 0- to 12-inch depths at locations around the former aboveground storage tanks (ASTs), dispensing islands, loading stands, and other areas where surface releases of contaminants may have occurred. Samples will be located using a systematic grid to provide 80 percent confidence for detection of circular-shaped contaminated areas 25 feet or larger in diameter. |
| Subsurface Soil | 150 | Quick<br>Normal | DRO, GRO, VOCs, SVOCs,<br>PSA, MC, SpGr, TOC, SN, SHD | Samples will be collected from as many as 30 borings at contaminated locations identified during initial surface-soil sampling. Sampling intervals and boring depths are described in Section 3.1.2 of the field sampling plan (FSP). |
| Subsurface Soil | 100 | Normal | DRO, GRO, VOCs, SVOCs, PSA, MC, SpGr | Samples will be collected from as many as 20 borings located along identified fuel product lines where fuel releases may have occurred, and along utility lines that may have served as conduits for migrating contaminants following releases. Sampling intervals and boring depths are described in Section 3.1.2 of the FSP. |
| Groundwater | 50 | Quick | DRO, GRO, VOCs, SVOCs, lead | Samples will be collected from as many as 50 existing probes and wells. Samples will allow evaluation of the extent of contaminants and will provide a basis for siting additional probes. |
| Groundwater | 186 | Quick | DRO, GRO, VOCs, SVOCs | Samples will be collected from initial 16 deep probes. New probes will be located on a 200-foot grid extending from near the north bank of the Chena River to about 600 feet north of the river. Samples will be collected from each probe at 20, 30, 40, 50, 60, and 70 feet below the ground surface. Samples will be used to evaluate the vertical and horizontal extents of contamination north of the river. As many as 15 additional probes will be installed to further estimate the extent of contamination encountered during initial probe sampling. |
| Groundwater | 55 | Quick | DRO, GRO, VOCs, SVOCs | Samples will be collected from as many as 20 new shallow probes and 7 deep probes. Shallow probes will be installed to approximately 20 feet below ground surface. Deep probes will be installed to depths of about 30 to 70 feet below ground surface. New probe depths and locations will be based upon initial quick turnaround sampling. The probes will be placed on the south side of the Chena River to evaluate the extent of contamination. |

## Table B-3. Summary of Investigation Samples for the West Section, Former Quartermaster's Fueling System Source Area (continued)

| Type of Sample | Number of Samples | Turnaround Time | Analyses | Location/Rationale |
|---|---|---|---|---|
| Groundwater | 10 | Normal | DRO, GRO, VOCs, SVOCs | Samples will be collected from as many as 10 new groundwater monitoring wells. Wells will be sited based on initial sampling to monitor existing contaminant plumes. |
| Bank Sediment | 20 | Quick | DRO, GRO, VOCs, SVOCs | Samples will be collected every 200 feet along the north and south banks of the Chena River. Samples will be used to assess the effects of previous releases and potential migration of contaminants into the river. |
| Transect Sediment | 15 | Normal | DRO, GRO, VOCs, SVOCs, PCBs/ pesticides, OPP, dioxins/furans, metals PSA, SpGr, TOC, SN, SHD | Samples will be collected from locations at three transects of the Chena River channel. Transect locations will be based upon previous quick turnaround sampling. Samples will be used to assess the effects of previous releases and the potential migration of contaminants into the river. |
| Surface Water | 24 | Normal | DRO, GRO, VOCs, SVOCs, PCBs/ pesticides, OPP, metals | Samples will be collected from locations that coincide with locations of sediment sampling of the Chena River (see Figure A-6). Samples will be used to assess the effects of previous releases and the potential migration of contaminants into the river. |
| Tar | 4 | Quick | DRO, GRO, VOCs, SVOCs, TCLP VOCs, TCLP SVOCs | Samples will be collected from four drums at locations along the Chena River bank. Samples will be used to evaluate the leachability of contaminants from the tar to groundwater, river water, and bank sediment. |
| Petroleum Product | 4 | Quick | USACE FIQ, SpGr, Viscosity | Samples will be collected from two separate free-product plumes (three samples from the large plume and one sample from the small plume). Samples will be used to evaluate interim remedial actions or removals. |

DRO Diesel-range organics
FIQ Fuel identification and quantitation
GRO Gasoline-range organics
MC Moisture content
OPP Organophosphorous pesticides
PSA Particle-size analysis
PCBs Polychlorinated biphenyls
SHD Specific heterotrophic degrader
SN Soil nutrients
SVOCs Semivolatile organic compounds
SpGr Specific gravity
TOC Total organic carbon
TCLP Toxicity characteristic leaching procedure
VOCs Volatile organic compounds
USACE U.S. Army Corps of Engineers

## Table B-4. West Section, Former Quartermaster's Fueling System Source Area Sample Collection Summary - Soil

| Parameter | Analytical Method[a] | Maximum Number of Samples | Quality Assurance Samples | Quality Control Samples | Container | Preservative | Maximum Holding Times |
|---|---|---|---|---|---|---|---|
| Gasoline-Range Organics | 8015M[b] | 305 | 31 | 31 | Two 2-oz. glass septa-lidded | No headspace 4°C | 14 days to analysis |
| Diesel-Range Organics | 8100M[b] | 305 | 31 | 31 | One 4-oz. glass | 4°C | 14 days to extraction 40 days to analysis |
| Volatile Organic Compounds | 8260 | 305 | 31 | 31 | Two 2-oz. glass septa-lidded | No headspace 4°C | 14 days to analysis |
| Semivolatile Organic Compounds | 8270 | 305 | 31 | 31 | One 8-oz. glass | 4°C | 14 days to analysis |
| Total Organic Carbon | D4129-82M[c] | 56 | 6 | 6 | One 4-oz. glass | 4°C | 14 days to extraction 40 days to analysis |
| Soil Nutrients | | | | | | | |
| Nitrogen as ammonia | 350.2[d] | 56 | 6 | 6 | One 4-oz. glass | 4°C | 28 days |
| Nitrate/nitrite | 353.2[d] | 56 | 6 | 6 | One 4-oz. glass | 4°C | 28 days |
| Kjeldahl nitrogen | 351.3[d] | 56 | 6 | 6 | One 4-oz. glass | 4°C | 28 days |
| Orthophosphate | 365.2[d] | 56 | 6 | 6 | One 4-oz. glass | 4°C | 48 hours |
| Heterotrophic Plate Count | Specific Heterotrophic Degrader[e] | 56 | NA | NA | One 4-oz. glass | 4°C | 48 hours |

°C Degrees Celsius
NA Not applicable

* Duplicate samples will be 10 percent of the total samples.
** Samples for total organic carbon, soil nutrients, and heterotrophic plate count will be about 10 percent of the total surface-soil samples, and one sample per boring for subsurface soil.

a. Unless otherwise stated, analytical method is from the U.S. Environmental Protection Agency (EPA), 1986, *Test method for evaluation of solid waste, physical/chemical methods, SW-846*, 3rd edition, amended through update I, July 1992.
b. Alaska Department of Environmental Conservation modification.
c. American Society of Testing and Materials (ASTM) Method.
d. EPA methods for chemical analysis of water and wastewater, EPA-600/4-79-020, 1979.
e. Specific heterotrophic degrader population analysis by most probable number method.

## Table B-5. West Section, Former Quartermaster's Fueling System Source Area Sample Collection Summary - Groundwater

| Parameter | Analytical Method[a] | Maximum Number of Samples | Quality Assurance Samples | Quality Control Samples | Container[b] | Preservative | Maximum Holding Times |
|---|---|---|---|---|---|---|---|
| Gasoline-Range Organics | 8015M[c] | 301 | 30<br>16 rinsate<br>100 trip | 30<br>16 rinsate<br>100 trip | Three 40-ml glass septa-lidded | No headspace<br>HCl to pH<2<br>4°C | 14 days to analysis |
| Diesel-Range Organics | 8100M[c] | 301 | 30<br>16 rinsate | 30<br>16 rinsate | One 1-liter amber glass[d] | HCl to pH<2<br>4°C | 14 days to extraction<br>40 days to analysis |
| Volatile Organic Compounds | 8260 | 301 | 30<br>16 rinsate<br>100 trip | 30<br>16 rinsate<br>100 trip | Three 40-ml glass septa-lidded | No headspace<br>HCl to pH<2<br>4°C | 14 days to analysis |
| Semivolatile Organic Compounds | 8270 | 301 | 30<br>16 rinsate | 30<br>16 rinsate | One 1-liter amber glass[d] | 4°C | 14 days to analysis |
| Lead[e] | 7421 | 50 | 5<br>3 rinsate | 5<br>3 rinsate | One 1-liter HDPE | $HNO_3$ to pH<2<br>4°C | 6 months |

°C Degrees Celsius
HCl Hydrochloric acid
HDPE High-density polyethylene
$HNO_3$ Nitric Acid

* Rinsates are 5 percent of the total samples or at least one sample, whichever is greater, for each matrix and method. Duplicates are 10 percent of the total samples. At least one trip blank per cooler must be provided for volatile organic compounds.

a. Unless otherwise stated, analytical method is from the U.S. Environmental Protection Agency (EPA), 1986, *Test method for evaluation of solid waste, physical/chemical methods, SW-846*, 3rd edition, amended through update I, July 1992.
b. Glass containers have polytetrafluoroethylene-lined lids.
c. Alaska Department of Environmental Conservation modification.
d. For 10 percent of the water samples, include two extra 1-liter bottles per laboratory for matrix spike/matrix spike duplicate.
e. Groundwater samples will be analyzed for dissolved lead (filtered samples).

## Table B-6. West Section, Former Quartermaster's Fueling System Source Area Sample Collection Summary - Sediment

| Parameter | Analytical Method[a] | Number of Samples | Quality Assurance Samples | Quality Control Samples | Container | Preservative | Maximum Holding Times |
|---|---|---|---|---|---|---|---|
| Gasoline-Range Organics | 8015M[b] | 35 | 4 | 4 | Two 2-oz. glass septa-lidded | No headspace 4°C | 14 days to analysis |
| Diesel-Range Organics | 8100M[b] | 35 | 4 | 4 | One 4-oz. glass | 4°C | 14 days to extraction 40 days to analysis |
| Volatile Organic Compounds | 8260 | 35 | 4 | 4 | Two 2-oz. glass septa-lidded | No headspace 4°C | 14 days to analysis |
| Polychlorinated Biphenyls/ Organochlorine Pesticides | 8080 | 15 | 2 | 2 | One 4-oz. glass | 4°C | 14 days to extraction 40 days to analysis |
| Organophosphorous Pesticides | 8140 | 15 | 2 | 2 | One 4-oz. glass | 4°C | 14 days to extraction 40 days to analysis |
| Semivolatile Organic Compounds | 8270 | 35 | 4 | 4 | One 4-oz. glass | 4°C | 7 days to extraction 40 days to analysis |
| Dioxins/Furans | 8290 | 15 | 2 | 2 | Two 8-oz. glass | 4°C | 14 days to extraction 40 days to analysis |
| Metals[c] | | 15 | 2 | 2 | One 8-oz. glass | 4°C | 28 days for mercury 6 months for all others |
| Arsenic, Barium | 7060/6010 | | | | | | |
| Cadmium, Chromium | 6010/6010 and 7197 | | | | | | |
| Lead, Mercury | 7421/7470 | | | | | | |
| Selenium, Silver | 7740/6010 | | | | | | |
| Soil Nutrients | | | | | | | |
| Nitrogen as ammonia | 350.2[d] | 4 | 1 | 1 | One 4-oz. glass | 4°C | 28 days |
| Nitrate/nitrite | 353.2[d] | 4 | 1 | 1 | One 4-oz. glass | 4°C | 28 days |
| Kjeldahl nitrogen | 351.3[d] | 4 | 1 | 1 | One 4-oz. glass | 4°C | 28 days |
| Orthophosphate | 365.2[d] | 4 | 1 | 1 | One 4-oz. glass | 4°C | 48 hours |
| Heterotrophic Plate Count | Specific Heterotrophic Degrader[e] | 4 | NA | NA | One 4-oz. glass | 4°C | 48 hours |

°C Degrees Celsius

* Duplicates are 10 percent of the total samples.

a. Unless otherwise stated, analytical method is from the U.S. Environmental Protection Agency (EPA), 1986, *Test method for evaluation of solid waste, physical/chemical methods, SW-846*, 3rd edition, amended through update I, July 1992.

b. Alaska Department of Environmental Conservation modification.

c. Metals analyses will consist of an inductively coupled plasma scan for barium, cadmium, chromium, and silver; graphite furnace atomic absorption (GFAA) for arsenic, lead, and selenium; and cold vapor atomic absorption (CVAA) for mercury.

d. EPA methods for chemical analysis of water and wastewater, EPA-600/4-79-020, 1979.

e. Specific heterotrophic degrader population analysis by most probable number method.

## Table B-7. West Section, Former Quartermaster's Fueling System Source Area Sample Collection Summary - Tar

| Parameter | Analytical Method[a] | Number of Samples | Quality Assurance Samples | Quality Control Samples | Container | Preservative | Maximum Holding Times |
|---|---|---|---|---|---|---|---|
| Gasoline-Range Organics | 8015M[b] | 4 | 1 | 1 | One 2-oz. glass septa-lidded | No headspace 4°C | 14 days to analysis |
| Diesel-Range Organics | 8100M[b] | 4 | 1 | 1 | One 2-oz. glass | 4°C | 14 days to extraction 40 days to analysis |
| Volatile Organic Compounds | 1624[c] | 4 | 1 | 1 | One 2-oz. glass septa-lidded | No headspace 4°C | 14 days to analysis |
| Semivolatile Organic Compounds | 1625[c] | 4 | 1 | 1 | One 2-oz. glass | 4°C | 7 days to extraction 40 days to analysis |
| TCLP/Volatile Organic Compounds | 8260 | 4 | 1 | 1 | One 2-oz. glass septa-lidded | No headspace 4°C | 14 days to analysis |
| TCLP/Semivolatile Compounds | 8270 | 4 | 1 | 1 | One 2-oz. glass | 4°C | 14 days to analysis |

°C Degrees Celsius
TCLP Toxicity characteristic leaching procedures

* Duplicates are 10 percent of the total samples.

a. Unless otherwise stated, analytical method is from the U.S. Environmental Protection Agency (EPA), 1986, *Test method for evaluation of solid waste, physical/chemical methods, SW-846*, 3rd edition, amended through update I, July 1992.
b. Alaska Department of Environmental Conservation modification.
c. Analytical method by isotope dilution, GC/MS, from EPA office of water regulations and standards, industrial technology division, June 1989.

## Table B-8. West Section, Former Quartermaster's Fueling System Source Area Sample Collection Summary - Surface Water

| Parameter | Analytical Method[a] | Maximum Number of Samples | Quality Assurance Samples | Quality Control Samples | Container[b] | Preservative | Maximum Holding Times |
|---|---|---|---|---|---|---|---|
| Gasoline-Range Organics | 8015M[c] | 24 | 3<br>2 rinsate<br>8 trip | 3<br>2 rinsate<br>8 trip | Three 40-ml glass septa-lidded | No headspace<br>HCl to pH<2<br>4°C | 14 days to analysis |
| Diesel-Range Organics | 8100M[c] | 24 | 3<br>2 rinsate | 3<br>2 rinsate | One 1-liter amber glass | HCl to pH<2<br>4°C | 14 days to extraction<br>40 days to analysis |
| Volatile Organic Compounds | 8260 | 24 | 3<br>2 rinsate<br>8 trip | 3<br>2 rinsate<br>8 trip | Three 40-ml glass septa-lidded | No headspace<br>HCl to pH<2<br>4°C | 14 days to analysis |
| Polychlorinated Biphenyls/ Organochlorine Pesticides | 8080 | 24 | 3<br>2 rinsate | 3<br>2 rinsate | One 1-liter amber glass[d] | 4°C | 14 days to extraction<br>40 days to analysis |
| Organophosphorous Pesticides | 8140 | 24 | 3<br>2 rinsate | 3<br>2 rinsate | One 1-liter amber glass[d] | 4°C | 14 days to extraction<br>40 days to analysis |
| Semivolatile Organic Compounds | 8270 | 24 | 3<br>2 rinsate | 3<br>2 rinsate | One 1-liter amber glass[d] | 4°C | 7 days to extraction<br>40 days to analysis |
| Metals[e]<br>Arsenic, Barium<br>Cadmium, Chromium<br>Lead, Mercury<br>Selenium, Silver | <br>7060/6010<br>6010/6010<br>7421/7470<br>7740/6010 | 24 | 3<br>2 rinsate | 3<br>2 rinsate | One 1-liter HDPE | $HNO_3$ to pH<2<br>4°C | 28 days for mercury in glass, 6 months for all others |

°C Degrees Celsius
HCl Hydrochloric acid
HDPE High-density polyethylene
$HNO_3$ Nitric acid

* Rinsates are 5 percent of the total samples or at least one sample, whichever is greater, for each matrix and method. Duplicates are 10 percent of the total samples. At least one trip blank per cooler must be provided for volatile organic compounds.

a. Unless otherwise stated, analytical method is from the U.S. Environmental Protection Agency (EPA), 1986, *Test method for evaluation of solid waste, physical/chemical methods, SW-846*, 3rd edition, amended through update I, July 1992.
b. All glass containers have polytetrafluoroethylene-lined lids.
c. Alaska Department of Environmental Conservation modification.
d. For 10 percent of the water samples, include two extra 1-liter bottles per laboratory for matrix spike/matrix spike duplicate.
e. Surface-water samples will be analyzed for total metals (unfiltered samples).

## Table B-9. West Section, Former Quartermaster's Fueling System Source Area Sample Collection Summary - Petroleum Product

| Parameter | Analytical Method[a] | Number of Samples | Quality Assurance Samples | Quality Control Samples | Container[b] | Preservative | Maximum Holding Times |
|---|---|---|---|---|---|---|---|
| Fuel Identification and Quantitation | 8015M[b] | 4 | 1 | 1 | Three 40-ml glass septa-lidded | No headspace HCl to pH<2 4°C | 14 days to analysis |
| Specific Gravity | D 287[c] | 4 | NA | NA | One 250-ml amber glass | NA | NA |
| Viscosity | D 445[c] | 4 | NA | NA | One 20-ml amber glass | NA | NA |

°C Degrees Celsius
HCl Hydrochloric acid
NA Not applicable

* Duplicates are 10 percent of the total samples.

a. Unless otherwise stated, analytical method is from the U.S. Environmental Protection Agency (EPA), 1986, *Test method for evaluation of solid waste, physical/chemical methods, SW-846*, 3rd edition, amended through update I, July 1992.
b. U.S. Army Corps of Engineers modification.
c. American Society for Testing and Materials method.

## Table B-10. Summary of Investigation Samples for the East Section, Former Quartermaster's Fueling System Source Area

| Type of Sample | Number of Samples | Turnaround Time | Analyses | Location/Rationale |
|---|---|---|---|---|
| Surface Soil | 50 | Quick<br>Normal | DRO, GRO, VOCs, SVOCs,<br>PSA, MC, SpGr, TOC, SN, SHD | Samples will be collected from 0- to 12-inch depths at locations around the former aboveground storage tanks (ASTs) in the vicinity of Buildings 1565 and 1575 where surface releases of fuel may have occurred. Samples will be located using a systematic grid to provide 80 percent confidence for detection of circular-shaped contaminated areas of 25 feet or larger in diameter |
| Surface Soil | 10 | Quick | DRO, GRO, VOCs, SVOCs | Samples will be collected from 6- to 24-inch depths in the potential 1,1,1-trichloroethane (1,1,1-TCA) spill location west of Building 1565. Samples will be located on a systematic grid. |
| Surface Soil | 10 | Quick | DRO, GRO, VOCs, SVOCs | Samples will be collected from 6- to 24-inch depths in the potential TCE spill location east of Building 1060. Samples will be located on a systematic grid. |
| Subsurface Soil | 165 | Quick<br>Normal | DRO, GRO, VOCs, SVOCs,<br>PSA, MC, SpGr, TOC, SN, SHD | Samples will be collected from as many as 33 borings at contaminated locations identified during initial surface-soil sampling. Sampling intervals and boring depths are described in Section 3.2.2 of the FSP. |
| Subsurface Soil | 50 | Quick | DRO, GRO, VOCs, SVOCs | Samples will be collected from as many as 10 borings located along identified fuel product lines where fuel releases may have occurred and from along utility lines that may have served as conduits for migrating fuel following releases. Sampling intervals and boring depths are described in Section 3.2.2 of the FSP. |
| Groundwater | 50 | Quick | DRO, GRO, VOCs, SVOCs, lead | Samples will be collected from as many as 50 existing probes and wells. Samples will allow evaluation of the extent of contaminants and will provide a basis for siting additional probes. |
| Groundwater | 126 | Quick | DRO, GRO, VOCs, SVOCs | Samples will be collected from initial 11 deep probes. New probes will be placed on a 200-foot grid extending from near the north bank of the Chena River to about 600 feet north of the river. Samples will be collected from each probe at 20, 30, 40, 50, 60, and 70 feet below the ground surface. Samples will be used to evaluate the vertical and horizontal extents of contaminants north of the Chena River. As many as 10 additional deep probes will be placed to estimate the extent of contamination encountered in the initial probes. |

## Table B-10. Summary of Investigation Samples for the East Section, Former Quartermaster's Fueling System Source Area (continued)

| Type of Sample | Number of Samples | Turnaround Time | Analyses | Location/Rationale |
|---|---|---|---|---|
| Groundwater | 90 | Quick | DRO, GRO, VOCs, SVOCs | Samples will be collected from as many as 30 new shallow probes and 10 deep probes. Shallow probes will be installed to approximately 20 feet below ground surface. Deep probes will be installed to depths of about 30 to 70 feet below ground surface. New probe depths and locations will be located based on initial quick turnaround sampling. The probes will be placed on the south side of the Chena River to evaluate the extent of contamination. |
| Groundwater | 10 | Normal | DRO, GRO, VOCs, SVOCs | Samples will be collected from as many as 10 new groundwater monitoring wells. Wells will be sited based on initial sampling to monitor existing contaminant plumes. |
| Bank Sediment | 24 | Quick | DRO, GRO, VOCs, SVOCs | Samples will be collected every 100 feet along the north and south banks of the Chena River. Samples will be used to assess the effects of previous releases and potential migration of contaminants into the river. |
| Transect Sediment | 10 | Normal | DRO, GRO, VOCs, SVOCs, PCBs/pesticides, dioxins/furans, metals, OPP PSA, SpGr, TOC, SN, SH, SHD | Samples will be collected from two transects of the Chena River. The transect location will be based on previous quick turnaround sampling. |
| Background Sediment | 9 | Normal | DRO, GRO, VOCs, SVOCs, PCBs/pesticides, dioxins/furans, metals, OPP PSA, SpGr, TOC, SN, SH, SHD | Background samples will be collected from the riverbanks and from one transect across the Chena River at an upriver location uninfluenced by contamination. |
| Surface Water | 16 | Normal | DRO, GRO, VOCs, SVOCs, PCBs/pesticides, metals, OPP | Samples will be collected from the Chena River that coincide with locations of sediment sampling of the Chena River (see Figure A-6). Samples will be used to assess the effects of previous releases and potential migration of contaminants into the river. |
| Background Surface Water | 8 | Normal | DRO, GRO, VOCs, SVOCs, PCBs/pesticides, metals, OPP | Background samples will be collected from the Chena River at an upriver location believed to be uninfluenced by contamination. Sample locations will coincide with background sediment locations. |
| Petroleum Product | 1 | Quick | USACE FIQ, SpGr, Viscosity | Samples will be collected from a free-product plume south of Building 1060. Samples will be used to evaluate interim remedial actions or removals. |

DRO Diesel-range organics
FIQ Fuel identification and quantitiation
GRO Gasoline-range organics
MC Moisture content
OPP Organophosphorous pesticides
PSA Particle-size analysis
PCBs Polychlorinated biphenyls
SHD Specific heterotrophic degrader
SN Soil nutrients
SVOCs Semivolatile organic compounds
SpGr Specific gravity
TOC Total organic carbon
TPH Total petroleum hydrocarbons
USACE U.S. Army Corps of Engineers
VOCs Volatile organic compounds

## Table B-11. East Section, Former Quartermaster's Fueling System Source Area Sample Collection Summary - Soil

| Parameter | Analytical Method[a] | Maximum Number of Samples | Quality Assurance Samples | Quality Control Samples | Container | Preservative | Maximum Holding Times |
|---|---|---|---|---|---|---|---|
| Gasoline-Range Organics | 8015M[b] | 345 | 35 | 35 | Two 2-oz. glass septa-lidded | No headspace 4°C | 14 days to analysis |
| Diesel-Range Organics | 8100M[b] | 345 | 35 | 35 | One 4-oz. glass | 4°C | 14 days to extraction 40 days to analysis |
| Volatile Organic Compounds | 8260 | 345 | 35 | 35 | Two 2-oz. glass septa-lidded | No headspace 4°C | 14 days to analysis |
| Semivolatile Organic Compounds | 8270 | 345 | 35 | 35 | One 4-oz. glass | 4°C | 7 days to extraction 40 days to analysis |
| Total Organic Carbon | D4129-82M[c] | 50 | 5 | 5 | One 4-oz. glass | 4°C | 14 days to extraction 40 days to analysis |
| Soil Nutrients | | | | | | | |
| Nitrogen as ammonia | 350.2[d] | 50 | 5 | 5 | One 4-oz. glass | 4°C | 28 days |
| Nitrate/nitrite | 353.2[d] | 50 | 5 | 5 | One 4-oz. glass | 4°C | 28 days |
| Kjeldahl nitrogen | 351.3[d] | 50 | 5 | 5 | One 4-oz. glass | 4°C | 28 days |
| Orthophosphate | 365.2[d] | 50 | 5 | 5 | One 4-oz. glass | 4°C | 48 hours |
| Heterotrophic Plate Count | Specific Heterotrophic Degrader[e] | 50 | NA | NA | One 4-oz. glass | 4°C | 48 hours |

°C Degrees Celsius
NA Not applicable

* Duplicate samples will be 10 percent of the total samples.
** Samples for total organic carbon, soil nutrients, and heterotrophic plate count will be about 10 percent of the total surface soil samples and one sample per boring for subsurface soil.

a. Unless otherwise stated, analytical method is from the U.S. Environmental Protection Agency (EPA), 1986, *Test method for evaluation of solid waste physical/chemical methods, SW-846*, 3rd edition, amended through update I, July 1992.
b. Alaska Department of Environmental Conservation modification.
c. American Society of Testing and Materials (ASTM) Method.
d. EPA methods for chemical analysis of water and wastewater, EPA-600/4-79-020, 1979.
e. Specific heterotrophic degrader population analysis by most probable number method.

## Table B-12. East Section, Former Quartermaster's Fueling Section Source Area Sample Collection Summary - Groundwater

| Parameter | Analytical Method[a] | Maximum Number of Samples | Quality Assurance Samples | Quality Control Samples | Container[b] | Preservative | Maximum Holding Times |
|---|---|---|---|---|---|---|---|
| Gasoline-Range Organics | 8015M[c] | 276 | 28<br>14 rinsate<br>92 trip | 28<br>14 rinsate<br>92 trip | Three 40-ml glass septa-lidded | No headspace<br>HCl to pH<2<br>4°C | 14 days to analysis |
| Diesel-Range Organics | 8100M[c] | 276 | 28<br>14 rinsate | 28<br>14 rinsate | One 1-liter amber glass[d] | HCl to pH<2<br>4°C | 14 days to extraction<br>40 days to analysis |
| Volatile Organic Compounds | 8260 | 276 | 28<br>14 rinsate<br>92 trip | 28<br>14 rinsate<br>92 trip | Three 40-ml glass septa-lidded | No headspace<br>HCl to pH<2<br>4°C | 14 days to analysis |
| Semivolatile Organic Compounds | 8270 | 276 | 28<br>14 rinsate | 28<br>14 rinsate | One 4-oz. glass[d] | 4°C | 7 days to extraction<br>40 days to analysis |
| Lead[e] | 7421 | 50 | 5<br>3 rinsate | 5<br>3 rinsate | One 1-liter HDPE | $HNO_3$ to pH<2<br>4°C | 6 months |

°C Degrees Celsius
HCl Hydrochloric acid
HDPE High-density polyethylene

* Rinsates are 5 percent of the total samples or at least one sample, whichever is greater, for each matrix and method. Duplicates are 10 percent of the total samples. At least one trip blank per cooler must be provided for volatile organic compounds.

a. Unless otherwise stated, analytical method is from the U.S. Environmental Protection Agency (EPA), 1986, *Test method for evaluation of solid waste, physical/chemical methods, SW-846*, 3rd edition, amended through update I, July 1992.
b. Glass containers have polytetrafluoroethylene-lined lids.
c. Alaska Department of Environmental Conservation modification.
d. For 10 percent of the water samples, include two extra 1-liter bottles per laboratory for matrix spike/matrix spike duplicate.
e. Groundwater samples will be analyzed for dissolved lead (filtered samples).

## Table B-13. East Section, Former Quartermaster's Fueling System Source Area Sample Collection Summary - Sediment

| Parameter | Analytical Method[a] | Number of Samples | Quality Assurance Samples | Quality Control Samples | Container | Preservative | Maximum Holding Times |
|---|---|---|---|---|---|---|---|
| Gasoline-Range Organics | 8015M[b] | 43 | 5 | 5 | Two 2-oz. glass septa-lidded | No headspace 4°C | 14 days to analysis |
| Diesel-Range Organics | 8100[b] | 43 | 5 | 5 | One 4-oz. glass | 4°C | 14 days to extraction 40 days to analysis |
| Volatile Organic Compounds | 8260 | 43 | 5 | 5 | Two 2-oz. glass septa-lidded | No headspace 4°C | 14 days to analysis |
| Polychlorinated Biphenyls/ Organochlorine Pesticides | 8080 | 19 | 2 | 2 | One 4-oz. glass | 4°C | 14 days to extraction 40 days to analysis |
| Organophosphorous Pesticides | 8140 | 19 | 2 | 2 | One 4-oz. glass | 4°C | 14 days to extraction 40 days to analysis |
| Semivolatile Organic Compounds | 8270 | 43 | 5 | 5 | One 4-oz. glass | 4°C | 7 days to extraction 40 days to analysis |
| Dioxins/Furans | 8290 | 19 | 2 | 2 | Two 8-oz. glass | 4°C | 14 days to extraction 40 days to analysis |
| Metals[c] | | 19 | 2 | 2 | One 8-oz. glass | 4°C | 28 days for mercury 6 months for all others |
| Arsenic, Barium | 7060/6010 | | | | | | |
| Cadmium, Chromium | 6010/6010 | | | | | | |
| Lead, Mercury | 7421/7470 | | | | | | |
| Selenium, Silver | 7740/6010 | | | | | | |
| Soil Nutrients | | | | | | | |
| Nitrogen as ammonia | 350.2[d] | 2 | 1 | 1 | One 4-oz. glass | 4°C | 28 days |
| Nitrate/nitrite | 353.2[d] | 2 | 1 | 1 | One 4-oz. glass | 4°C | 28 days |
| Kjeldahl nitrogen | 351.3[d] | 2 | 1 | 1 | One 4-oz. glass | 4°C | 28 days |
| Orthophosphate | 365.2[d] | 2 | 1 | 1 | One 4-oz. glass | 4°C | 48 hours |
| Heterotrophic Plate Count | Specific Heterotrophic Degrader[e] | 2 | NA | NA | One 4-oz. glass | 4°C | 48 hours |

°C Degrees Celsius

* Duplicates are 10 percent of the total samples.

a. Unless otherwise stated, analytical method is from the U.S. Environmental Protection Agency (EPA), 1986, *Test method for evaluation of solid waste, physical/chemical methods, SW-846*, 3rd edition, amended through update I, July 1992.
b. Alaska Department of Environmental Conservation modification.
c. Metals analyses will consist of an inductively coupled plasma scan for barium, cadmium, chromium, and silver; graphite furnace atomic absorption (GFAA) for arsenic, lead, and selenium; and cold vapor atomic absorption (CVAA) for mercury.
d. EPA methods for chemical analysis of water and wastewater, EPA-600/4-79-020, 1979.
e. Specific heterotrophic degrader population analysis by most probable number method.

## Table B-14. East Section, Former Quartermaster's Fueling System Source Area Sample Collection Summary - Surface Water

| Parameter | Analytical Method[a] | Maximum Number of Samples | Quality Assurance Samples | Quality Control Samples | Container[b] | Preservative | Maximum Holding Times |
|---|---|---|---|---|---|---|---|
| Gasoline-Range Organics | 8015M[c] | 24 | 3<br>2 rinsate<br>8 trip | 3<br>2 rinsate<br>8 trip | Three 40-ml glass septa-lidded | No headspace<br>HCl to pH<2<br>4°C | 14 days to analysis |
| Diesel-Range Organics | 8100M[c] | 24 | 3<br>2 rinsate | 3<br>2 rinsate | One 1-liter amber glass[d] | HCl to pH<2<br>4°C | 14 days to extraction<br>40 days to analysis |
| Volatile Organic Compounds | 8260 | 24 | 3<br>2 rinsate<br>8 trip | 3<br>2 rinsate<br>8 trip | Three 40-ml glass septa-lidded | No headspace<br>HCl to pH<2<br>4°C | 14 days to analysis |
| Polychlorinated Biphenyls/ Organochlorine Pesticides | 8080 | 24 | 3<br>2 rinsate | 3<br>2 rinsate | One 1-liter amber glass[d] | 4°C | 14 days to extraction<br>40 days to analysis |
| Organophosphorous Pesticides | 8140 | 24 | 3<br>2 rinsate | 3<br>2 rinsate | One 1-liter amber glass[d] | 4°C | 14 days to extraction<br>40 days to analysis |
| Semivolatile Organic Compounds | 8270 | 24 | 3<br>2 rinsate | 3<br>2 rinsate | One 1-liter amber glass[d] | 4°C | 7 days to extraction<br>40 days to analysis |
| Metals[e] | | 24 | 3<br>2 rinsate | 3<br>2 rinsate | One 1-liter HDPE | $HNO_3$ to pH<2<br>4°C | 28 days for mercury in glass, 6 months for all others |
| Arsenic, Barium | 7060/6010 | | | | | | |
| Cadmium, Chromium | 6010/6010 | | | | | | |
| Lead, Mercury | 7421/7470 | | | | | | |
| Selenium, Silver | 7740/6010 | | | | | | |

°C Degrees Celsius
HCl Hydrochloric acid
HDPE High-density polyethylene
$HNO_3$ Nitric acid

* Rinsates are 5 percent of the total samples or at least one sample, whichever is greater, for each matrix and method. Duplicates are 10 percent of the total samples. At least one trip blank per cooler must be provided for volatile organic compounds.

a. Unless otherwise stated, analytical method is from the U.S. Environmental Protection Agency (EPA), 1986, *Test method for evaluation of solid waste, physical/chemical methods, SW-846*, 3rd edition, amended through update I, July 1992.
b. Glass containers have polytetrafluoroethylene-lined lids.
c. Alaska Department of Environmental Conservation modification.
d. For 10 percent of the water samples, include two extra 1-liter bottles per laboratory for matrix spike/matrix spike duplicate.
e. Surface-water samples will be analyzed for total metals (unfiltered samples).

## Table B-15. East Section, Former Quartermaster's Fueling System Source Area Sample Collection Summary - Petroleum Product

| Parameter | Analytical Method[a] | Number of Samples | Quality Assurance Samples | Quality Control Samples | Container | Preservative | Maximum Holding Times |
|---|---|---|---|---|---|---|---|
| Fuel Identification and Quantitation | 8015M[b] | 1 | 1 | 1 | Three 40-ml glass septa-lidded | No headspace<br>HCl to pH<2<br>4°C | 14 days to analysis |
| Specific Gravity | D 287[c] | 1 | NA | NA | One 250-ml amber glass | NA | NA |
| Viscosity | D 445[c] | 1 | NA | NA | One 20-ml amber glass | NA | NA |

°C Degrees Celsius
HCl Hydrochloric acid
NA Not applicable

* Duplicates are 10 percent of the total samples.

a. Unless otherwise stated, analytical method is from the U.S. Environmental Protection Agency (EPA), 1986, *Test method for evaluation of solid waste, physical/chemical methods, SW-846*, 3rd edition, amended through update I, July 1992.
b. U.S. Army Corps of Engineers modification.
c. American Society for Testing and Materials method.

## Table B-16. Summary of Investigation Samples for Open Burning/Open Detonation Source Area

| Type of Sample | Number of Samples | Turnaround Time | Analyses | Location/Rationale |
|---|---|---|---|---|
| Surface Soil | 8 | Quick<br>Normal | Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium, Silver, Vanadium, PSA, MC, SpGr | Eight samples will be collected from 3- to 6-inch depths in and around the impact craters at locations previously sampled by the U.S. Army Corps of Engineers on September 1, 1994. |
| Background Surface Soil | 2 | Quick | Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium, Silver, Vanadium | Background samples will be collected from 3- to 6-inch depths at a nearby location believed to be uninfluenced by contamination. |

MC Moisture content
PSA Particle-size analysis
SpGr Specific gravity

## Table B-17. Open Burning/Open Detonation Source Area Sample Collection Summary - Soil

| Parameter | Analytical Method[a] | Maximum Number of Samples | Quality Assurance Samples | Quality Control Samples | Container | Preservative | Maximum Holding Times |
|---|---|---|---|---|---|---|---|
| Metals[b] | | 10 | 1 | 1 | One 8-oz. glass | 4°C | 28 days for mercury |
| Arsenic/Barium | 7060/6010 | | | | | | 6 months for all others |
| Cadmium/Chromium | 6010/6010 and 7197 | | | | | | |
| Lead/Mercury | 7421/7470 | | | | | | |
| Selenium/Silver | 7740/6010 | | | | | | |
| Vanadium | 6010 | | | | | | |

°C Degrees Celsius

* Duplicates are 10 percent of the total samples.

a. Analytical method is from the U.S. Environmental Protection Agency (EPA), 1986, *Test method for evaluation of solid waste, physical/chemical methods, SW-846*, 3rd edition, amended through update I, July 1992.

b. Metals analyses will consist of an inductively coupled plasma scan for barium, cadmium, chromium, silver, and vanadium; graphite furnace atomic absorption (GFAA) for arsenic, lead, and selenium; and cold vapor atomic absorption (CVAA) for mercury.

# ATTACHMENT

## FORMS

Form 1 - Chain-of-Custody Form
Form 2 - Quality Assurance Samples

**Harding Lawson Associates**
601 East 57th Place
Anchorage, AK 99518
907 / 563-8102
907 / 561-4574 FAX

# FORM 1

## CHAIN OF CUSTODY FORM

Lab: _____

Samplers: _____

Project Number: _____

Name/Location: _____

Project Manager: _____

Recorder: _____
*(Signature Required)*

| SOURCE CODE | MATRIX: Water | Sediment | Soil | Oil | #CONTAINERS & PRESERV.: Unpres. | $H_2SO_4$ | $HNO_3$ | HCl | SAMPLE NUMBER OR LAB NUMBER: Yr | Wk | Seq | DATE: Yr | Mo | Dy | Time | STATION DESCRIPTION/ NOTES | ANALYSIS REQUESTED: EPA 601/8010 | EPA 602/8020 | EPA 624/8240 | EPA 625/8270 | ICP METALS | EPA 8015M/TPH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
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| LAB NUMBER: Yr | Wk | Seq | DEPTH IN FEET | COL MTD CD | QA CODE | MISCELLANEOUS |
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**CHAIN OF CUSTODY RECORD**

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| RELINQUISHED BY: *(Signature)* | RECEIVED BY: *(Signature)* | DATE/TIME |
| RELINQUISHED BY: *(Signature)* | RECEIVED BY: *(Signature)* | DATE/TIME |
| RELINQUISHED BY: *(Signature)* | RECEIVED BY: *(Signature)* | DATE/TIME |
| DISPATCHED BY: *(Signature)* DATE/TIME | RECEIVED FOR LAB BY: *(Signature)* | DATE/TIME |
| METHOD OF SHIPMENT | | |

Laboratory Copy White — Project Office Copy Yellow — Field or Office Copy Pink

6533

## FORM 2
## QUALITY ASSURANCE SAMPLES

Project: ______________________________ Date: ____________

Sampling Leader/Team: ______________________________

Quality Assurance Objective of the Investigation: ______________________________

______________________________

______________________________

______________________________

| Sample Numbers | Laboratory Sent To | Date Made/Sent | Matrix | Sample Type/ Concentration | Notes |
|---|---|---|---|---|---|
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W0034F

Harding Lawson Associates

# Operable Unit 5
# Site Safety and Health Plan
# Fort Wainwright, Alaska

Prepared for

**U.S. Army Corps of Engineers, Alaska District**
CENPA-EN-EE-AI
Post Office Box 898
Anchorage, Alaska 99506-0898

HLA Project No. 29633

August 16, 1995

**Harding Lawson Associates**
Engineering and Environmental Services
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A Site Safety and Health Plan Review Record and Daily Entry Log
B Activity Hazard Analysis
C Material Safety Data Sheets

# 1.0 INTRODUCTION

Harding Lawson Associates (HLA) prepared this Site Safety and Health Plan (SSHP) for a remedial investigation/feasibility study (RI/FS) at Operable Unit 5 (OU 5), Fort Wainwright, Alaska. This SSHP addresses work to be conducted at the following general areas:

- West Section, Former Quartermaster's Fueling System (West QFS) source area;
- East Section, Former Quartermaster's Fueling System (East QFS) source area;
- The Open Burning/Open Detonation (OB/OD) source area.

The West and East QFS areas are located north of the flight line along the south bank of the Chena River. The OB/OD area is located approximately 4 miles south of these areas in the floodplain of the Tanana River (Figure C-1).

This SSHP is designed to inform field personnel of potential hazards associated with the invasive aspects of the investigation. HLA's responsibility for the information contained in this SSHP extends only to the U.S. Army Corps of Engineers (USACE). HLA is not responsible to any party, including the USACE, for the implementation of the SSHP or changes to it that may be necessitated by changing site conditions. It is the sole responsibility of the USACE to enforce this SSHP and to ensure that all workers involved with the invasive fieldwork are properly trained and in compliance with the requirements set forth in the Occupational Safety and Health Act (OSHA), and the regulations in Title 29, Code of Federal Regulations, Parts 1910 and 1926 (29 CFR 1910 and 1926).

## 1.1 Regulations and Guidance

Protecting the safety and health of employees and site visitors will be an integral part of field activities at Fort Wainwright. Personnel involved in invasive field operations at Fort Wainwright will be potentially exposed to a variety of hazards, including the following:

- Inhalation of airborne toxic contaminants;
- Skin contact with contaminated soil and water;
- Incidental or accidental ingestion of contaminated soil or water;
- Temperature stress;
- Physical hazards inherent to field operations at the site;
- Biological hazards from contact with plants, insects, and animals.

Adequate planning before work begins will minimize the risk of employee injury and exposure. This SSHP describes possible hazards and potential routes of exposure, and establishes the minimum requirements for operating procedures, personal protective equipment (PPE), and emergency procedures.

This SSHP complies with the following regulations and guidance documents:

- 29 CFR 1910.120: Protection of Workers in Hazardous Waste Operations;
- 29 CFR 1926: Safety and Health Regulations for Construction;
- USACE Safety and Health Requirements: EM 385-1-1;
- USACE Safety and Occupational Health Document Requirements for Hazardous Waste Site Remedial Actions: ER-385-1-92;
- Federal Acquisition Regulation, Clause 52.236-13: Accident Prevention.

This SSHP also complies with state and local safety and health requirements.

All employees, subcontractors, and authorized site visitors will read this document before entering the work site, and will indicate their understanding of safety and health requirements by signing an SSHP review record (Attachment A). This record will become part of the project file.

As part of the safety and health program, a daily site entry sign-in sheet (Attachment A) will be maintained by the site safety and health officer (SSHO). This record will be reviewed with the SSHP and other training records to evaluate whether appropriate notification has been provided to site workers and visitors. Fort Wainwright employees will be informed of scheduled activities and hazards by the SSHO before the start of field activities.

## 1.2 Staff Organization and Responsibilities

The **Project Manager** will be responsible for the overall planning and compliance with safety and health activities, and for using appropriately trained individuals who are enrolled in a medical monitoring program. The project manager will be directly responsible for the adequate protection of project personnel from safety and health hazards, and for meeting the requirements of this plan. The project manager will notify the U.S. Army contracting officer of all reportable accidents and will submit an accident report within 2 business days of an accident.

The **SSHO** will be responsible for day-to-day onsite compliance with the safety and health provisions described in this SSHP. The SSHO will have the authority to stop operations if he/she believes conditions warrant the interruption. The SSHO will direct immediate responses to all accidents including personal injury, property damage, fire, explosion, and spills of or exposure to hazardous materials. The SSHO will be responsible for maintaining a record of and notifying the project manager of all accidents, injuries, and illnesses that occur at the site. The SSHO should be familiar with general industrial hygiene practices, hazardous waste site operations, and the monitoring instruments that will be used at the site.

The **Field Operations Team** members will be responsible for following all provisions of this SSHP.

## 1.3 Worker Training and Health Examinations

All site workers will have had a medical examination within 12 months prior to fieldwork. The examination will have included a physical evaluation, blood and urine analyses, a respiratory examination, and an evaluation of suitability for using a respirator.

As required under 29 CFR 1910.120, "Hazardous Waste and Emergency Response, Final Rule," all site workers and visitors will have completed either the 24-hour or 40-hour hazardous waste operations training or annual refresher course within 12 months before fieldwork. A copy of the corresponding documentation will be kept onsite.

Both the project manager and the SSHO will have completed an 8-hour supervisor's course for hazardous waste operations. The course will have included health hazard recognition, equipment training, safe work practices, respiratory protection training, first aid/cardiopulmonary resuscitation (CPR), personal hygiene training, specialized training for specific hazardous materials, and training in hazards specific to the work.

## 2.0 BACKGROUND INFORMATION

The field investigation at OU 5 will address soil, sediment, surface-water, and groundwater contamination at the East and West QFS areas and the OB/OD area, and will involve invasive and non-invasive activities as described below.

### 2.1 West Section of the Former Quartermaster's Fueling System Source Area

The West QFS area is located between the north runway and the Chena River, and between the railcar off-loading facility (ROLF) and Building 1595. The source area includes Building 1599 north of the flight line on Front Street; abandoned fuel pumps and dispenser islands between Front Street and Gaffney Road; former fill stands south of Front Street; and former gasoline and diesel storage tanks between the north flight line and Gaffney Road on both sides of Front Street (Figure C-2).

In previous investigations, soil, sediment, groundwater, and surface-water samples were collected and analyzed for a variety of chemicals including petroleum hydrocarbons, volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), pesticides, dioxins, and lead. Diesel-range organics (DRO), gasoline-range organics (GRO), VOCs, PCBs, pesticides, and dioxins were detected in soil. Lead was detected in soil at background concentrations. DRO, GRO, and VOCs (notably benzene, toluene, ethylbenzene, and xylenes [BTEX] and 1,2-dichloroethane [1,2-DCA]) were detected in groundwater. DRO, GRO, and VOCs were detected in sediment samples from the Chena River. VOCs (notably benzene, toluene, xylenes, and 1,3-dichlorobenzene) were detected in surface water from the Chena River. A detailed discussion of the West QFS area background and investigative history is presented in Section 2.0 of the OU 5 RI/FS Management Plan (MP).

The following field activities are planned for the RI/FS at the West QFS area:

- Surface-soil sampling
- Hollow-stem auger drilling and subsurface soil sampling
- Groundwater monitoring well and groundwater probe installation
- Monitoring well and probe sampling
- Surface-water and sediment sampling

### 2.2 East Section of the Former Quartermaster's Fueling System Source Area

The East QFS area is located between the north runway and the Chena River, and between Building 1579 on the southwest and Building 1054 on the northeast (Figure C-3). The source area includes Buildings 1060, 1053, and 1054, between Gaffney Road and Apple Street; Building 1565 and former Building 1567, between the flight line and Gaffney Road; former gasoline and diesel storage tanks on both sides of Gaffney Road; and a former fueling station along the north side of Gaffney Road (Figure C-3).

In previous investigations, soil and groundwater samples were collected and analyzed for a variety of chemicals including petroleum hydrocarbons, VOCs, SVOCs, metals, polynuclear aromatic hydrocarbons (PAHs), PCBs, pesticides, and herbicides. DRO, GRO, VOCs, SVOCs, and pesticides were detected in soil. Metals were detected in soil at concentrations consistent with background levels. DRO, GRO, VOCs (notably BTEX, trichloroethene [TCE], and 1,1,1-trichlorothane [1,1,1-TCA]), and SVOCs were detected in groundwater. PAHs, PCBs, and herbicides were not detected in soil or groundwater. A detailed discussion of the East QFS area background and investigative history is presented in Section 2.0 of the OU 5 RI/FS MP.

The following field activities are planned for the RI/FS at the East QFS area:

- Surface-soil sampling,
- Hollow-stem auger drilling and subsurface soil sampling,
- Groundwater monitoring well and groundwater probe installation,
- Monitoring well and probe sampling,
- Surface-water and sediment sampling.

## 2.3 Open Burning/Open Detonation Source Area

The OB/OD area is located in the broad floodplain of the Tanana River, about 4-1/2 miles south of the Chena River at Fort Wainwright. The OB/OD area was reportedly used by the U.S. Army and the U.S. Air Force to dispose of unexploded and dud ordnance (UXO), unused propellants (black powder), rocket motors, small arms ammunition, and other possible hazardous materials. The site is located along the east side of a water-filled gravel borrow pit (Figure C-4).

In September 1994, eight shallow soil samples and a water sample (from a detonation crater) were collected from the site and analyzed. DRO was detected in soil samples and in the water sample. In addition, p-chlorophenyl methyl sulfoxide, a decomposition product of an herbicide (Planavin), was detected in three of the soil samples. Samples from the OB/OD area were not previously analyzed for metals. The RI/FS will evaluate potential metals contamination based on past uses of the site.

The following field activity is planned for the RI/FS at the OB/OD area:

- Surface-soil sampling

# 3.0 HAZARD EVALUATION AND SAFETY PRACTICES

Hazards associated with activities and the precautions to be taken to prevent a hazard from causing an injury are presented in the Activity Hazard Analysis table in Attachment B. Specific precautions for chemical, physical, weather, and biological hazards are described in the following sections.

## 3.1 Chemical Hazards

The West QFS area has potential contamination associated with former petroleum product storage and handling for former facilities engineer maintenance shop activities including welding, body shop work, light - and heavy-equipment repair, vehicle lubrication and degreasing; pesticide storage; and undocumented spills of chlorinated solvents. Potential contaminants include diesel fuel, gasoline, BTEX, 1,2-DCA, dioxins, and PCBs.

The East QFS area has potential contamination associated with petroleum product storage and handling, waste oil storage, auto craft shop activities including lubrication, degreasing, painting, and other vehicle maintenance, and undocumented spills of chlorinated solvents. Potential contaminants include diesel fuel, gasoline, naphthalene, TCE, BTEX, 1,1,1-TCA, and cis-1,2-dichloroethene.

The OB/OD area has potential contamination associated with disposal and burning of UXO, unused propellants, rocket motors, small arms ammunition, and other possible hazardous materials. Potential contaminants include diesel fuel and p-chlorophenyl methyl sulfoxide.

Tables C-1 through C-3 list occupational exposure limits for selected chemicals of concern at each of the areas to be investigated. The list does not include every chemical detected at each site; however, chemicals expected to be encountered at levels exceeding health advisories or other regulated concentrations are listed. Tables C-4 through C-6 summarize the symptoms of overexposure for each site. Physiochemical data, reactivity data, health hazards, fire and explosion data, and spill, leak, and disposal procedures are included on the Material Safety Data Sheet (MSDS) for each chemical (Attachment C).

Monitoring procedures and PPE for chemical exposure protection are presented in Section 5.

## 3.2 Physical Hazards

Physical hazards include utilities, machinery, dust, and noise. Each of these hazards are described in the following sections.

### 3.2.1 Utilities

Potential physical hazards at the site include buried and overhead utility lines. Before drilling activities begin, Fort Wainwright and public utility personnel will be contacted to locate and mark all underground lines. Boring locations will not be finalized until after utilities have been located and drilling permits issued. If buried utilities are located within 5 feet of a proposed boring, or if the location of underground utility lines cannot be clearly defined, the uppermost 3 to 5 feet of each boring will be hand excavated.

The drill rig mast will be at least 10 feet from an overhead utility line. The specific distance will depend on the voltage of the line and will be identified before drilling by consulting the utility service and/or the standard specified in USACE Standard EM 385-1-1, Section 15.E.08 (USACE, 1987).

Underground and overhead obstructions will be evaluated by the SSHO before drilling begins.

### 3.2.2 Machinery

During rig setup, drilling, and rig dismantling, all personnel entering the exclusion zone (see Section 5.1) will wear hard hats, safety shoes or boots, safety glasses/face shields, and other protective clothing, as required by environmental conditions and as specified in Section 5.3 of this SSHP. Loose clothing (e.g., dangling hoods, belts, and cords) will not be permitted within the exclusion zone (see Section 5.1).

**Table C-1. Permissible Exposure Limits/Time-Weighted Averages, Short-Term Exposure Limits, and Immediately Dangerous to Life and Health Levels for Potential Chemicals of Concern at the West Section, Former Quartermaster's Fueling System Source Area**

| Chemical | PEL/TWA | STEL | IDLH |
|---|---|---|---|
| Benzene[a] | 1 ppm | 5 ppm | 3,000 ppm |
| 1,2-Dichlorothane[a] | 50 ppm | 100 ppm | 200 ppm |
| Diesel | 5 $mg/m^3$ | -- | -- |
| Dioxins[a] | -- | -- | 2,000 ppm |
| Ethylbenzene | 100 ppm | 125 ppm | 2,000 ppm |
| Gasoline | 300 ppm | 500 ppm | -- |
| PCBs[a] | 0.5 $mg/m^3$ | -- | 5 $mg/m^3$ |
| Toluene | 100 ppm | 150 ppm | 2,000 ppm |
| Xylenes | 100 ppm | 150 ppm | 1,000 ppm |

| | |
|---|---|
| -- | Not established |
| IDLH | Immediately dangerous to life and health |
| $mg/m^3$ | Milligrams per cubic meter |
| PCBs | Polychlorinated biphenyls |
| PEL/TWA | Permissible exposure limit/time-weighted average |
| ppm | Parts per million |
| STEL | Short-term exposure limit |

a. Carcinogen

**Table C-2. Permissible Exposure Limits/Time-Weighted Averages, Short-Term Exposure Limits, and Immediately Dangerous to Life and Health Levels for Potential Chemicals of Concern at the East Section, Former Quartermaster's Fueling System Source Area**

| Chemical | PEL/TWA | STEL | IDLH |
|---|---|---|---|
| Benzene[a] | 1 ppm | 5 ppm | 3,000 ppm |
| cis-1,2-Dichlorothene | 200 ppm (790 mg/m$^3$) | -- | 4,000 ppm |
| Diesel | 5 mg/m$^3$ | -- | -- |
| Ethylbenzene | 100 ppm | 125 ppm | 2,000 ppm |
| Gasoline | 300 ppm | 500 ppm | -- |
| Napthalene | 10 ppm (50 mg/m$^3$) | 15 ppm (75 mg/m$^3$) | 500 ppm |
| 1,1,1-Trichlorethane | 350 ppm (1,900 mg/m$^3$) | 450 ppm (2,450 mg/m$^3$) | 1,000 ppm |
| Trichloroethene[a] | 50 ppm | 200 ppm | 1,000 ppm |
| Toluene | 100 ppm | 150 ppm | 2,000 ppm |
| Xylenes | 100 ppm | 150 ppm | 1,000 ppm |

| | |
|---|---|
| -- | Not established |
| IDLH | Immediately dangerous to life and health |
| mg/m$^3$ | Milligrams per cubic meter |
| PEL/TWA | Permissible exposure limit/time-weighted average |
| ppm | Parts per million |
| STEL | Short-term exposure limit |

a. Carcinogen

Note: Value in parentheses is equal to value in ppm.

**Table C-3. Permissible Exposure Limits/Time-Weighted Averages for Potential Chemicals of Concern at the Former Explosive Ordnance Disposal Source Area**

| Chemical | PEL/TWA |
|---|---|
| p-Chlorophenyl methyl sulfoxide | -- |
| Diesel | 5 $mg/m^3$ |

| | |
|---|---|
| -- | Not established |
| $mg/m^3$ | Milligrams per cubic meter |
| PEL/TWA | Permissible exposure limit/time-weighted average |
| ppm | Parts per million |

**Table C-4. Symptoms of Overexposure and Effects of Potential Chemicals of Concern at the West Section, Former Quartermaster's Fueling System Source Area**

| | Signs of Overexposure | | | | | | |
|---|---|---|---|---|---|---|---|
| Chemical | Headache | Irritation[a] | Dermatitis | GI Disturbance[b] | Nausea | Nervous System[c] | Other |
| Benzene | X | X | X | | X | | Lassitude |
| 1,2-Dichloroethane | | X | X | X | | X | Intoxication, vomiting, death |
| Diesel X | X | | | X | X | | |
| Dioxins | | X | | | | | |
| Ethylbenzene | X | X | X | | X | X | |
| Gasoline | X | X | | | X | X | |
| Polychlorinated biphenyls | X | X | | X | X | | |
| Toluene | | | X | | | X | Fatigue, weakness, insomnia |
| Xylenes | | X | X | X | | X | |

a. Irritation means irritation of eyes, skin, respiratory system, and mucous membranes.
b. Gastrointestinal (GI) disturbance includes abdominal pain, constipation, weight loss, etc.
c. Nervous system effects include nervousness, narcosis, spasms, depression, euphoria, giddiness, light headedness, numbness, vertigo, dizziness, etc.

**Table C-5. Symptoms of Overexposure and Effects of Potential Chemicals of Concern at the East Section, Former Quartermaster's Fueling System Source Area**

| | Signs of Overexposure | | | | | | |
|---|---|---|---|---|---|---|---|
| Chemical | Headache | Irritation[a] | Dermatitis | GI Disturbance[b] | Nausea | Nervous System[c] | Other |
| Benzene | X | X | X | | X | | Lassitude |
| cis-1,2-Dichloroethene | | X | | | | X | |
| Diesel | X | X | | | X | X | |
| Ethylbenzene | X | X | X | | X | X | |
| Gasoline | X | X | | | X | X | |
| Naphthalene | X | X | X | X | X | X | Confusion, malaise, vomiting |
| Toluene | | | X | | | X | Fatigue, weakness, insomnia |
| 1,1,1-Trichloroethane | X | X | X | X | X | X | Dizziness, unconsciousness, coma |
| Trichloroethene | X | X | X | | X | X | |
| Xylenes | | X | X | X | | X | |

a. Irritation means irritation of eyes, skin, respiratory system, and mucous membranes.
b. Gastrointestinal (GI) disturbance includes abdominal pain, constipation, weight loss, etc.
c. Nervous system effects include nervousness, narcosis, spasms, depression, euphoria, giddiness, light headedness, numbness, vertigo, dizziness, etc.

**Table C-6. Symptoms of Overexposure and Effects of Potential Chemicals of Concern at the Former Explosive Ordnance Disposal Source Area**

| | Signs of Overexposure | | | | | | |
|---|---|---|---|---|---|---|---|
| Chemical | Headache | Irritation[a] | Dermatitis | GI Disturbance[b] | Nausea | Nervous System[c] | Other |
| Diesel | X | X | | | X | X | |
| p-Chlorophenyl methyl sulfoxide | | X | X | X | | | Weakness, unconsciousness, burns |

a. Irritation means irritation of eyes, skin, respiratory system, and mucous membranes.
b. Gastrointestinal (GI) disturbance includes abdominal pain, constipation, weight loss, etc.
c. Nervous system effects include nervousness, narcosis, spasms, depression, euphoria, giddiness, light headedness, numbness, vertigo, dizziness, etc.

### 3.2.3 Dust and Noise Hazards

Drilling may produce high concentrations of airborne particulates when the soil is dry. Inhalation of dust may result in increased exposures to particulate-bound chemicals and to pneumoconiosis (a fibrous hardening of lung tissues that results in decreased lung capacity). Signs of potential overexposure are visible dust in normal light, irritated eyes and respiratory tract, and congested nasal passages. If dust cannot be controlled, air-purifying respirators with high-efficiency particulate air (HEPA) cartridges will be used.

All methods of drilling can create loud, sustained noise. Aircraft associated with the Fort Wainwright airstrip can also create loud noise. Exposure to noise may cause temporary or permanent hearing loss and a ringing in the ears. Hearing protection will be used when the noise level prevents conversation in normal voice at a distance of 3 feet.

## 3.3 Weather Hazards

Climatological information for the Fairbanks area is listed below (University of Alaska, 1976).

| Climatological Data | July | October | January | April |
|---|---|---|---|---|
| Average Wind Speed (mph)/ Direction | 6.7/SW | 5.4/N | 3.1/N | 6.7/N |
| Mean High Temperature, °F | 72 | 32 | -4 | 41 |
| Mean Low Temperature, °F | 51 | 18 | -22 | 20 |
| Precipitation (inches) | 1.77 | 0.74 | 0.50 | 0.27 |

mph Miles per hour
°F Degrees Fahrenheit

Field activities are planned to occur between April and October. Mean monthly temperatures during this time in the Fairbanks area range from approximately 20 degrees Fahrenheit (°F) to 70°F. Daily extreme temperatures during this period range from approximately -30°F to 90°F.

If field activities occur during rainstorms, snow storms, or dense fog, field workers will wear waterproof outer garments to avoid cold stress. The early signs of cold stress are shivering, numbness, and pain in the extremities. Hypothermia is the most significant form of cold stress and the more serious signs of hypothermia are sleepiness, loss of motor control, failing eyesight, and loss of consciousness.

A person with hypothermia will be moved to a warm, dry area. Cold or wet clothes will be removed and warm, dry clothing and blankets provided. The person should be seen by a physician as soon as possible.

Field activities, especially drilling, will be suspended during high winds, snowstorms, or heavy fogs (i.e., conditions that reduce visibility to a distance less than the distance from the support zone to the exclusion zone [see Section 5.1]). The decision to suspend activities will be made by the SSHO.

## 3.4 Biological Hazards

### 3.4.1 Insect-Related Hazards

Mosquitoes are an expected hazard that may occur in the Fort Wainwright area. Commercially available mosquito repellents may be used to protect exposed areas of skin. Long-sleeved shirts and other protective clothing can provide a barrier to other exposed areas of skin.

### 3.4.2 Fox, Moose, and Bear

Fox, moose, and bear may also be present. Although usually not antagonistic toward humans, animals in mating season and mothers with their young may be aggressive. If rabid, any animal can be dangerous to humans without provocation. If confronted, field personnel should seek shelter in buildings or in the cabs of their site vehicles.

Because food and garbage attract bears, none will be thrown on the site. Section 5.6, Site Safety Work Practices, prohibits eating in the exclusion or contaminant reduction zones.

### 3.4.3 Plants

Devil's club and cow parsnip are two plants commonly found in moist areas in Alaska. Devil's club has thorny stems and leaves. Thorns from devil's club frequently become embedded in the skin, causing mild infection.

Cow parsnip appears similar to water hemlock and wild celery, having a tall stalk and a wide, flowering head. Cow parsnip contains an oil that causes skin to become photosensitive, leading to severe, blistering sunburns of unprotected skin.

To prevent injury from either plant, personnel should wear long pants and shirts with long sleeves, or coveralls in wooded areas.

## 4.0 RISK ANALYSIS

The tasks to be performed at the areas of concern include 1) soil boring and sampling, 2) groundwater sampling, and 3) decontamination. The risk analysis for each of these tasks is summarized in Table 7.

### Table C-7. Risk Analysis

| Task/Hazard | Exposure | Probability | Consequence |
|---|---|---|---|
| Soil Boring and Sampling | | | |
| Postholer - mechanical | a | d | b,c,d |
| Postholer - acoustical | a | d | e |
| Drill rig - mechanical | a | d | a,b,c,d |
| Drill rig - acoustical | a | a | e |
| Chemical exposure | c | d | d,e |
| Structural hazard | a | b | b,c,d |
| Biological exposure | c | d | b,c,d |
| Temperature exposure | a | b | a,b,c,d |
| Groundwater Sampling | | | |
| Generator - mechanical | c | d | c,d |
| Generator - electrical | c | c | a,b,c,d |
| Generator - acoustical | c | d | e |
| Pump/pipe - mechanical | b | c | b,c,d |
| Pump/pipe - electrical | b | c | a,b,c,d |
| Chemical exposure | b | c | d,e |
| Biological exposure | c | d | b,c,d |
| Temperature exposure | a | b | a,b,c,d |
| Decontamination | | | |
| Steam cleaner - mechanical | b | d | b,c,d |
| Steam cleaner - electrical | b | d | a,b,c,d |
| Generator - mechanical | c | d | c,d |
| Generator - electrical | b | d | a,b,c,d |
| Generator - acoustical | c | d | e |
| Chemical exposure | b | c | d,e |
| Biological exposure | c | d | b,c,d |
| Temperature exposure | a | b | a,b,c,d |

Exposure: The frequency of exposure to the hazard event.

a = Continuously, many times daily.
b = Frequently, once or twice per day.
c = Occasionally, once per week to once per month.
d = Seldom, once per month to once per year.

Probability: The likelihood that an injury will occur upon exposure to the hazard event.

a = Certain or almost certain.
b = Likely, not unusual, 50 percent chance of occurring.
c = Unusual, would happen less than 50 percent of the time.
d = Improbable, not likely to happen.

Consequence: The probable degree of injury if an injury does occur.

a = Fatality.
b = Serious injury, including chemical exposure, requiring hospitalization.
c = Moderate injury, including chemical exposure, requiring outpatient medical treatment.
d = Minor injury, including chemical exposure, requiring onsite first aid.
e = Chemical, acoustical, or other exposure above permissible exposure limit or other recommended. standard that may not produce immediate acute effects (especially for chronic toxicants).

## 5.1 Work Zones, Site Access, and Site Security

The SSHO and field operations team members will be responsible for establishing work zones and for maintaining site access and security. Work zone selection will take into account the proximity of obstacles, as well as restrictions on access.

When possible, the exclusion zone will consist of the area within 50 feet of an active drill site or sampling operation. When buildings are located within 100 feet of the drill site, the exclusion zone may be changed at the discretion of the SSHO, and a line of communication will be established with building personnel. If air monitoring indicates increased levels of volatile compounds in the ambient air, the exclusion zone will be expanded by the SSHO. The exclusion zone will be marked by a cordon of red tape. Only project personnel involved with drilling or sampling activities will be allowed inside the exclusion zone.

The contaminant reduction zone will be a decontamination area established just outside of the defined exclusion zone. Only project personnel will be allowed within the contaminant reduction zone, which will be marked with yellow tape and/or traffic barriers.

The support zone will be the area surrounding the decontamination area. Visitors will be allowed into the support zone only if they comply with the provisions of this SSHP. See Figure C-5 for an illustration of a generic site control zone.

## 5.2 Environmental Monitoring

Many of the hazardous conditions that may occur can be detected through direct-reading and other real-time monitoring instruments. This section describes several types of monitoring that may be conducted. Results of all monitoring will be recorded in the field records. The records will include the instrument used, the date and time, daily/weekly calibration information, and the results. On completion of fieldwork, the results of field monitoring will be compiled and reported to the project manager.

Because of the nature of the invasive investigation, direct-reading air monitoring instruments will be used to monitor the breathing zone and soil boring gas emissions. Other types of monitoring may include colorimetric tubes and dust monitoring. The prescribed uses and maximum allowable action levels to be used during the site investigation are described below for several types of environmental monitors.

Additional types of monitoring may be needed if source areas with indications of toxic concentrations are added to the scope of work, or if unexpected toxic concentrations are encountered at the planned sites. In such events, monitoring with personal sampling pumps or with personal dosage badges may be needed to evaluate whether increased levels of protection (use of respirators or supplied air) are warranted. If activities extend beyond 5 workdays at an individual site, personal monitoring may be halted by the SSHO if the results indicate that the monitoring procedures contained in Sections 5.2.1 through 5.2.4 are adequate.

If personal monitoring becomes necessary, the corresponding National Institute for Occupational Safety and Health (NIOSH) procedures, quality control procedures, and instrument checking and calibration requirements should be added to this SSHP.

### 5.2.1 Total Organic Vapor Monitoring

Periodic monitoring of the breathing zone with a photoionization detector (PID) or a flame ionization detector (FID) will be conducted by the SSHO or designee. Measurements will be taken to establish background levels before an activity begins. Levels will be recorded approximately every 30 minutes or when conditions change

during drilling and sampling. All air monitoring results (i.e., both detected and nondetected results) will be recorded in the field records.

If the total organic vapor (TOV) concentration is 1 to 5 parts per million (ppm) above background in the breathing zone, the air will be monitored continuously and ambient air will be analyzed with colorimetric tubes. See Section 5.2.3 for information on the use of colorimetric tubes.

### 5.2.2 Combustible Gas Monitoring During Drilling

During drilling, combustible gas levels (CGLs) will be measured approximately every 30 minutes with a combustible gas meter (e.g., Exotox meter). The readings will be taken downwind approximately 2 inches from the top of the auger. Drilling activities may proceed with caution if the CGL remains below 10 percent of the lower explosive limit (LEL) and TOV concentrations in the breathing zone remain below 5 ppm above background.

If the CGL is 10 to 20 percent of the LEL, drilling may continue, but increased monitoring (approximately every 15 minutes) and caution will be used. If the CGL exceeds 20 percent LEL, operations will cease and all personnel must leave the site. The project manager will be contacted immediately regarding this potentially hazardous condition.

Once work is stopped, the gas level should be checked approximately every 10 minutes. Work may resume when the level is below 10 percent LEL, with the concurrence of the project manager.

If the CGL remains above 20 percent LEL for more than 10 minutes, artificial vapor purging should be implemented. Purging may be accomplished by using a mechanical blower or by adding carbon dioxide to the boring.

### 5.2.3 Colorimetric Vapor Detection Tube Monitoring

If the organic vapor monitor (OVM) sustains a reading of 1 to 5 ppm above background within the breathing zone for a duration of 1 minute, the presence of benzene will be identified and quantified with colorimetric benzene detector tubes. Benzene was chosen as the chemical to identify, because it has the lowest permissible exposure limit (1 ppm) of the organic chemicals suspected to be onsite. Initial benzene monitoring should be performed with detector tubes having a measuring range of 0.5 to 10 ppm.

If benzene is detected at concentrations greater than 0.5 ppm, don a half-face or full-face respirator with organic vapor cartridges. The maximum use concentration for a half-face respirator is 10 ppm benzene. The maximum use concentration for a full-face respirator is 50 ppm benzene.

If benzene is not detected, don a half-face respirator with organic vapor cartridges when TOV readings indicate 5 ppm for 1 minute. The half-face respirator may be worn when concentrations range from 5 to 50 ppm or until cartridge breakthrough. Breakthrough is indicated by odor, taste, or irritation.

If benzene or TOV is detected above the maximum use concentrations, either upgrade to Level B (supplied air), or cease operations and move upwind of the exclusion zone. Immediately notify the SSHO and the project manager of the hazardous condition.

Respirator cartridges will be replaced on an as needed basis to avoid breakthrough.

### 5.2.4 Dust Monitoring

Dust levels will be observed, and will require action if dust is visible in normal light, the eyes and respiratory tract become irritated, or the nasal passages become congested. If these conditions exist, field workers will don a half-face respirator with HEPA or HEPA/organic vapor cartridges.

### 5.2.5 Noise Monitoring

High levels of noise may occur at the work sites either from field operations or from Fort Wainwright operations conducted near the sampling locations. As noted in Section 3.2.3, hearing protection will be used when the noise level prevents conversation in normal voice at a distance of 3 feet. Hearing protection will be worn during drilling activities.

### 5.2.6 Cold Stress Monitoring

Because prolonged exposure to cold air or cold water at temperatures well above freezing can lead to hypothermia, whole body protection will be provided. Insulated dry clothing will be worn if work is to be performed in air temperatures below 40°F. The wind chill factor should be considered when selecting appropriate insulating clothing.

If work is to be performed continuously at temperatures below 20°F, heated vehicles should be made available nearby. Frequency of use will depend on the severity of the environmental conditions. If a worker's clothing become wet, he or she will change into dry clothing. Warm, sweet drinks should be provided at the work site to provide calories and fluid.

### 5.2.7 Heat Stress Monitoring

If the ambient temperature becomes greater than 70°F, heat stress monitoring will be conducted by observing the workers. Breaks will be taken if a worker exhibits symptoms of heat stress. The breaks will last at least until the pulse of each worker is less than 120 beats per minute. Workers will keep hydrated by drinking fluids.

## 5.3 Personal Protective Equipment

### 5.3.1 Clothing and Protective Devices

Initially, Level C protection will be used for all site activities within all investigation zones. The level of personal protection may be downgraded to Level D at the discretion of the SSHO, depending on site conditions and TOV concentrations.

The following are basic Level C PPE:

- Half- or full-face air-purifying respirators with HEPA/organic vapor cartridges;
- Cotton/polyester or Tyvek coveralls large enough to fit over cold weather clothing;
- Knit caps for cold weather;
- Nitrile gloves;
- Chemical-resistant, steel-toe/shank footwear; or insulated, chemical-resistant, steel toe/shank boots;
- Safety glasses;
- Boot covers (if boots are not chemical-resistant or material cannot be adequately decontaminated).

When work is being conducted at suspected dioxin- or PCB-contaminated sites, the outer gloves will be of dioxin- and PCB-resistant material, such as Silver Shield brand. Additional Level C PPE items for work at a drilling rig will include

- Hard hat
- Hearing protection

Well development and activities that do not generate dust may be downgraded to Level D at the discretion of the field supervisor. Additional Level D PPE items for well development and steam-cleaning equipment follow:

- Polycoated Tyvek coveralls
- Face shields or goggles
- Hearing protection (when generator in use)

The protection will remain at Level C if TOV concentrations in the breathing zone increase above the site-specific action limit(s). If a TOV reading in the breathing zone exceeds 50 ppm (10 times the action level of 5 ppm), the field operations personnel should:

- Shut down all equipment.
- Evacuate the site.
- Notify the project manager.

### 5.3.2 Protective Equipment and Materials

The following first-aid items will be present at the site during all activities:

- A first-aid kit appropriate for a construction/industrial site,
- An ABC-type fire extinguisher,
- Potable water for drinking and skin washing.

## 5.4 Communications

Hand-held radio phones and/or cellular phones will be used for conversations between work parties, emergency personnel, and the project manager. In addition, the East and West QFS areas are located near several buildings with telephones. For example, a pay phone is located adjacent to Building 1070.

## 5.5 Decontamination

The following sections describe decontamination requirements for employees and their PPE, sampling equipment, and soil and purge water storage containers.

### 5.5.1 Employee and Personal Protective Equipment

Contaminated PPE will be removed according to the procedures described in the "Guidance Manual for Hazardous Waste Site Activities" (NIOSH, 1985). Decontamination will consist of placing contaminated PPE in polyethylene bags for decontamination or disposal. Reusable coveralls will be washed separately from noncontaminated items. The coveralls will not be worn in the support zone, vehicles, or offices. After removing contaminated clothing, workers will wash all exposed skin with soap and water before leaving the site.

Respirators and other nondisposable PPE will be cleaned with potable water and soap, rinsed, and air dried. In addition, the respirators will be decontaminated using a sanitizer. All detachable parts such as straps, valves, and gaskets will be removed. Cartridges cannot be cleaned, but may be used again if their service life has not been exhausted. The face pieces and other parts of the respirators will be washed separately in sanitizer solution. The parts should go through two water rinses and be left to air dry in a location away from contamination. When dry, the respirators will be reassembled, placed in a clean plastic bag, and stored where they will be protected from temperature extremes, dust, or contamination.

In the case of a medical emergency, contaminated clothing and PPE may be removed from the injured party, as well as from those assisting, before transporting the injured to emergency treatment.

### 5.5.2 Sampling Equipment

Sampling equipment will be steam cleaned or washed with nonphosphate detergent and rinsed with potable water, deionized water, pesticide-grade methanol, and pesticide-grade hexane.

Chemicals used for decontamination (e.g., hexane and methanol), or sample preservation (nitric acid) will be handled and disposed of properly. An MSDS describing safe handling practices for each of these chemicals is included in Attachment C.

## 5.6 Site Safety Work Practices

The following safe working practices will be followed at all times in the field:

- First-aid treatment will be administered by trained personnel.
- Eating, drinking, chewing gum or tobacco, and smoking will be prohibited in the exclusion and contaminant reduction zones.
- When respirators are required, facial hair that interferes with the fit of the respirator will not be permitted.
- Contact lenses will not be worn in the exclusion or contaminant reduction zones.
- Contact with contaminated or potentially contaminated surfaces will be avoided.
- The buddy system should be used.

- Visual contact will be maintained between team members at all times when in the exclusion zone.
- Sampling equipment and vehicles will not block egress from any building or installation operation.
- During drilling, if underground tanks, piping, or electrical lines are encountered, the shut-off of fluid flow or electric power will be coordinated by the SSHO. At least 10 feet of clearance from overhead lines will be maintained. Before drilling, probing 3 to 5 feet below the surface with hand tools will be required if there is doubt about the exact location of underground lines.
- Before entering a work site, each worker will attend the morning safety meeting and make certain that appropriate PPE apparel has been donned when in the contaminant reduction zone approaching an exclusion zone. Visitors or inspectors intending to pass through a contaminant reduction zone to an exclusion zone will be responsible for having documentation of appropriate safety/health training and PPE.
- On exiting an exclusion zone and entering a contaminant reduction zone, procedures presented in Section 5.5.1 will be followed by each worker. All exposed skin should be washed before leaving a support zone.

## 5.7 Morning Safety Meetings and Initial Site-Specific Training

Morning safety meetings will be conducted by the SSHO before work begins for each phase of field operations. Additional meetings will be held at the discretion of the SSHO. The meetings will review the expected hazards, conditions, locations of equipment, and required safety equipment and procedures. A written attendance and meeting record will be maintained with the project file.

During the first safety meeting, site-specific training for monitoring equipment, safety equipment, and safety precautions will be provided. This training may be repeated for any worker or site visitor not present at the initial training. A written record of this training will be maintained with the project file.

# 6.0 EMERGENCY PROCEDURES

## 6.1 Potential Emergency Conditions and Responses

Accidents resulting in emergency conditions that will cause the immediate shutdown of site operations include

- Hitting an underground utility line or object;
- Personal injury of a site worker or visitor;
- Adverse weather conditions (blizzards, extremely low temperatures, or high winds);
- Equipment malfunction, especially of the drilling rig or PPE;
- Concentrations of explosive gases above 20 percent LEL;
- TOV in the breathing zone exceeding 50 ppm.

Several of these incidents, and others that cannot be anticipated, may require evacuation of the site. The SSHO will establish the location of an evacuation area based on site and weather conditions. The evacuation area will be upwind of the active operations. The SSHO will report any hazardous condition and the response action to the project manager immediately.

If an individual is injured on the job, work will cease and first aid will be administered by trained personnel to stabilize the condition of the injured person and limit further injury. The injured person will be transported to the nearest emergency medical facility for treatment. The project manager, in association with the SSHO, will complete an Accident Investigation Report form within 24 hours of the incident.

If a potentially hazardous liquid is spilled, it must be immediately recovered using absorbent materials and appropriate PPE. The recovered liquid and absorbent materials will be contained in 55-gallon drums or other suitable vessels. The containers will be marked and stored until it is decided whether the material is to be disposed of as hazardous waste.

## 6.2 Emergency Contacts

**Fort Wainwright Directorate of Public Works (DPW)**

- Jackie Rindgen DeCecco 353-9949
- Joe Malen 353-6160

**OB/OD Area (within small arms impact range)**

- Butch O'Neill 353-1265

**USACE Project Manager**

- Richard Jackson 753-5606

### 6.2.1 Hospital and Fire Department Contacts

- Fort Wainwright Basset Army Community Hospital
  Phone No. 353-5221
  Post Fire Department, Phone No. 353-6561
- Fairbanks Memorial Hospital
  1650 Cowles Street
  Phone No. 911
  Fire Department, Phone No. 459-6500

### 6.2.2 Directions to Bassett Army Community Hospital

The route for traveling from each of the source areas to Bassett Army Community Hospital is shown on Figure C-6 and is described below.

- **From the East and West QFS areas:**
  - Travel west on Gaffney Road
  - Turn south on Ninth Street, then
  - Turn into hospital driveway
- **From the OB/OD area:**
  - Travel north to Old Richardson Highway
  - Turn west and proceed to the Main Gate
  - Proceed on Gaffney Road

- Turn right on 602nd Street to the hospital

### 6.2.3 Directions to Fairbanks Memorial Hospital

The routes for traveling from each Fort Wainwright gate to Fairbanks Memorial Hospital are shown on Figure C-7 and are described below.

- **From Main Gate:**
  - Travel west on Airport Road
  - Turn left (south) on Cowles Street, travel 1/4 mile
  - The hospital is on the left
- **From Trainor Gate:**
  - Travel west on Trainor Road
  - Turn left on Steese Highway
  - Turn right on Airport Road
  - Turn left on Cowles Street, travel 1/4 mile
  - The hospital is on the left
- **From South Gate:**
  - Travel west on Richardson Highway
  - Turn left on Airport Road
  - Turn left on Cowles Street, travel 1/4 mile
  - The hospital is on the left

# 7.0 BIBLIOGRAPHY


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# FIGURES

FAIRBANKS

CHENA RIVER

WEST SECTION, FORMER QUARTERMASTER'S FUELING SYSTEM AREA

EAST SECTION, FORMER QUARTERMASTER'S FUELING SYSTEM AREA

MONTEREY LAKE

SOUTH GATE HOUSE

RICHARDSON HWY

BADGER ROAD

DENNIS MANOR SUBDIVISION

ARCTIC SURPLUS

NORTH

0 1250 2500 5000

SCALE IN FEET

LEGEND

- ROADS AND PARKING, PAVED
- ROADS AND PARKING, UNPAVED
- RESERVATION BOUNDARY
- RAILROAD
- STREAM
- SHORELINE
- TRAIL
- BRIDGE

FLOOD CONTROL DIKE

POND (FORMER BORROW AREA)

OPEN BURNING/OPEN DETONATION AREA

GOOSE ISLAND

TANANA RIVER

MERIDIAN ISLAND

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ANCHORAGE, ALASKA

DESIGNED:
DRAWN: BJ
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CHECKED:
SUBMITTED:
CHIEF, ARCHITECTURAL SECTION
RECOMMENDED:
CHIEF, MILITARY TECHNICAL ENGINEERING BRANCH

Fort Wainwright, Alaska
OU 5, RI/FS Management Plan

**Site Map**
**Site Safety and Health Plan**

APPROVED: PCR
CHIEF, ENGINEERING DIVISION

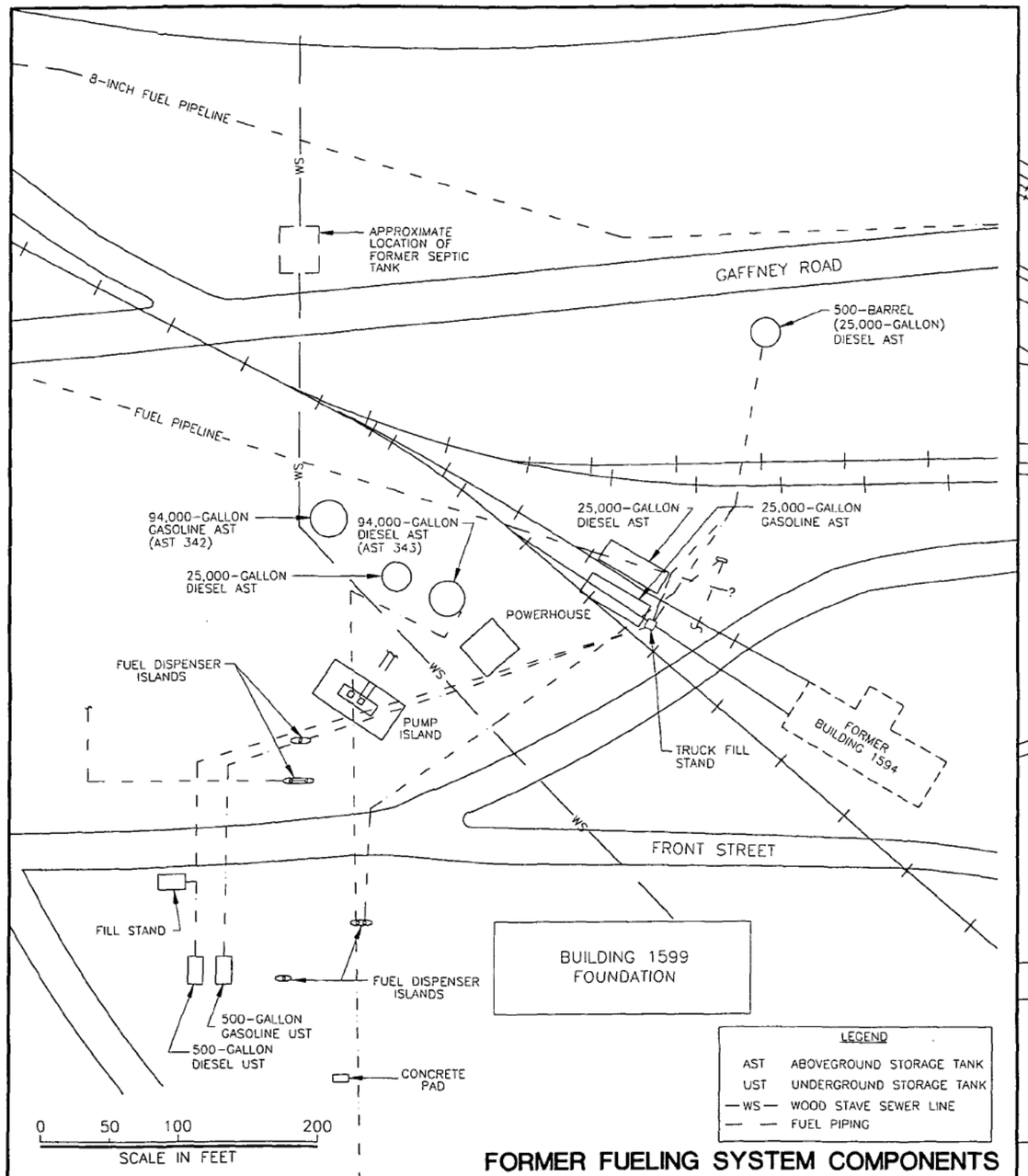
DATE: 10/94

SCALE: NOTED

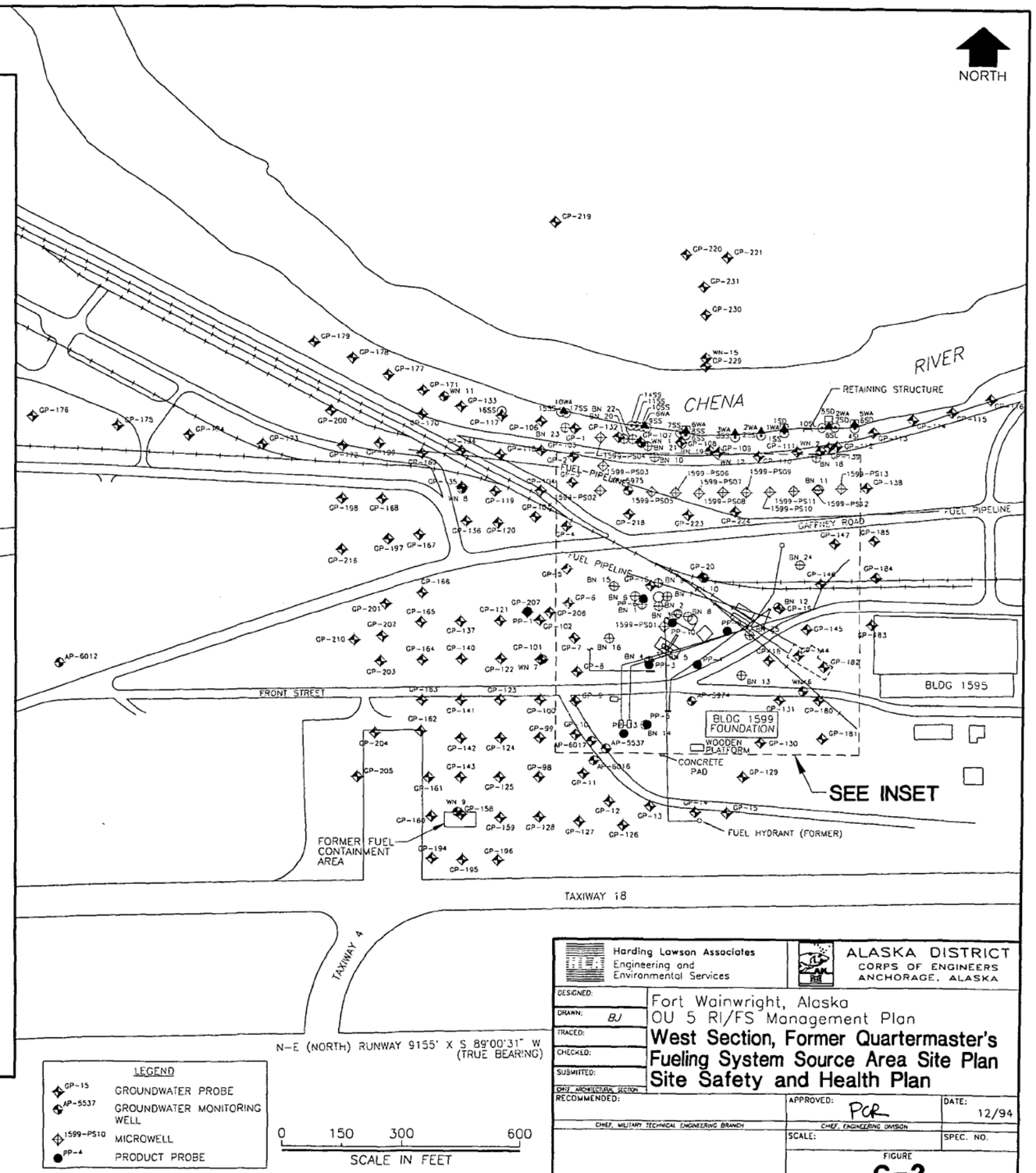
SPEC. NO.

FIGURE
**C-1**

119b




FORMER FUELING SYSTEM COMPONENTS

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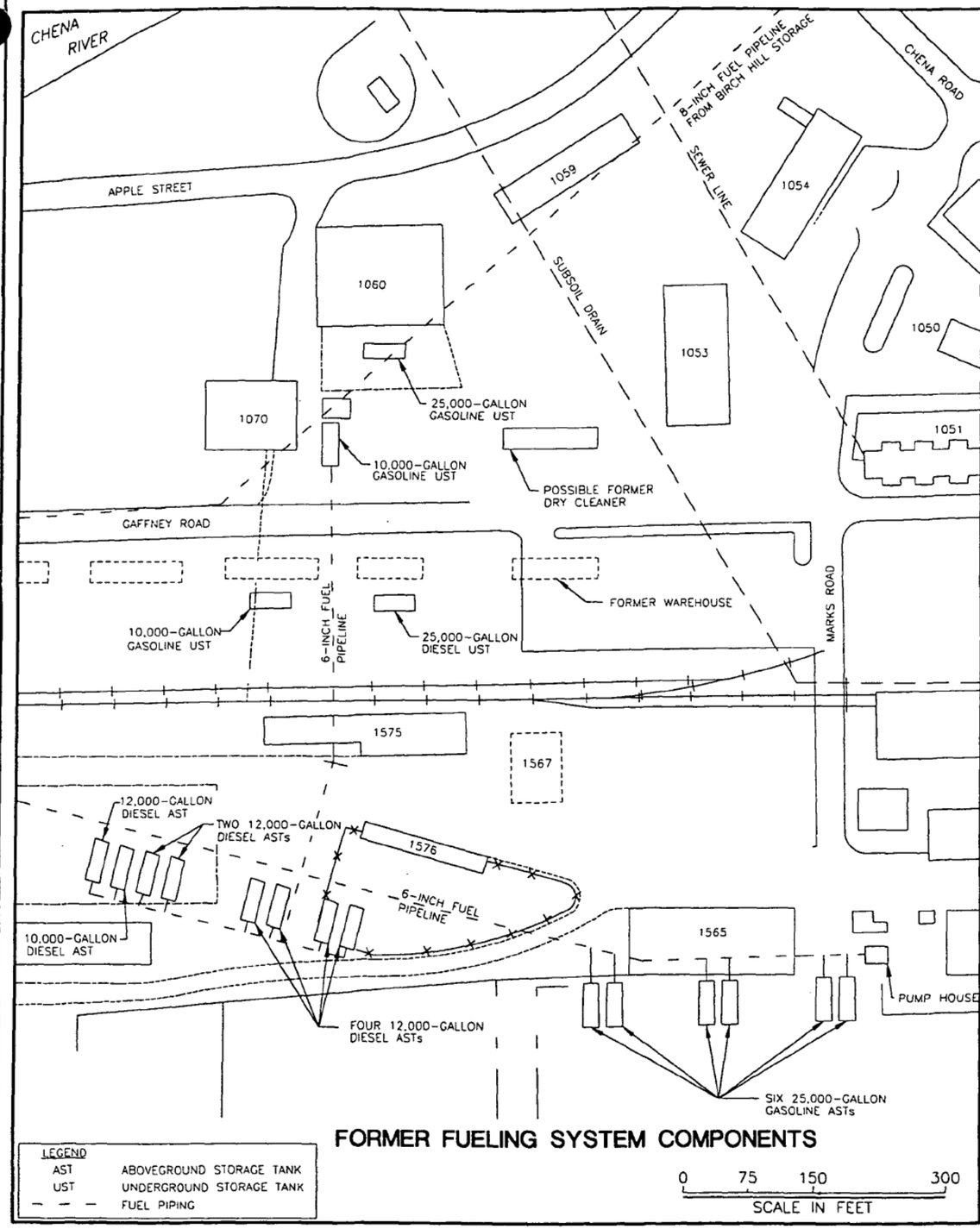
RECOMMENDED:
CHIEF, MILITARY TECHNICAL ENGINEERING BRANCH

Fort Wainwright, Alaska
OU 5 RI/FS Management Plan

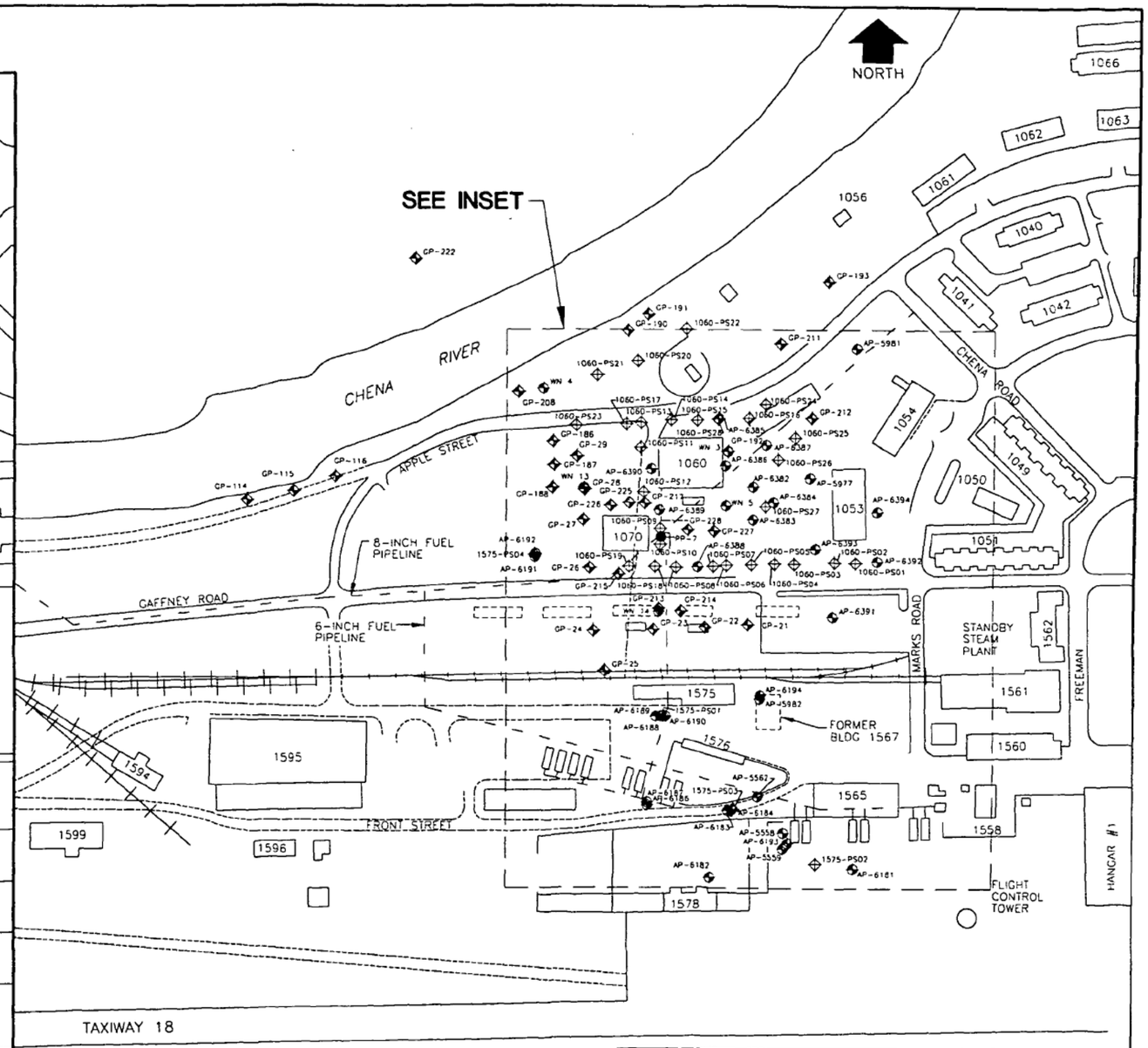
**West Section, Former Quartermaster's Fueling System Source Area Site Plan**
**Site Safety and Health Plan**

APPROVED: PCR
CHIEF, ENGINEERING DIVISION
DATE: 12/94
SCALE:
SPEC. NO.
FIGURE
**C-2**

OU5_4




## FORMER FUELING SYSTEM COMPONENTS

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RECOMMENDED:
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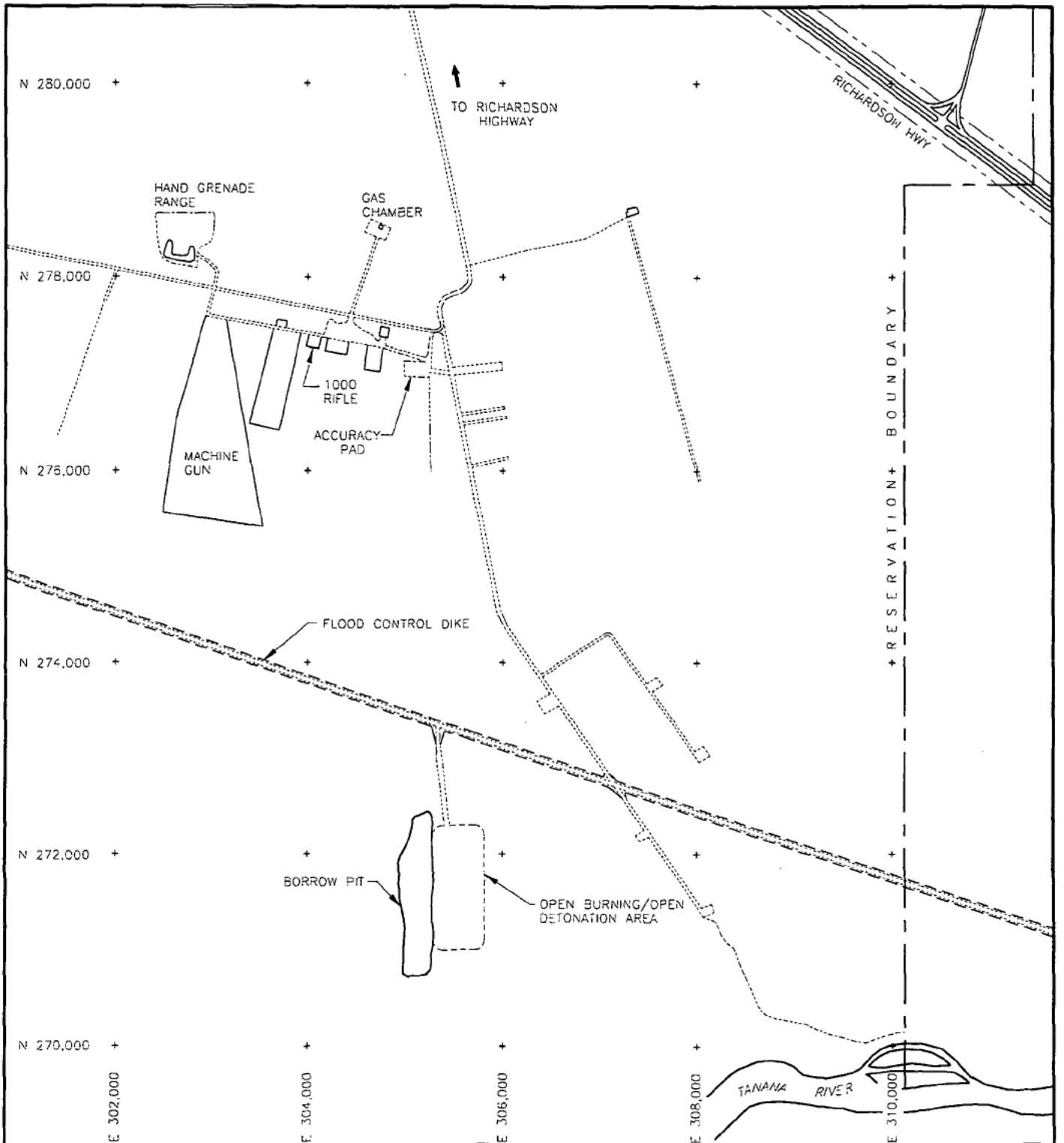
Fort Wainwright, Alaska
OU 5, RI/FS Management Plan

**East Section, Former Quartermaster's Fueling System Source Area Site Plan**
**Site Safety and Health Plan**

APPROVED: PCR
CHIEF, ENGINEERING DIVISION
12/94
SCALE:
SPEC. NO.
FIGURE
**C-3**

OU5_5




REFERENCE: DIRECTOR OF FACILITIES ENGINEERING, AS-BUILT, SQUAD LIVE FIRE ASSAULT RANGE, LOCATION AND VICINITY MAP, DATED 5/81.

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ALASKA DISTRICT
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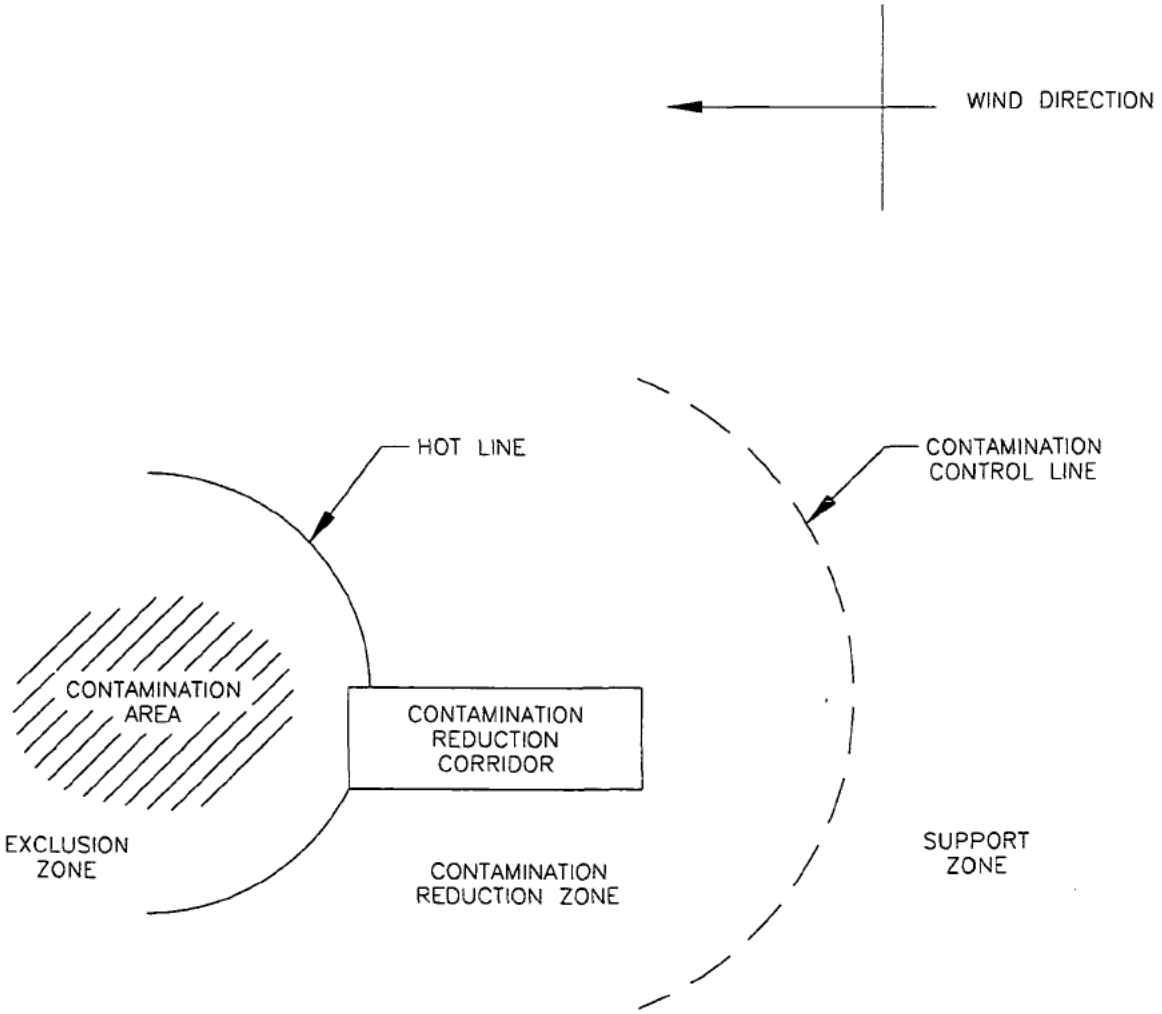
ANCHORAGE, ALASKA

| | |
|---|---|
| DESIGNED: | Fort Wainwright, Alaska |
| DRAWN: JP | OU 5, RI/FS Management Plan |
| TRACED: | **Open Burning/Open Detonation Area** |
| CHECKED: | |
| SUBMITTED: | **Site Safety and Health Plan** |
| CHIEF, ARCHITECTURAL SECTION | |
| RECOMMENDED: | APPROVED: PCR — DATE: 1/95 |
| CHIEF, MILITARY TECHNICAL ENGINEERING BRANCH | CHIEF, ENGINEERING DIVISION |
| | SCALE: NOTED — SPEC. NO. |
| | FIGURE **C-4** |

1995

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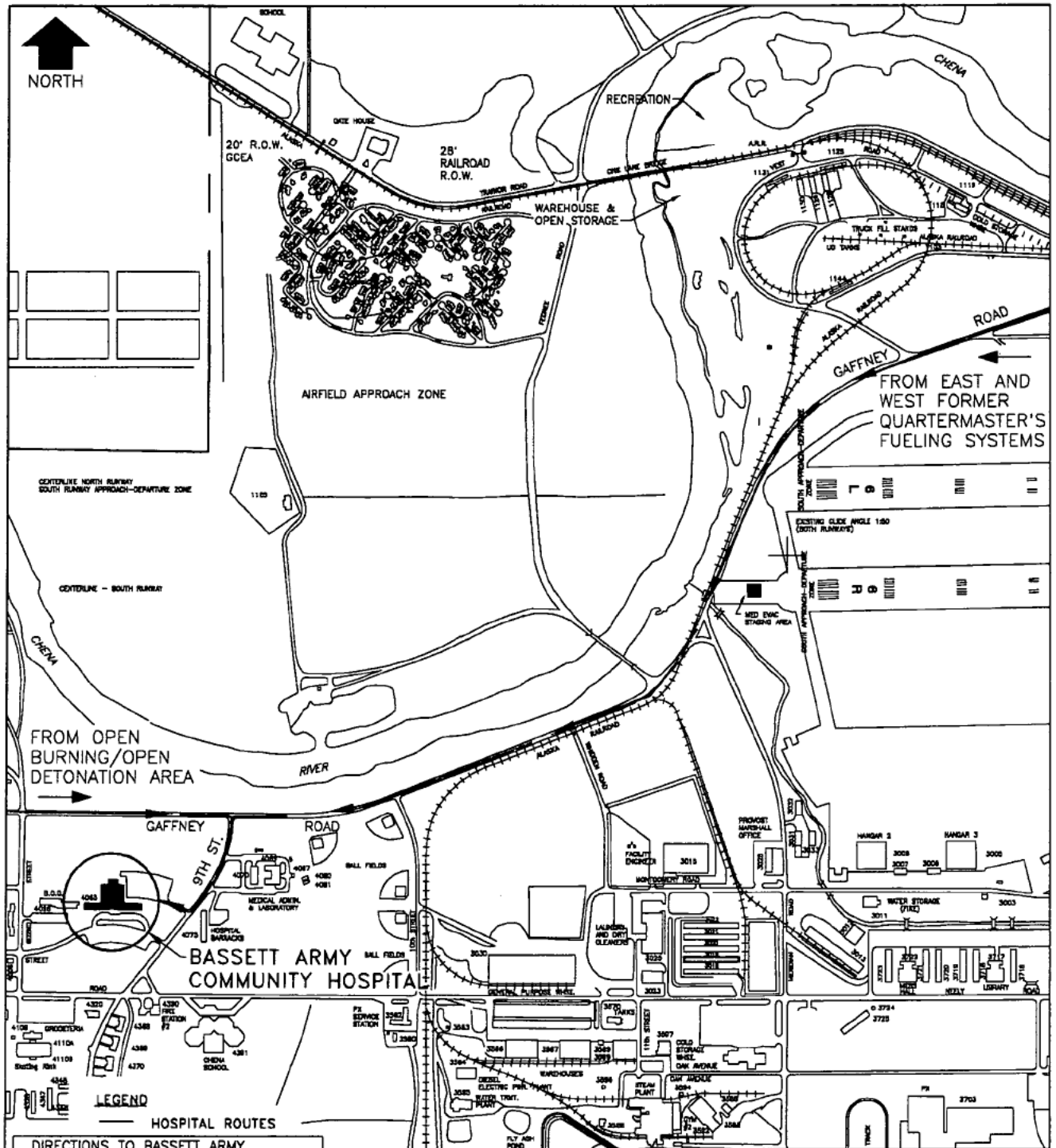
|---|---|---|
| Harding Lawson Associates Engineering and Environmental Services | ALASKA DISTRICT CORPS OF ENGINEERS ANCHORAGE, ALASKA | |
| DESIGNED: | Fort Wainwright, Alaska<br>OU 5, RI/FS Management Plan | |
| DRAWN: PB | | |
| TRACED: | | |
| CHECKED: | **Generic Site Control Zones Site Safety and Health Plan** | |
| SUBMITTED: | | |
| CHIEF, ARCHITECTURAL SECTION | | |
| RECOMMENDED: | APPROVED: PCR | DATE: 12/94 |
| CHIEF, MILITARY TECHNICAL ENGINEERING BRANCH | CHIEF, ENGINEERING DIVISION | |
| | SCALE: NOTED | SPEC. NO. |
| | FIGURE **C-5** | |

196b




DIRECTIONS TO BASSETT ARMY COMMUNITY HOSPITAL

FROM EAST AND WEST FORMER QUARTERMASTER'S FUELING SYSTEM

- TRAVEL WEST ON GAFFNEY ROAD
- TURN SOUTH ON NINTH STREET, THEN
- TURN INTO HOSPITAL DRIVEWAY

FROM OPEN BURNING/OPEN DETONATION AREA

- TRAVEL NORTH TO OLD RICHARDSON HIGHWAY
- TURN WEST AND PROCEED TO THE MAIN GATE
- PROCEED ON GAFFNEY ROAD
- TURN RIGHT ON 602ND STREET TO THE HOSPITAL

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DESIGNED:
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TRACED:
CHECKED:
SUBMITTED:
CHIEF, ARCHITECTURAL SECTION

Fort Wainwright, Alaska
OU 5, RI/FS Management Plan

**Bassett Army Community Hospital Site Safety and Health Plan**

RECOMMENDED:
CHIEF, MILITARY TECHNICAL ENGINEERING BRANCH

APPROVED:
CHIEF, ENGINEERING DIVISION

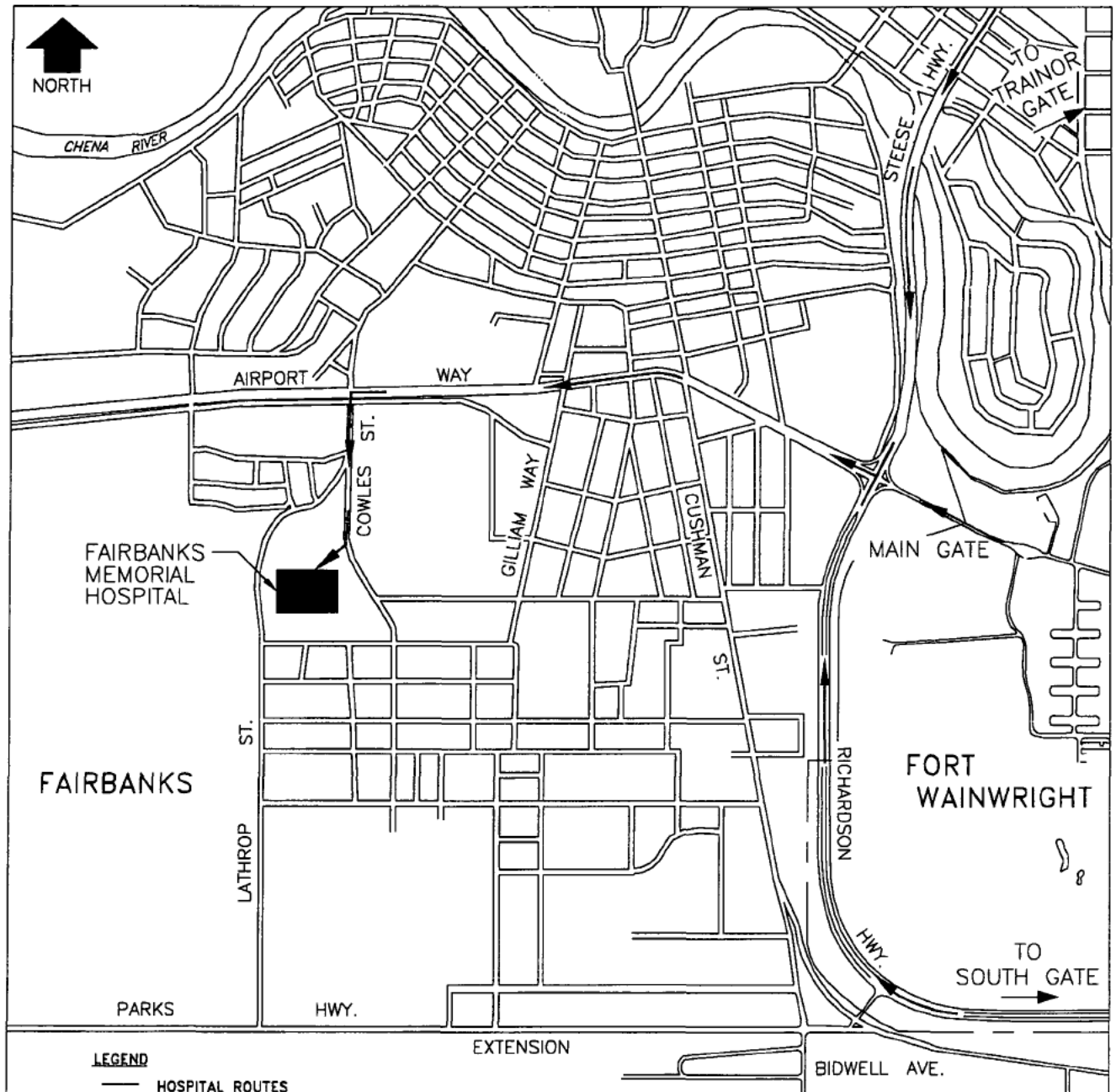
DATE: 12/94

SCALE:

SPEC. NO.

FIGURE
**C-6**

196b




**LEGEND**

—— HOSPITAL ROUTES

| DIRECTIONS TO FAIRBANKS MEMORIAL HOSPITAL |
|---|
| FROM MAIN GATE |
| - TRAVEL WEST ON AIRPORT WAY |
| - TURN LEFT (SOUTH) ON COWLES STREET, TRAVEL 1/4 MILE |
| - THE HOSPITAL IS ON THE LEFT |
| FROM TRAINOR GATE |
| - TRAVEL WEST ON TRAINOR ROAD |
| - TURN LEFT ON STEESE HIGHWAY |
| - TURN RIGHT ON AIRPORT WAY |
| - TURN LEFT ON COWLES STREET, TRAVEL 1/4 MILE |
| - THE HOSPITAL IS ON THE LEFT |
| FROM SOUTH GATE |
| - TRAVEL WEST ON RICHARDSON HIGHWAY |
| - TURN LEFT ON AIRPORT WAY |
| - TURN LEFT ON COWLES STREET, TRAVEL 1/4 MILE |
| - THE HOSPITAL IS ON THE LEFT |

0 750 1500 3000
SCALE IN FEET

SOURCE: U.S. GEOLOGICAL SURVEY MAP, FAIRBANKS, (D-2 SE) ALASKA, 1966

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RECOMMENDED:
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Fort Wainwright, Alaska
OU 5, RI/FS Management Plan

**Fairbanks Memorial Hospital Site Safety and Health Plan**

APPROVED:
CHIEF, ENGINEERING DIVISION
DATE: 12/94
SCALE: NOTED
SPEC. NO.
FIGURE
**C-7**

196b

# ATTACHMENT A

## SITE SAFETY AND HEALTH PLAN REVIEW

## RECORD AND DAILY ENTRY LOG

## SITE SAFETY AND HEALTH PLAN REVIEW RECORD

Site Location: Fort Wainwright

I have read the Site Safety and Health Plan for this site and have been briefed on the nature, level, and degree of exposure likely as a result of this project. I agree to conform to all the requirements of this plan.

| Name (printed) | Signature | Organization | Date |
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# DAILY ENTRY LOG

Site Location: Fort Wainwright

| Name (printed) | Signature | Organization | Date | Time In | Time Out |
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# ATTACHMENT B

# ACTIVITY HAZARD ANALYSIS

## ATTACHMENT B

## ACTIVITY HAZARD ANALYSIS

| Type of Work | Hazard | Precaution |
|---|---|---|
| General field operations | Explosive atmosphere | Monitor borings with appropriate instruments. Refer to Section 5.2 for instrument and action levels to be used. Prohibit smoking, or use of open flame or source of ignition onsite. |
| | Wild animals | Small mammals such as foxes that appear tame or unafraid should be avoided. Such behavior may be indicative of rabies infection. Wild animals are never to be fed. Always give large mammals a wide berth. |
| | Other biological hazards:<br>• devil's club<br>• mosquitoes<br>• contaminated water | Employees are to wear tough, tear-resistant coverall clothing with loose-fitting layers underneath. Mosquito repellent and potable water will be brought to the site. |
| | Temperature exposure:<br>• cold stress<br>• hypothermia<br>• frostbite | Wear multilayer outfits with wind- and water-resistant outer layer. Shed layers as needed to avoid overheating. Drink fluids. Use buddy system. |
| | Electrical | Locate and mark buried utilities before drilling or excavating. Properly ground all electrical equipment. Maintain at least 10 feet of clearance from overhead power lines. |
| | Ergonomic | Good body mechanics and proper lifting practices should be taught and enforced. Tasks should be matched to individuals. Employees should avoid fatigue and stress by drinking fluids throughout the day, by taking rest breaks as appropriate, and by getting sufficient sleep each night. |
| Soil boring | Drilling rig:<br>• mechanical<br>• acoustical<br>• airborne debris<br>• chemical exposure | Verify that equipment is in good working condition. Stand out of reach of rotating, revolving machinery and cables. Wear ear protection, hard hat, and safety eyeglasses. Monitor breathing air space around boring with proper instrument and don respirator if necessary. See Section 5.2 for guidelines. |
| Soil sampling | Dermal and respiratory contact with or ingestion of contaminated soil | Wear proper personal protective equipment (PPE) while sampling soil (see Section 5.3). |

## ATTACHMENT B

## ACTIVITY HAZARD ANALYSIS

## (continued)

| Type of Work | Hazard | Precaution |
|---|---|---|
| Groundwater sampling | Generator:<br>• mechanical<br>• electrical<br>• acoustical | Generator should be in good working order. Stay clear of belts or moving parts. Be sure system is properly grounded and does not contact standing water. Wear ear protection. |
| | Pump/pipe:<br>• mechanical<br>• electrical | Operator should be trained in use of particular pump and pipe utilized. Electrical equipment should be properly grounded and kept clear of standing water. |
| | Chemical exposure:<br>• contact with contaminated groundwater or floating product<br>• volatile organics | Wear PPE as required in Section 5.3. Monitor breathing air near well casing with the proper instrument. |
| Decontamination | Exposure to decontamination solvents | Decontamination solvents will be used only in well-ventilated areas. Safety eyeglasses or face shields, proper gloves, and coveralls will be worn. |
| | Steam cleaner:<br>• mechanical<br>• electrical<br>• acoustical | Verify that equipment is in good working condition. Wear proper PPE, including splash apron or rain gear, if high pressure hot water wash is used. Avoid overspray and contact with hot metal parts. Use ear protection. Power cords should be kept clear of standing water and in good condition. |

# ATTACHMENT C

# MATERIAL SAFETY DATA SHEETS

- Benzene
- p-Chlorophenyl Methyl Sulfoxide
- 1,2-Dichloroethane
- cis-1,2-Dichloroethene
- Dioxins
- Ethylbenzene
- Gasoline
- Hexane
- Hydrochloric Acid
- Methanol
- Naphthalene
- Nitric Acid
- Polychlorinated Biphenyls (PCBs)
- Toluene
- Trichloroethene (TCE)
- 1,1,1-Trichloroethane
- Xylene

**Genium Publishing Corporation**
1145 Catalyn Street
Schenectady, NY 12303-1836 USA
(518) 377-8854

*Material Safety Data Sheets Collection:*

Sheet No. 316
Benzene

Issued: 11/78 Revision: E, 8/90

## Section 1. Material Identification 32

**Benzene ($C_6H_6$) Description:** Derived by fractional distillation of coal tar, hydrodealkylation of toluene or pyrolysis of gasoline, catalytic reforming of petroleum, and transalkylation of toluene by disproportionation reaction. Used as a fuel; a chemical reagent; a solvent for a large number of materials such as paints, plastics, rubber, inks, oils, and fats; in manufacturing phenol, ethylbenzene (for styrene monomer), nitrobenzene (for aniline), dodecylbenzene (for detergents), cyclohexane (for nylon), chlorobenzene, diphenyl, benzene hexachloride, maleic anhydride, benzene-sulfonic acid, artificial leather, linoleum, oil cloth, varnishes, and lacquers; for printing and lithography; in dry cleaning; in adhesives and coatings; for extraction and rectification; as a degreasing agent; in the tire industry; and in shoe factories. Benzene has been banned as an ingredient in products intended for household use and is no longer used in pesticides.
**Other Designations:** CAS No. 0071-43-2, benzol, carbon oil, coal naphtha, cyclohexatriene, mineral naphtha, nitration benzene, phene, phenyl hydride, pyrobenzol.
**Manufacturer:** Contact your supplier or distributor. Consult the latest *Chemicalweek Buyers' Guide*(73) for a suppliers list.

R 1
I 4
S 2*
K 4
*Skin absorption

NFPA
3 2 0 -

HMIS
H 3
F 3
R 0
PPG†
† Sec. 8

**Cautions:** Benzene is a confirmed *human carcinogen* by the IARC. *Chronic low-level exposure may cause cancer (leukemia) and bone marrow damage, with injury to blood-forming tissue.* It is also a dangerous fire hazard when exposed to heat or flame.

## Section 2. Ingredients and Occupational Exposure Limits

Benzene, ca 100%*

**1989 OSHA PELs**
(29 CFR 1910.1000, Table Z-1-A)
8-hr TWA: 1 ppm, 3 mg/m³
15-min STEL: 5 ppm, 15 mg/m³

(29 CFR 1910.1000, Table Z-2)
8-hr TWA: 10 ppm
Acceptable Ceiling Concentration: 25 ppm
Acceptable Maximum Peak: 50 ppm (10 min)†

**1989-90 ACGIH**
TLV-TWA: 10 ppm, 32 mg/m³

**1988 NIOSH RELs**
TWA: 0.1 ppm, 0.3 mg/m³
Ceiling: 1 ppm, 3 mg/m³

**1985-86 Toxicity Data‡**
Man, oral, $LD_{Lo}$: 50 mg/kg; no toxic effect noted
Man, inhalation, $TC_{Lo}$: 150 ppm inhaled intermittently over 1 yr in a number of discrete, separate doses affects the blood (other changes) and nutritional and gross metabolism (body temperature increase)
Rabbit, eye: 2 mg administered over 24 hr produces severe irritation

* OSHA 29 CFR 1910.1000, Subpart Z, states that the final benzene standard in 29 CFR 1910.1028 applies to all occupational exposures to benzene except in some subsegments of industry where exposures are consistently under the action level (i.e., distribution and sale of fuels, sealed containers and pipelines, coke production, oil and gas drilling and production, natural gas processing, and the percentage exclusion for liquid mixtures); for the excepted subsegments, the benzene limits in Table Z-2 apply.
† Acceptable maximum peak above the acceptable ceiling concentration for an 8-hr shift.
‡ See NIOSH, *RTECS* (CY1400000), for additional irritative, mutative, reproductive, tumorigenic, and toxicity data.

## Section 3. Physical Data

**Boiling Point:** 176 °F (80 °C)
**Melting Point:** 42 °F (5.5 °C)
**Vapor Pressure:** 100 mm Hg at 79 °F (26.1 °C)
**Vapor Density (Air = 1):** 2.7
**Evaporation Rate (Ether = 1):** 2.8

**Molecular Weight:** 78.11
**Specific Gravity (15 °C/4 °C):** 0.8787
**Water Solubility:** Slightly (0.180 g/100 g of $H_2O$ at 25 °C)
**% Volatile by Volume:** 100
**Viscosity:** 0.6468 mPa at 20 °C

**Appearance and Odor:** A colorless liquid with a characteristic sweet, aromatic odor. The odor recognition threshold (100% of panel) is approximately 5 ppm (unfatigued) in air. Odor *is not* an adequate warning of hazard.

## Section 4. Fire and Explosion Data

| Flash Point: 12 °F (-11.1 °C), CC | Autoignition Temperature: 928 °F (498 °C) | LEL: 1.3% v/v | UEL: 7.1% v/v |
|---|---|---|---|

**Extinguishing Media:** Use dry chemical, foam, or carbon dioxide to extinguish benzene fires. Water may be ineffective as an extinguishing agent since it can scatter and spread the fire. Use water spray to cool fire-exposed containers, flush spills away from exposures, disperse benzene vapor, and protect personnel attempting to stop an unignited benzene leak.
**Unusual Fire or Explosion Hazards:** Benzene is a Class 1B flammable liquid. A concentration exceeding 3250 ppm is considered a potential fire explosion hazard. Benzene vapor is heavier than air and can collect in low lying areas or travel to an ignition source and flash back. Explosive and flammable benzene vapor-air mixtures can easily form at room temperature. Eliminate all ignition sources where benzene is used, handled, or stored.
**Special Fire-fighting Procedures:** Isolate hazard area and deny entry. Since fire may produce toxic fumes, wear a self-contained breathing apparatus (SCBA) with a full facepiece operated in the pressure-demand or positive-pressure mode and full protective equipment. Structural firefighter's protective clothing provides limited protection. Stay out of low areas. Be aware of runoff from fire control methods. Do not release to sewers or waterways. Runoff to sewer can create pollution, fire, and explosion hazard.

## Section 5. Reactivity Data

**Stability/Polymerization:** Benzene is stable at room temperature in closed containers under normal storage and handling conditions. Hazardous polymerization cannot occur.
**Chemical Incompatibilities:** Benzene explodes on contact with diborane, permanganic acid, bromine pentafluoride, peroxodisulfuric acid, and peroxomonosulfuric acid. It ignites on contact with dioxygen difluoride, dioxygenyl tetrafluoroborate, iodine heptafluoride, and sodium peroxide + water. Benzene forms sensitive, explosive mixture with iodine pentafluoride, ozone, liquid oxygen, silver perchlorate, nitryl perchlorate, nitric acid, and arsenic pentafluoride + potassium methoxide (explodes above 30 °C). A vigorous or incandescent reaction occurs with bromine trifluoride, uranium hexafluoride, and hydrogen + Raney nickel [above 410 °F (210 °C)]. Benzene is incompatible with oxidizing materials.
**Conditions to Avoid:** Avoid heat and ignition sources.
**Hazardous Products of Decomposition:** Thermal oxidative decomposition of benzene can produce toxic gases and vapors such as carbon monoxide.

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## Section 6. Health Hazard Data

**Carcinogenicity:** The ACGIH, OSHA, and IARC list benzene as, respectively, a supected human carcinogen, a cancer hazard, and, based on sufficient human and animal evidence, a human carcinogen (Group 1).
**Summary of Risks:** Prolonged skin contact or excessive inhalation of benzene vapor may cause headache, weakness, appetite loss, and fatigue. The most important health hazards are cancer (leukemia) and bone marrow damage with injury to blood-forming tissue from chronic low-level exposure. Higher level exposures may irritate the respiratory tract and cause central nervous system (CNS) depression.
**Medical Conditions Aggravated by Long-Term Exposure:** Exposure may worsen ailments of the heart, lungs, liver, kidneys, blood, and CNS.
**Target Organs:** Blood, central nervous system, bone marrow, eyes, upper respiratory tract, and skin.
**Primary Entry Routes:** Inhalation, skin contact.
**Acute Effects:** Symptoms of acute overexposure include irritation of the eyes, nose, and respiratory tract, breathlessness, euphoria, nausea, drowsiness, headache, dizziness, and intoxication. Severe exposure may lead to convulsions and unconsciousness. Skin contact may cause a drying rash (dermatitis).
**Chronic Effects:** Long-term chronic exposure may result in many blood disorders ranging from aplastic anemia (an inability to form blood cells) to leukemia.
**FIRST AID**
**Eyes:** Gently lift the eyelids and flush immediately and continuously with flooding amounts of water until transported to an emergency medical facility. Consult a physician immediately.
**Skin:** *Quickly* remove contaminated clothing. Immediately rinse with flooding amounts of water for at least 15 min. For reddened or blistered skin, consult a physician. Wash affected area with soap and water.
**Inhalation:** Remove exposed person to fresh air. Emergency personnel should protect against inhalation exposure. Provide CPR to support breathing or circulation as necessary. Keep awake and transport to a medical facility.
**Ingestion:** Never give anything by mouth to an unconscious or convulsing person. If ingested, *do not induce vomiting* since aspiration may be fatal. Call a physician immediately.
**After first aid, get appropriate in-plant, paramedic, or community medical support.**
**Physician's Note:** Evaluate chronic exposure with a CBC, peripheral smear, and reticulocyte count for signs of myelotoxicity. Follow up any early indicators of leukemia with a bone marrow biopsy. Urinary phenol conjugates may be used for biological monitoring of recent exposure. Acute management is primarily supportive for CNS depression.

## Section 7. Spill, Leak, and Disposal Procedures

**Spill/Leak:** *Design and practice a benzene spill control and countermeasure plan (SCCP).* Notify safety personnel, evacuate all unnecessary personnel, eliminate all heat and ignition sources, and provide adequate ventilation. Cleanup personnel should protect against vapor inhalation, eye contact, and skin absorption. Absorb as much benzene as possible with an inert, noncombustible material. For large spills, dike far ahead of spill and contain liquid. Use nonsparking tools to place waste liquid or absorbent into closable containers for disposal. Keep waste out of confined spaces such as sewers, watersheds, and waterways because of explosion danger. Follow applicable OSHA regulations (29 CFR 1910.120).
**Disposal:** Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, state, and local regulations.
**EPA Designations**
Listed as a RCRA Hazardous Waste (40 CFR 261.33), Hazardous Waste No. U019
Listed as a CERCLA Hazardous Substance* (40 CFR 302.4), Reportable Quantity (RQ): 1000 lb (454 kg) [* per Clean Water Act, Sec. 307 (a), 311 (b)(4), 112; and per RCRA, Sec. 3001]
SARA Extremely Hazardous Substance (40 CFR 355): Not listed
Listed as SARA Toxic Chemical (40 CFR 372.65)
**OSHA Designations**
Listed as an Air Contaminant (29 CFR 1910.1000, Tables Z-1-A and Z-2)

## Section 8. Special Protection Data

**Goggles:** Wear protective eyeglasses or chemical safety goggles, per OSHA eye- and face-protection regulations (29 CFR 1910.133).
**Respirator:** Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a NIOSH-approved respirator. For emergency or nonroutine operations (cleaning spills, reactor vessels, or storage tanks), wear an SCBA. *Warning! Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.*
**Other:** Wear impervious gloves, boots, aprons, and gauntlets to prevent skin contact.
**Ventilation:** Provide general and local explosion-proof ventilation systems to maintain airborne concentrations at least below the OSHA PELs (Sec. 2). Local exhaust ventilation is preferred since it prevents contaminant dispersion into the work area by controlling it at its source.[103]
**Safety Stations:** Make available in the work area emergency eyewash stations, safety/quick-drench showers, and washing facilities.
**Contaminated Equipment:** Never wear contact lenses in the work area: soft lenses may absorb, and all lenses concentrate, irritants. Remove this material from your shoes and equipment. Launder contaminated clothing before wearing.
**Comments:** Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

## Section 9. Special Precautions and Comments

**Storage Requirements:** Store in tightly closed containers in a cool, dry, well-ventilated area away from all heat and ignition sources and incompatible materials. *Caution! Benzene vapor may form explosive mixtures in air.* To prevent static sparks, electrically ground and bond all containers and equipment used in shipping, receiving, or transferring operations in production and storage areas. When opening or closing benzene containers, use nonsparking tools. Keep fire extinguishers readily available.
**Engineering Controls:** Because OSHA specifically regulates benzene (29 CFR 1910.1028), educate workers about its potential hazards and dangers. Minimize all possible exposures to carcinogens. If possible, substitute less toxic solvents for benzene; use this material with extreme caution and only if absolutely essential. Avoid vapor inhalation and skin and eye contact. Use only with adequate ventilation and appropriate personal protective gear. Institute a respiratory protection program that includes regular training, maintenance, inspection, and evaluation. Designate regulated areas of benzene use (see legend in the box below) and label benzene containers with "DANGER, CONTAINS BENZENE, CANCER HAZARD."
**Other Precautions:** Provide preplacement and periodic medical examinations with emphasis on a history of blood disease or previous exposure.

**Transportation Data (49 CFR 172.101, .102)**

| | |
|---|---|
| **DOT Shipping Name:** Benzene (*benzol*) | **IMO Shipping Name:** Benzene |
| **DOT Hazard Class:** Flammable liquid | **IMO Hazard Class:** 3.2 |
| **ID No.:** UN1114 | **ID No.:** UN1114 |
| **DOT Label:** Flammable liquid | **IMO Label:** Flammable liquid |
| **DOT Packaging Exceptions:** 173.118 | **IMDG Packaging Group:** II |
| **DOT Packaging Requirements:** 173.119 | |

DANGER
BENZENE
CANCER HAZARD
FLAMMABLE-NO SMOKING
AUTHORIZED PERSONNEL ONLY
RESPIRATOR REQUIRED

*MSDS Collection* References: 1, 2, 12, 26, 73, 84-94, 100, 101, 103, 109, 124, 126, 127, 132, 134, 136, 138, 139, 143
Prepared by: MJ Allison, BS; Industrial Hygiene Review: DJ Wilson, CIH; Medical Review: MJ Upfal, MD, MPH; Edited by: JR Stuart, MS

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12/30/94 ** MSDS SUBSTANCE SELECTION SUMMARY ** 15:45:01

SEARCH= OHS04816

01 SUMMARY ITEMS FOUND IN MSDS SEARCH
01 NAME=PARA-CHLOROPHENYL METHYL SULFOXIDE
SYNM=BENZENE, 1-CHLORO-4-(METHYLSULFINYL)-
SYNM=CHLOROPHENYL METHYL SULFOXIDE
SYNM=C7H7CLOS
SYNM=METHYL-4-CHLOROPHENYL SULFOXIDE
SYNM=P-CHLOROPHENYL METHYL SULFOXIDE
SYNM=SULFOXIDE, P-CHLOROPHENYL METHYL-
SYNM=1-CHLORO-4-(METHYLSULFINYL)BENZENE
OHS=OHS04816 CAS=934-73-6 EPA= RTEC=WS2670000
* MSDS SUMMARY SHEET IS ALSO AVAILABLE *

**********

MSDS PRICING: THERE WILL BE A $75.00 REPORT CHARGE PER MSDS.

**********

DO YOU WISH TO PRINT THE REPORT YES OR NO ?

=> ENTER YES TO PRINT MSDS, OR
=> ENTER NO TO BYPASS PRINT, OR
=> ENTER SEARCH (FOR NEW SEARCH TYPE), OR
=> ENTER QUIT, HELP, OR LOGOFF
yes

OHS04816 PAGE 01 OF 05

MATERIAL SAFETY DATA SHEET

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MDL INFORMATION SYSTEMS, INC.
14600 CATALINA STREET
SAN LEANDRO, CA 94577
1-800-635-0064 OR
1-510-895-1313

FOR EMERGENCY SOURCE INFORMATION
CONTACT: 1-615-366-2000 USA

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SUBSTANCE IDENTIFICATION

CAS NUMBER: 934-73-6
RTECS NUMBER: WS2670000

SUBSTANCE: PARA-CHLOROPHENYL METHYL SULFOXIDE

TRADE NAMES/SYNONYMS:
BENZENE, 1-CHLORO-4-(METHYLSULFINYL)-; 1-CHLORO-4-(METHYLSULFINYL)BENZENE; SULFOXIDE, P-CHLOROPHENYL METHYL-; P-CHLOROPHENYL METHYL SULFOXIDE; METHYL-4-CHLOROPHENYL SULFOXIDE; CHLOROPHENYL METHYL SULFOXIDE; C7H7CLOS; OHS04816

CHEMICAL FAMILY:
HALOGEN COMPOUND, AROMATIC

SULFOXIDE

MOLECULAR FORMULA: CL-C6-H4-S-(O)-C-H3

MOLECULAR WEIGHT: 174.65

CERCLA RATINGS (SCALE 0-3): HEALTH=3 FIRE=1 REACTIVITY=0 PERSISTENCE=2
NFPA RATINGS (SCALE 0-4): HEALTH=3 FIRE=1 REACTIVITY=0

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## COMPONENTS AND CONTAMINANTS

COMPONENT: PARA-CHLOROPHENYL METHYL SULFOXIDE PERCENT: 100.0
CAS# 934-73-6

OTHER CONTAMINANTS: NONE

EXPOSURE LIMITS:
NO OCCUPATIONAL EXPOSURE LIMITS ESTABLISHED BY OSHA, ACGIH, OR NIOSH.

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## PHYSICAL DATA

DESCRIPTION: SOLID. BOILING POINT: 288-291 F (142-144 C) @ 6 MMHG

MELTING POINT: 115-118 F (46-48 C) SPECIFIC GRAVITY: NOT AVAILABLE

SOLUBILITY IN WATER: NOT AVAILABLE

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## FIRE AND EXPLOSION DATA

FIRE AND EXPLOSION HAZARD:
SLIGHT FIRE HAZARD WHEN EXPOSED TO HEAT OR FLAME.



FIREFIGHTING MEDIA:
DRY CHEMICAL, CARBON DIOXIDE, WATER SPRAY OR REGULAR FOAM
(1993 EMERGENCY RESPONSE GUIDEBOOK, RSPA P 5800.6).

FOR LARGER FIRES, USE WATER SPRAY, FOG OR REGULAR FOAM
(1993 EMERGENCY RESPONSE GUIDEBOOK, RSPA P 5800.6).

FIREFIGHTING:
MOVE CONTAINER FROM FIRE AREA IF YOU CAN DO IT WITHOUT RISK. DO NOT SCATTER SPILLED MATERIAL WITH HIGH-PRESSURE WATER STREAMS. DIKE FIRE-CONTROL WATER FOR LATER DISPOSAL (1993 EMERGENCY RESPONSE GUIDEBOOK, RSPA P 5800.6, GUIDE PAGE 31).

USE AGENTS SUITABLE FOR TYPE OF SURROUNDING FIRE. AVOID BREATHING HAZARDOUS VAPORS, KEEP UPWIND.

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## TOXICITY

PARA-CHLOROPHENYL METHYL SULFOXIDE:
IRRITATION DATA: 500 MG/24 HOURS SKIN-RABBIT SEVERE; 100 MG EYE-RABBIT SEVERE.
TOXICITY DATA: 463 MG/KG ORAL-RAT LD50; 400 MG/KG ORAL-MOUSE LD50; 5600 MG/KG/28 DAYS CONTINUOUS ORAL-RAT TDLO; 3413 MG/KG/91 DAYS CONTINUOUS

ORAL-RAT TDLO; 6825 MG/KG/91 DAYS CONTINUOUS ORAL-MOUSE TDLO; 280 MG/KG/14 DAYS CONTINUOUS ORAL-MONKEY TDLO.
CARCINOGEN STATUS: NONE.
LOCAL EFFECTS: CORROSIVE- EYE.
ACUTE TOXICITY LEVEL: TOXIC BY INGESTION.
TARGET EFFECTS: NO DATA AVAILABLE.

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## HEALTH EFFECTS AND FIRST AID

INHALATION:
PARA-CHLOROPHENYL METHYL SULFOXIDE:
ACUTE EXPOSURE- NO SPECIFIC DATA AVAILABLE. SOME AROMATIC HALOGENATED HYDROCARBONS MAY BE IRRITATING TO THE MUCOUS MEMBRANES.
CHRONIC EXPOSURE- NO DATA AVAILABLE.

FIRST AID- REMOVE FROM EXPOSURE AREA TO FRESH AIR IMMEDIATELY. PERFORM ARTIFICIAL RESPIRATION IF NECESSARY. KEEP PERSON WARM AND AT REST. TREAT SYMPTOMATICALLY AND SUPPORTIVELY. GET MEDICAL ATTENTION IMMEDIATELY.

SKIN CONTACT:
PARA-CHLOROPHENYL METHYL SULFOXIDE:
ACUTE EXPOSURE- MAY CAUSE MILD TO SEVERE SKIN IRRITATION WITH EDEMA, ESCHAR FORMATION AND BROWN DISCOLORATION. SKIN APPLICATION OF 5630 MG/KG TO RATS FOR 24 HOURS RESULTED IN AN IMMEDIATE DECREASE OF MOTOR ACTIVITY, FOLLOWED BY LOSS OF COORDINATION, PROSTRATION, LOSS OF CONSCIOUSNESS, LABORED RESPIRATION AND GRADUAL RECOVERY OVER A 5 DAY PERIOD. SEVERE LACRIMATION AND DIARRHEA WERE ALSO REPORTED. SKIN APPLICATION OF 2190 MG/KG CAUSED THE SAME SYMPTOMS BUT LESS SEVERE WITH RECOVERY WITHIN 24 HOURS.
CHRONIC EXPOSURE- NO DATA AVAILABLE.

FIRST AID- REMOVE CONTAMINATED CLOTHING AND SHOES IMMEDIATELY. WASH WITH



SOAP OR MILD DETERGENT AND LARGE AMOUNTS OF WATER UNTIL NO EVIDENCE OF CHEMICAL REMAINS (AT LEAST 15-20 MINUTES). GET MEDICAL ATTENTION IMMEDIATELY.

EYE CONTACT:
PARA-CHLOROPHENYL METHYL SULFOXIDE:
CORROSIVE.
ACUTE EXPOSURE- APPLICATION TO RABBIT EYES CAUSED INJURY TO THE IRIS AND CONJUNCTIVA AND IRREVERSIBLE CORNEAL LESIONS AND OPACITIES.
CHRONIC EXPOSURE- EFFECTS DEPEND ON CONCENTRATION AND DURATION OF EXPOSURE. REPEATED OR PROLONGED CONTACT WITH CORROSIVE SUBSTANCES MAY RESULT IN CONJUNCTIVITIS OR EFFECTS AS IN ACUTE EXPOSURE.

FIRST AID- WASH EYES IMMEDIATELY WITH LARGE AMOUNTS OF WATER, OCCASIONALLY LIFTING UPPER AND LOWER LIDS, UNTIL NO EVIDENCE OF CHEMICAL REMAINS (AT LEAST 15-20 MINUTES). CONTINUE IRRIGATING WITH NORMAL SALINE UNTIL THE PH HAS RETURNED TO NORMAL (30-60 MINUTES). COVER WITH STERILE BANDAGES. GET MEDICAL ATTENTION IMMEDIATELY.

INGESTION:
PARA-CHLOROPHENYL METHYL SULFOXIDE:
TOXIC.
ACUTE EXPOSURE- A SINGLE DOSE CAUSED LACRIMATION, LOSS OF COORDINATION, PROSTRATION, LOSS OF CONSCIOUSNESS, LABORED RESPIRATION AND DEATH IN

RODENTS.
CHRONIC EXPOSURE- ADMINISTRATION TO RODENTS FOR 28 DAYS RESULTED IN SYMPTOMS IDENTICAL TO THAT OBSERVED IN ANIMALS FOLLOWING ACUTE TREATMENT. ADMINISTRATION FOR 91 DAYS PRODUCED EMACIATION, DIARRHEA, DEPRESSED WEIGHT GAIN, OCULAR AND NASAL DISCHARGE, DEPRESSION IN HEMOGLOBIN AND HEMATOCRIT LEVELS, AND AN INCREASE IN BUN VALUES. PATHOLOGIC EFFECTS INCLUDED LESIONS OF THE LIVER AND LUNG AND HEPATIC MEGALOCYTOSIS. THE SYMPTOMS IN RHESUS MONKEYS TREATED ORALLY FOR 14 DAYS WITH 10 MG/KG INCLUDED ANOREXIA, EMESIS, HYPOTHERMIA, AND DEPRESSION WITH LETHARGY. PATHOLOGIC EFFECTS INCLUDED LESIONS OF THE LYMPHOID SYSTEM, THYROID, GASTROINTESTINAL TRACT, KIDNEYS, LIVER, AND ADRENAL GLANDS.

FIRST AID- IF VOMITING OCCURS, KEEP HEAD LOWER THAN HIPS TO HELP PREVENT ASPIRATION. TREAT SYMPTOMATICALLY AND SUPPORTIVELY. GET MEDICAL ATTENTION IF NEEDED.

ANTIDOTE:
NO SPECIFIC ANTIDOTE. TREAT SYMPTOMATICALLY AND SUPPORTIVELY.

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## REACTIVITY

REACTIVITY:
STABLE UNDER NORMAL TEMPERATURES AND PRESSURES.

INCOMPATIBILITIES:
PARA-CHLOROPHENYL METHYL SULFOXIDE:
OXIDIZERS (STRONG): FIRE AND EXPLOSION HAZARD.

DECOMPOSITION:
THERMAL DECOMPOSITION PRODUCTS MAY INCLUDE TOXIC OXIDES OF SULFUR AND TOXIC AND CORROSIVE FUMES OF CHLORIDES.



POLYMERIZATION:
HAZARDOUS POLYMERIZATION HAS NOT BEEN REPORTED TO OCCUR UNDER NORMAL TEMPERATURES AND PRESSURES.

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## STORAGE AND DISPOSAL

OBSERVE ALL FEDERAL, STATE AND LOCAL REGULATIONS WHEN STORING OR DISPOSING OF THIS SUBSTANCE.

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## CONDITIONS TO AVOID

MAY BURN BUT DOES NOT IGNITE READILY. AVOID CONTACT WITH STRONG OXIDIZERS, EXCESSIVE HEAT, SPARKS, OR OPEN FLAME.

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## SPILL AND LEAK PROCEDURES

OCCUPATIONAL SPILL:
SWEEP UP AND PLACE IN SUITABLE CLEAN, DRY CONTAINERS FOR RECLAMATION OR LATER DISPOSAL. DO NOT FLUSH SPILLED MATERIAL INTO SEWER. KEEP UNNECESSARY PEOPLE AWAY.

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## PROTECTIVE EQUIPMENT

VENTILATION:
PROVIDE LOCAL EXHAUST VENTILATION. VENTILATION EQUIPMENT SHOULD BE EXPLOSION-PROOF IF EXPLOSIVE CONCENTRATIONS OF DUST, VAPOR OR FUME ARE PRESENT.

RESPIRATOR:
THE FOLLOWING RESPIRATORS ARE RECOMMENDED BASED ON INFORMATION FOUND IN THE PHYSICAL DATA, TOXICITY AND HEALTH EFFECTS SECTIONS. THEY ARE RANKED IN ORDER FROM MINIMUM TO MAXIMUM RESPIRATORY PROTECTION.
THE SPECIFIC RESPIRATOR SELECTED MUST BE BASED ON CONTAMINATION LEVELS FOUND IN THE WORK PLACE, MUST BE BASED ON THE SPECIFIC OPERATION, MUST NOT EXCEED THE WORKING LIMITS OF THE RESPIRATOR AND MUST BE JOINTLY APPROVED BY THE NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH AND THE MINE SAFETY AND HEALTH ADMINISTRATION (NIOSH-MSHA).

ANY DUST AND MIST RESPIRATOR WITH A FULL FACEPIECE.

ANY AIR-PURIFYING FULL FACEPIECE RESPIRATOR WITH A HIGH-EFFICIENCY PARTICULATE FILTER.

ANY POWERED AIR-PURIFYING RESPIRATOR WITH A TIGHT-FITTING FACEPIECE AND HIGH-EFFICIENCY PARTICULATE FILTER.

ANY TYPE 'C' SUPPLIED-AIR RESPIRATOR WITH A FULL FACEPIECE OPERATED IN PRESSURE-DEMAND OR OTHER POSITIVE PRESSURE MODE OR WITH A FULL FACEPIECE, HELMET OR HOOD OPERATED IN CONTINUOUS-FLOW MODE.

ANY SELF-CONTAINED BREATHING APPARATUS WITH A FULL FACEPIECE OPERATED IN PRESSURE-DEMAND OR OTHER POSITIVE PRESSURE MODE.



FOR FIREFIGHTING AND OTHER IMMEDIATELY DANGEROUS TO LIFE OR HEALTH CONDITIONS:

ANY SELF-CONTAINED BREATHING APPARATUS THAT HAS A FULL FACEPIECE AND IS OPERATED IN A PRESSURE-DEMAND OR OTHER POSITIVE-PRESSURE MODE.

ANY SUPPLIED-AIR RESPIRATOR THAT HAS A FULL FACEPIECE AND IS OPERATED IN A PRESSURE-DEMAND OR OTHER POSITIVE-PRESSURE MODE IN COMBINATION WITH AN AUXILIARY SELF-CONTAINED BREATHING APPARATUS OPERATED IN PRESSURE-DEMAND OR OTHER POSITIVE-PRESSURE MODE.

CLOTHING:
EMPLOYEE MUST WEAR APPROPRIATE PROTECTIVE (IMPERVIOUS) CLOTHING AND EQUIPMENT TO PREVENT REPEATED OR PROLONGED SKIN CONTACT WITH THIS SUBSTANCE.

GLOVES:
EMPLOYEE MUST WEAR APPROPRIATE PROTECTIVE GLOVES TO PREVENT CONTACT WITH THIS SUBSTANCE.

EYE PROTECTION:
EMPLOYEE MUST WEAR SPLASH-PROOF OR DUST-RESISTANT SAFETY GOGGLES AND A FACESHIELD TO PREVENT CONTACT WITH THIS SUBSTANCE.

EMERGENCY WASH FACILITIES:
WHERE THERE IS ANY POSSIBILITY THAT AN EMPLOYEE'S EYES AND/OR SKIN MAY BE EXPOSED TO THIS SUBSTANCE, THE EMPLOYER SHOULD PROVIDE AN EYE WASH FOUNTAIN AND QUICK DRENCH SHOWER WITHIN THE IMMEDIATE WORK AREA FOR EMERGENCY USE.

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CREATION DATE: 06/02/89 REVISION DATE: 08/25/94

SUBSTANCE: PARA-CHLOROPHENYL METHYL SULFOXIDE

CAS#: 934-73-6 FORMULA: CL-C6-H4-S-(O)-C-H3

DESCRIPTION: SOLID.

EXPOSURE LIMITS:
NO EXPOSURE LIMITS ESTABLISHED BY OSHA OR ACGIH.

FIRE AND EXPLOSION HAZARDS:
SLIGHT FIRE HAZARD. DO NOT SMOKE WHEN USING THIS PRODUCT OR HANDLE NEAR AN OPEN FLAME OR SPARKS. IF IT CATCHES FIRE, DO NOT TRY TO STOP THE FIRE YOURSELF. SEEK THE HELP OF FIREFIGHTING PERSONNEL.
FOR SMALL FIRES: USE DRY CHEMICAL, CARBON DIOXIDE, WATER SPRAY OR REGULAR FOAM.
FOR LARGE FIRES: USE WATER SPRAY, FOG OR REGULAR FOAM.

HEALTH AND FIRST AID:
INHALATION:
SHORT TERM EFFECTS: MAY CAUSE IRRITATION.
LONG TERM EFFECTS: NO INFORMATION IS AVAILABLE.
SKIN CONTACT:
SHORT TERM EFFECTS: MAY CAUSE BROWN STAINS, TEARING, DIARRHEA, WEAKNESS AND UNCONSCIOUSNESS.
LONG TERM EFFECTS: NO INFORMATION IS AVAILABLE.
EYE CONTACT:
SHORT TERM EFFECTS: MAY CAUSE BURNS.
LONG TERM EFFECTS: SAME EFFECTS AS SHORT TERM EXPOSURE.
INGESTION:
SHORT TERM EFFECTS: MAY CAUSE TEARING, WEAKNESS AND UNCONSCIOUSNESS.
LONG TERM EFFECTS: IN ADDITION TO EFFECTS FROM SHORT TERM EXPOSURE, LOW BODY TEMPERATURE, LACK OF APPETITE, WEIGHT LOSS, VOMITING AND DIARRHEA MAY OCCUR.
FIRST AID: REMOVE FROM EXPOSURE AREA. IF BREATHING HAS STOPPED, PERFORM ARTIFICIAL RESPIRATION OR CPR. FLUSH SKIN/EYES WITH WATER FOR 15 MINUTES. IF VOMITING OCCURS, KEEP HEAD BELOW HIPS TO PREVENT ASPIRATION. GET MEDICAL ATTENTION IMMEDIATELY. SEE MSDS FOR FURTHER RECOMMENDATIONS.

REACTIVITY:
STABLE UNDER NORMAL CONDITIONS. MAY REACT DANGEROUSLY WITH OXIDIZERS.

SPILL AND LEAK:
DO NOT TOUCH SPILLED MATERIAL. STOP LEAK IF YOU CAN DO IT WITHOUT RISK. FOR SMALL SPILLS, TAKE UP WITH SAND OR OTHER ABSORBENT MATERIAL AND PLACE INTO CONTAINERS FOR LATER DISPOSAL. FOR SMALL DRY SPILLS, WITH A CLEAN SHOVEL PLACE MATERIAL INTO CLEAN, DRY CONTAINER AND COVER. MOVE CONTAINERS FROM SPILL AREA. FOR LARGER SPILLS, DIKE FAR AHEAD OF SPILL FOR LATER DISPOSAL. KEEP UNNECESSARY PEOPLE AWAY. ISOLATE HAZARD AREA AND DENY ENTRY.

SAFETY STEPS AND PROTECTIVE EQUIPMENT:
YOU SHOULD WEAR PROTECTIVE CLOTHING, GLOVES AND SAFETY GOGGLES. A RESPIRATOR MAY BE NEEDED WHEN WORKING IN HIGH OR UNKNOWN CONCENTRATIONS. SEE MSDS FOR RECOMMENDATIONS. IF AN ACCIDENT OCCURS, CONTACT SAFETY PERSONNEL.

# Material Safety Data Sheet

From Genium's Reference Collection
Genium Publishing Corporation
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GENIUM PUBLISHING CORP.

No. 359
ETHYLENE DICHLORIDE
(Formerly 1,2-Dichloroethane)
(Revision C)
Issued: November 1978
Revised: August 1987

## SECTION 1. MATERIAL IDENTIFICATION

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CHEMICAL NAME: ETHYLENE DICHLORIDE (Changed to reflect common industrial practice)
DESCRIPTION (Origin/Uses): Made from acetylene and HCl. Used as a degreaser, a scavenger in leaded gasoline, as an intermediate in the manufacture of vinyl chloride, in paint removers, in wetting and penetration agents, in ore flotation processes, as a fumigant, and as a solvent for fats, oils, waxes, and gums.
OTHER DESIGNATIONS: 1,2-Dichloroethane; *sym*-Dichloroethane; Dutch Liquid; Dutch Oil; EDC; Ethane Dichloride; Ethylene Chloride; 1,2-Ethylene Dichloride; Glycol Dichloride; $C_2H_4Cl_2$; NIOSH *RTECS* KI0525000; CAS #0107-06-2
MANUFACTURERS/SUPPLIERS: Available from several suppliers, including: Dow Chemical USA, 2020 Dow Center, Midland, MI 48640; Telephone: (517) 636-1000

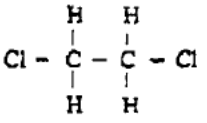
COMMENTS: Ethylene dichloride is a flammable, toxic liquid.

| HMIS | | | |
|---|---|---|---|
| H | 1 | R | 1 |
| F | 3 | I | 4 |
| R | 0 | S | 2 |
| PPE* | | K | 4 |

* See Sect. 8

## SECTION 2. INGREDIENTS AND HAZARDS

| | % | HAZARD DATA |
|---|---|---|
| Ethylene Dichloride, CAS #0107-06-2; NIOSH *RTECS* #KI0525000 | 100 | ACGIH Values 1987-88<br>TLV-TWA: 10 ppm, 40 mg/m$^3$<br>OSHA PEL* 1986-87<br>8-Hr TWA: 50 ppm;<br>Ceiling: 100 ppm (15 Min.)<br>NIOSH REL 1986-87<br>10-Hr TWA: 1 ppm<br>Ceiling: 2 ppm (15 Min.)<br>Toxicity Data<br>Man, Inhalation, $TC_{Lo}$: 4000 ppm/1 Hr<br>Human, Oral, $TD_{Lo}$: 428 mg/kg<br>Man, Oral, $TD_{Lo}$: 892 mg/kg<br>Man, Oral, $LD_{Lo}$: 714 mg/kg<br>Rat, Oral, $LD_{50}$: 670 mg/kg |



*The maximum allowable peak concentration (above the ceiling level value) of ethylene dichloride is 200 ppm for 5 minutes in any 3-hour period.
COMMENTS: Additional data concerning toxic doses and tumorigenic, reproductive, and mutagenic effects is listed (with references) in the NIOSH *RTECS* 1983-84 supplement, pages 865-66.

## SECTION 3. PHYSICAL DATA

Boiling Point ... 182.3°F (83.5°C)
Vapor Pressure ... 87 Torr at 77°F (25°C)
Water Solubility ... Soluble in about 120 Parts Water
Vapor Density (Air = 1) ... 3.4
Evaporation Rate (n-BuAc = 1) ... Not Listed
Specific Gravity ... 1.2569 at 69°F (20°C)
Freezing Point ... -31.9°F (-35.5°C)
Molecular Weight ... 98.96 Grams/Mole

Appearance and odor: Colorless, clear liquid. Sweet, chloroformlike odor is typical of chlorinated hydrocarbons. The recognition threshold (100% of test panel) for ethylene dichloride is 40 ppm. Odor detection probably indicates an excessive exposure to vapor. High volatility and flammability, coupled with its toxicity and carcinogenic potential, make this material a major health hazard.
COMMENTS: Ethylene dichloride is miscible with alcohol, chloroform, and ether.

## SECTION 4. FIRE AND EXPLOSION DATA

| Flash Point and Method | Autoignition Temperature | Flammability Limits in Air | LOWER | UPPER |
|---|---|---|---|---|
| See Below | 775°F (413°C) | % by Volume | 6.2 | 15.9 |

EXTINGUISHING MEDIA: Use chemical, carbon dioxide, alcohol foam, water spray/fog, or dry sand to fight fires involving ethylene dichloride. Direct water sprays may be ineffective extinguishing agents, but they may be successfully used to cool fire-exposed containers. Use a smothering effect to extinguish fires involving this material. UNUSUAL FIRE/EXPLOSION HAZARDS: Ethylene dichloride is a dangerous fire and explosion hazard when exposed to sources of ignition such as heat, open flames, sparks, etc. Its vapors are heavier than air and can flow along surfaces to distant, low-lying sources of ignition and flash back. If it is safe to do so, remove this material from the fire area. Ethylene dichloride burns with a smoky flame.
SPECIAL FIRE-FIGHTING PROCEDURES: Wear a self-contained breathing apparatus with a full facepiece operated in a pressure-demand or another positive-pressure mode.
COMMENTS: Flash Point and Method: 56°F (13°C) CC; 65°F (18°C) OC.
OSHA Flammability Class (29 CFR 1910.106): IB. DOT Flammability Class (49 CFR 173.115): Flammable Liquid

## SECTION 5. REACTIVITY DATA

Ethylene dichloride is stable. Hazardous polymerization cannot occur.

CHEMICAL INCOMPATIBILITIES include strong oxidizing agents. Explosions have occurred with mixtures of this material and liquid ammonia or dimethylaminopropylamine. Finely divided aluminum or magnesium metal may be hazardous in contact with ethylene dichloride.
CONDITIONS TO AVOID: Eliminate sources of ignition such as excessive heat, open flames, or electrical sparks, particularly in low-lying areas, because the explosive, heavier-than-air vapors will concentrate there.
PRODUCTS OF HAZARDOUS DECOMPOSITION can include vinyl chloride, chloride fumes, and phosgene. Phosgene is an extremely poisonous gas. Products of thermal-oxidative degradation (i.e., fire conditions) must be treated with appropriate caution.

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## SECTION 6. HEALTH HAZARD INFORMATION

Ethylene dichloride is listed as an anticipated human carcinogen by the NTP and as a probable human carcinogen (Group 2B), by the IARC. It was found to be an animal-positive carcinogen by the IARC. NCI reported positive results (mouse, rat) from its carcinogenesis bioassay. SUMMARY OF RISKS: Ethylene dichloride is considered to be one of the more toxic of the common chlorinated hydrocarbons. Deaths from accidental ingestion of this material have been reported. Inhalation of vapors reportedly caused three fatalities. Excessive inhalation of ethylene dichloride vapors can cause respiratory irritation, intoxication, narcotic and anesthetic effects, vomiting, dizziness, depression, and diarrhea. The hepatoxic (injurious to liver) effects of this material are significant. The systemic effects from overexposure can appear in the liver, kidneys, digestive tract, blood, lungs, adrenal glands, and the central nervous system. Tests on animals have revealed reproductive failure and fetal resorption. There may be increased risk to nursing infants of exposed mothers. TARGET ORGANS: Central nervous system, eyes, kidneys, liver, heart, adrenal glands, and skin. PRIMARY ENTRY: Inhalation, absorption through skin, oral, or eye contact. ACUTE EFFECTS: Skin contact causes irritation, defatting, and, if repeated or prolonged, burning. Eye contact causes irritation and serious injury (clouding of the cornea) if it is not removed promptly. CHRONIC EFFECTS: Injuries to the liver (hepatoxicity) and kidneys, weight loss, low blood pressure, jaundice, oliguria (reduced excretion of urine), or anemia. MEDICAL CONDITIONS AGGRAVATED BY LONG-TERM EXPOSURE: Persons taking anticoagulants could experience an increase in tendency to bleed. Persons taking insulin face an increased risk of lowered blood sugar. FIRST AID: Be prepared to restrain a hyperactive victim. EYE CONTACT: Flush eyes, including under the eyelids, gently but thoroughly with plenty of running water for at least 15 minutes. Get medical help.* SKIN CONTACT: Immediately flush the affected area with water. Wash thoroughly with soap and water. Remove and launder contaminated clothing before wearing it again; clean material from shoes and equipment. Get medical help.* INHALATION: Remove victim to fresh air; restore and/or support his breathing as needed. Get medical help.* INGESTION: Never give anything by mouth to someone who is unconscious or convulsing. Rinse victim's mouth with water. Oxygen and artificial respiration may be needed. Get medical help.* * GET MEDICAL ASSISTANCE = IN PLANT, PARAMEDIC, COMMUNITY. Get prompt medical assistance for further treatment, observation, and support after first aid.

## SECTION 7. SPILL, LEAK, AND DISPOSAL PROCEDURES

SPILL/LEAK: Before using ethylene dichloride, it is essential that proper emergency procedures be established and made known to all personnel involved in handling it. Notify safety personnel of ethylene dichloride spills or leaks and implement containment procedures. Remove and eliminate all possible sources of ignition such as heat, sparks, and open flames from the area. Cleanup personnel should use protection against inhalation of vapors and contact with liquid. Contain spills by using an absorbent material such as dry sand or vermiculite. Use nonsparking tools to mix waste material thoroughly with absorbent and place it in an appropriate container for disposal. Flush trace residues with large amounts of water. Do not flush waste to sewers or open waterways. WASTE DISPOSAL: Consider reclamation, recycling, or destruction rather than disposal in a landfill. Waste may be burned in an approved incinerator equipped with an afterburner and a scrubber. Follow Federal, state, and local regulations.

Ethylene dichloride is designated as a hazardous substance by the EPA (40 CFR 116.4). Ethylene dichloride is reported in the 1983 EPA TSCA Inventory.

EPA Hazardous Waste Number (40 CFR 261.33): U077

EPA Reportable Quantity (40 CFR 117.3): 5000 lbs (2270 kgs)

Aquatic Toxicity Rating, TLm 96: 1000 - 100 ppm

## SECTION 8. SPECIAL PROTECTION INFORMATION

GOGGLES: Always wear protective eyeglasses or chemical safety goggles. Ethylene dichloride is particularly harmful to the eyes, and direct contact results in corneal opacity (permanent clouding of the eye). GLOVES: Wear impervious rubber gloves to prevent skin contact. RESPIRATOR: Use a NIOSH-approved respirator per the NIOSH *Pocket Guide to Chemical Hazards* (Genium ref. 88) for the maximum-use concentrations and/or the exposure limits cited in section 2. Follow the respirator guidelines in 29 CFR 1910.134. Any detectable concentration of ethylene dichloride requires an SCBA, full facepiece, and pressure-demand/positive-pressure modes. Warning: Air-purifying respirators will not protect workers from oxygen-deficient atmospheres. OTHER: Wear rubber boots, aprons, and other protective clothing suitable for use conditions to prevent skin contact. Remove contaminated clothing and launder it before wearing it again. Discard contaminated shoes. VENTILATION: Provide maximum explosion-proof local fume exhaust ventilation systems to maintain the airborne concentrations of ethylene dichloride vapors below the exposure limits cited in section 2. Install properly designed hoods that maintain a minimum face velocity of 100 lfm (linear feet per minute). SAFETY STATIONS: Make eyewash stations, washing facilities, and safety showers available in areas of use and handling. SPECIAL CONSIDERATIONS: Vapors are heavier than air and will collect in low-lying areas. Eliminate sources of ignition in these areas and again provide good ventilation there. COMMENTS: Practice good personal hygiene. Keep materials off of your clothes and equipment. Avoid transferring this material from hands to mouth while eating, drinking, or smoking. Immediately remove ethylene dichloride-saturated clothing to avoid flammability and health hazards. Contact lenses pose a special hazard; soft lenses may absorb irritants, and all lenses concentrate them.

## SECTION 9. SPECIAL PRECAUTIONS AND COMMENTS

STORAGE SEGREGATION: Store ethylene dichloride in tightly closed containers in a cool, dry, well-ventilated area away from sources of ignition. Protect containers from physical damage and from exposure to excessive heat. Avoid direct physical contact with strong acids, bases, oxidizing agents, and reducing agents. SPECIAL HANDLING/STORAGE: Use nonsparking tools. Outside or detached storage is preferred. Store and handle ethylene dichloride in accordance with the regulations concerning OSHA class IB flammable liquids. ENGINEERING CONTROLS: During transfer operations involving ethylene dichloride, the liquid and its vapors must not be exposed to nearby sources of ignition from engineering systems that are not explosion proof. Preplan emergency response procedures.

TRANSPORTATION DATA (per 49 CFR 172.101-2):

DOT Hazard Class: Flammable Liquid

DOT Label: Flammable Liquid

IMO Class: 3.2

DOT Shipping Name: Ethylene Dichloride

DOT ID No. UN 1184

IMO Label: Flammable Liquid, Poison

References: 1-9, 12, 19, 21, 26, 43, 47, 73, 87-102. CK

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Approvals J.O. Recroccio

Indust. Hygiene/Safety DW 11-18-87

Medical Review [illegible] 11-30-87

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***Material Safety Data Sheets Collection:***

**Sheet No. 703**
**1,2-Dichloroethylene**

Issued: 4/90

## Section 1. Material Identification

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**1,2-Dichloroethylene Description:** An industrial solvent composed of 60% cis- and 40% trans-isomers. Both isomers, cis and trans, are made by partial chlorination of acetylene. Used as a general solvent for organic materials, lacquers, dye extraction, thermoplastics, organic synthesis, and perfumes. The trans-isomer is more widely used in industry than either the cis-isomer or the mixture. Toxicity also varies between the two isomers.

**Other Designations:** CAS No. 0540-59-0; $C_2H_2Cl_2$; acetylene dichloride; *cis*-1,2-dichloroethylene; *sym*-dichloroethylene; *trans*-1,2-dichloroethylene, dioform.

| | |
|---|---|
| R | 1 |
| I | 2 |
| S | 2 |
| K | 1 |

NFPA

HMIS
F 3
R 1
PPG*
* See 8

## Section 2. Ingredients and Occupational Exposure Limits

1,2-Dichloroethylene, ca 100%

**OSHA PEL**
8-hr TWA: 790 mg/m³, 200 ppm

**ACGIH TLV, 1989-90**
TLV-TWA: 790 mg/m³, 200 ppm

**NIOSH REL, 1987**
790 mg/m³, 200 ppm

**Toxicity Data***
Rat, oral, $LD_{50}$: 770 mg/kg; toxic effects not yet reviewed
Frog, inhalation, $TC_{LO}$: 117 mg/m³ inhaled for 1 hr affects the peripheral nerve and sensation (flaccid paralysis without anesthesia); behavior (excitement); lungs, thorax, or respiration (respiratory depression)

* *See NIOSH, RTECS (KV9360000), for additional toxicity data.*

## Section 3. Physical Data

**Boiling Point:** 119 °F/48 °C
**Melting Point:** -56 to -115 °F/-49 to -82 °C/
**Vapor Pressure:** 180 to 264 torr at 68 °F/20 °C
**Vapor Density (Air = 1):** 3.4

**Molecular Weight:** 96.95 g/mol
**Specific Gravity ($H_2O$ = 1 at 39 °F/4 °C):** 1.27 at 77 °F/25 °C
**Water Solubility:** Insoluble

**Appearance and Odor:** A colorless, low-boiling liquid with a pleasant odor.

## Section 4. Fire and Explosion Data

| Flash Point: 37 °F/2.8 °C, CC | Autoignition Temperature: 860 °F/460 °C | LEL: 5.6% v/v | UEL: 12.8% v/v |
|---|---|---|---|

**Extinguishing Media:** Use dry chemical, $CO_2$, halon, water spray, or standard foam. Water may be ineffective unless used to blanket the fire.
**Unusual Fire or Explosion Hazards:** This material's vapors are a dangerous fire hazard and moderate explosion hazard when exposed to any heat or ignition source or oxidizer.
**Special Fire-fighting Procedures:** Since fire may produce toxic fumes, wear a self-contained breathing apparatus (SCBA) with a full facepiece operated in the pressure-demand or positive-pressure mode and a fully encapsulating suit. Vapors may travel to heat or ignition sources and flash back. Stay upwind and out of low areas. Be aware of runoff from fire control methods. Do not release to sewers or waterways.

## Section 5. Reactivity Data

**Stability/Polymerization:** This material is stable at room temperature in closed containers under normal storage and handling conditions. Hazardous polymerization cannot occur.
**Chemical Incompatibilities:** This material is incompatible with alkalies, nitrogen tetraoxide, difluoromethylene, strong oxidizers, and dihypofluorite. When in contact with copper or copper alloys or by reaction with potassium hydroxide, explosive chloroacetylene may be released.
**Conditions to Avoid:** Addition of hot liquid to cold 1,2-dichloroethylene may cause sudden emission of vapor that could flash back to an ignition source.
**Hazardous Products of Decomposition:** Thermal oxidative decomposition of 1,2-dichloroethylene can produce highly toxic fumes of chlorine (Cl).

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## Section 6. Health Hazard Data

**Carcinogenicity:** Neither the NTP, IARC, nor OSHA lists 1,2-dichloroethylene as a carcinogen.
**Summary of Risks:** 1,2-Dichloroethylene's most important effect is its irritation of the central nervous system (CNS) and narcosis. This material is toxic by inhalation, ingestion, and skin contact. It is also irritating to the eyes. The trans-isomer at 2200 ppm causes nausea, vertigo, and burning of the eyes. The trans-isomer is twice as potent as the cis-isomer. If renal effects occur, they are transient.
**Medical Conditions Aggravated by Long-Term Exposure:** None reported.
**Target Organs:** Central nervous system, eyes, respiratory system.
**Primary Entry Routes:** Inhalation, ingestion, skin and eye contact.
**Acute Effects:** Inhalation of 1,2-dichloroethylene causes narcosis, respiratory tract irritation, nausea, vomiting, tremor, weakness, central nervous depression, and epigastric (the abdomen's upper midregion) cramps. Contact with the liquid causes eye and skin (on prolonged contact) irritation. Ingestion causes slight depression to deep narcosis.
**Chronic Effects:** None reported.
**FIRST AID**
**Eyes:** Flush immediately, including under the eyelids, gently but thoroughly with flooding amounts of running water for at least 15 min.
**Skin:** *Quickly* remove contaminated clothing. After rinsing affected skin with flooding amounts of water, wash it with soap and water.
**Inhalation:** Remove exposed person to fresh air and support breathing as needed. Have trained personnel administer 100% oxygen, preferably with humidification.
**Ingestion:** Never give anything by mouth to an unconscious or convulsing person. If ingested, have a *conscious* person drink 1 to 2 glasses of water, then induce repeated vomiting until vomit is clear.
**After first aid, get appropriate in-plant, paramedic, or community medical support.**
**Physician's Note:** Intravenous injections of calcium gluconate may relieve cramps and vomiting. Treat central nervous system effects symptomatically.

## Section 7. Spill, Leak, and Disposal Procedures

**Spill/Leak:** *Design and practice a 1,2-dichloroethylene spill control and countermeasure plan (SCCP).* Notify safety personnel, remove all heat and ignition sources, evacuate hazard area, and provide adequate ventilation. Cleanup personnel should protect against vapor inhalation and skin or eye contact. Absorb small spills on paper towels. After evaporating the 1,2-dichloroethylene from these paper towels in a fume hood, burn the paper in a suitable location away from combustible material. Collect and atomize large quantities in a suitable combustion chamber equipped with an appropriate effluent gas cleaning device. Follow applicable OSHA regulations (29 CFR 1910.120).
**Disposal:** Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, state, and local regulations.
**EPA Designations**
Listed as a RCRA Hazardous Waste (40 CFR 261.33)
Listed as a CERCLA Hazardous Substance* (40 CFR 302.4), Reportable Quantity (RQ): 100 lb (45.4 kg) [* per RCRA, Sec. 3001, per Clean Water Act, Sec. 307(a)]†
SARA Extremely Hazardous Substance (40 CFR 355): Not listed
Listed as a SARA Toxic Chemical (40 CFR 372.65)
**OSHA Designations**
Listed as an Air Contaminant (29 CFR 1910.1000, Table Z-1)
† Listed as 1,2-*trans*-dichloroethylene.

## Section 8. Special Protection Data

**Goggles:** Wear protective eyeglasses or chemical safety goggles, per OSHA eye- and face-protection regulations (29 CFR 1910.133).
**Respirator:** Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a NIOSH-approved respirator. For emergency or nonroutine operations (cleaning spills, reactor vessels, or storage tanks), wear an SCBA.
**Warning:** Air-purifying respirators do *not* protect workers in oxygen-deficient atmospheres.
**Other:** Wear impervious gloves, boots, aprons, and gauntlets to prevent prolonged or repeated skin contact. 1,2-dichloroethylene attacks some forms of plastics, rubber, and coatings.
**Ventilation:** Provide general and local explosion-proof ventilation systems to maintain airborne concentrations below the OSHA PEL and ACGIH TLV (Sec. 2). Local exhaust ventilation is preferred since it prevents contaminant dispersion into the work area by controlling it at its source.[107]
**Safety Stations:** Make available in the work area emergency eyewash stations, safety/quick-drench showers, and washing facilities.
**Contaminated Equipment:** Never wear contact lenses in the work area: soft lenses may absorb, and all lenses concentrate, irritants. Remove this material from your shoes and equipment. Launder contaminated clothing before wearing.
**Comments:** Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

## Section 9. Special Precautions and Comments

**Storage Requirements:** Store in tightly closed containers in a cool, well-ventilated area away from all incompatible materials (Sec. 5) and oxidizing materials. Outside or detached storage is preferred. If stored inside, place containers in a standard flammable liquids storage cabinet or room. Protect containers from physical damage.
**Engineering Controls:** Avoid vapor inhalation and skin and eye contact. Use only with adequate ventilation and appropriate personal protective gear. Institute a respiratory protection program that includes regular training, maintenance, inspection, and evaluation. 1,2-dichloroethylene is a dangerous fire hazard. All engineering systems should be of maximum explosion-proof design and electrically grounded and bonded. Provide preplacement questionnaires which emphasize detecting a history of chronic respiratory disease.
**Transportation Data (49 CFR 172.101, .102):** Not listed

*MSDS Collection* References: 7, 26, 38, 73, 84, 85, 87, 88, 100, 101, 103, 109, 126, 127, 136, 137
**Prepared by: MJ Allison, BS; Industrial Hygiene Review: DJ Wilson, CIH; Medical Review: MJ Hardies, MD**

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*Material Safety Data Sheets Collection:*

Sheet No. 470
Diesel Fuel Oil No. 2-D

Issued: 10/81 Revision: A, 11/90

## Section 1. Material Identification

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**Diesel Fuel Oil No. 2-D Description:** Diesel fuel is obtained from the middle distillate in petroleum separation; a distillate oil of low sulfur content. It is composed chiefly of unbranched paraffins. Diesel fuel is available in various grades, one of which is synonymous with fuel oil No. 2-D. This diesel fuel oil requires a minimum Cetane No. (efficiency rating for diesel fuel comparable to octane number ratings for gasoline) of 40 (ASTM D613). Used as a fuel for trucks, ships, and other automotive engines; as mosquito control (coating on breeding waters); and for drilling muds.

**Other Designations:** CAS No. 68334-30-5, diesel fuel.

**Manufacturer:** Contact your supplier or distributor. Consult the latest *Chemicalweek Buyers' Guide*(TM) for a suppliers list.

**Cautions:** Diesel fuel oil No. 2-D is a skin irritant and central nervous depressant with high mist concentrations. It is an environmental hazard and moderate fire risk.

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| R | 1 |
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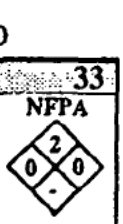
NFPA

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* Sec. 8

## Section 2. Ingredients and Occupational Exposure Limits

Diesel fuel oil No. 2-D*

| 1989 OSHA PEL | 1990-91 ACGIH TLV | 1988 NIOSH REL | 1985-86 Toxicity Data‡ |
|---|---|---|---|
| None established | Mineral Oil Mist<br>TWA: 5 mg/m³†<br>STEL: 10 mg/m³ | None established | Rat, oral, $LD_{50}$: 9 g/kg produces gastrointestinal (hypermotility, diarrhea) effects |

* Diesel fuel No. 2-D tends to be low in aromatics and high in paraffinics. This fuel oil is complex mixture of: 1) >95% paraffinic, olefinic, naphthenic, and aromatic hydrocarbons, 2) sulfur (<0.5%), and 3) benzene (<100 ppm). [A low benzene level reduces carcinogenic risk. Fuel oils can be exempted under the benzene standard (29 CFR 1910.1028)]. Although low in the fuel itself, benzene concentrations are likely to be much higher in processing areas.
† As sampled by nonvapor-collecting method.
‡ Monitor NIOSH, *RTECS* (HZ1800000), for future toxicity data.

## Section 3. Physical Data

**Boiling Point Range:** 340 to 675 °F (171 to 358 °C)
**Viscosity:** 1.9 to 4.1 centistoke at 104 °F (40 °C)
**Specific Gravity:** <0.86
**Water Solubility:** Insoluble

**Appearance and Odor:** Brown, slightly viscous liquid.

## Section 4. Fire and Explosion Data

| Flash Point: 125 °F (52 °C) min. | Autoignition Temperature: >500 °F (932 °C) | LEL: 0.6% v/v | UEL: 7.5% v/v |
|---|---|---|---|

**Extinguishing Media:** Use dry chemical, carbon dioxide, or foam to fight fire. Use a water spray to cool fire exposed containers. Do not use a forced water spray directly on burning oil since this will scatter the fire. Use a smothering technique for extinguishing fire.

**Unusual Fire or Explosion Hazards:** Diesel fuel oil No. 2-D is a OSHA Class II combustible liquid. Its volatility is similar to that of gas oil. Vapors may travel to a source of ignition and flash back.

**Special Fire-fighting Procedures:** Isolate hazard area and deny entry. Since fire may produce toxic fumes, wear a self-contained breathing apparatus (SCBA) with a full facepiece operated in the pressure-demand or positive-pressure mode and full protective clothing. If feasible, remove containers from fire. Be aware of runoff from fire control methods. Do not release to sewers or waterways due to pollution and fire or explosion hazard.

## Section 5. Reactivity Data

**Stability/Polymerization:** Diesel fuel oil No. 2-D is stable at room temperature in closed containers under normal storage and handling conditions. Hazardous polymerization cannot occur.

**Chemical Incompatibilities:** It is incompatible with strong oxidizing agents; heating greatly increases the fire hazard.

**Conditions to Avoid:** Avoid heat and ignition sources.

**Hazardous Products of Decomposition:** Thermal oxidative decomposition of diesel fuel oil No. 2-D can produce various hydrocarbons and hydrocarbon derivatives, and other partial oxidation products such as carbon dioxide, carbon monoxide, and sulfur dioxide.

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## Section 6. Health Hazard Data

**Carcinogenicity:** Although the IARC has not assigned an overall evaluation to diesel fuels as a group, it has evaluated occupational exposures in petroleum refining as an IARC probable human carcinogen (Group 2A). It has evaluated distillate (light) diesel oils as not classifiable as human carcinogens (Group 3).
**Summary of Risks:** Although diesel fuel's toxicologic effects should resemble kerosine's, they are somewhat more pronounced due to additives such as sulfurized esters. Excessive inhalation of aerosol or mist can cause respiratory tract irritation, headache, dizziness, nausea, vomiting, and loss of coordination, depending on concentration and exposure time. When removed from exposure area, affected persons usually recover completely. If vomiting occurs after ingestion and if oil is aspirated into the lungs, hemorrhaging and pulmonary edema, progressing to renal involvement and chemical pneumonitis, may result. A comparative ratio of oral to aspirated lethal doses may be 1 pt vs. 5 ml. Aspiration may also result in transient CNS depression or excitement. Secondary effects may include hypoxia (insufficient oxygen in body cells), infection, pneumatocele formation, and chronic lung dysfunction. Inhalation may result in euphoria, cardiac dysrhythmias, respiratory arrest, and CNS toxicity. Prolonged or repeated skin contact may irritate hair follicles and block sebaceous glands, producing a rash of acne pimples and spots, usually on arms and legs.
**Medical Conditions Aggravated by Long-Term Exposure:** None reported.
**Target Organs:** Central nervous system, skin, and mucous membranes.
**Primary Entry Routes:** Inhalation, ingestion.
**Acute Effects:** Systemic effects from ingestion include gastrointestinal irritation, vomiting, diarrhea, and in severe cases central nervous system depression, progressing to coma or death. Inhalation of aerosols or mists may result in increased rate of respiration, tachycardia (excessively rapid heart beat), and cyanosis (dark purplish discoloration of the skin and mucous membranes caused by deficient blood oxygenation).
**Chronic Effects:** Repeated contact with the skin causes dermatitis.
**FIRST AID**
**Eyes:** Gently lift the eyelids and flush immediately and continuously with flooding amounts of water until transported to an emergency medical facility. Consult a physician immediately.
**Skin:** *Quickly* remove contaminated clothing. Rinse with flooding amounts of water for at least 15 min. If large areas of the body have been exposed or if irritation persists, get medical help immediately. Wash affected area with soap and water.
**Inhalation:** Remove exposed person to fresh air and support breathing as needed.
**Ingestion:** Never give anything by mouth to an unconscious or convulsing person. If ingested, *do not induce vomiting* due to aspiration hazard. Contact a physician immediately. Position to avoid aspiration.
**After first aid, get appropriate in-plant, paramedic, or community medical support.**
**Note to Physicians:** Gastric lavage is contraindicated due to aspiration hazard. Preferred antidotes are charcoal and milk. In cases of severe aspiration pneumonitis, consider monitoring arterial blood gases to ensure adequate ventilation. Observe the patient for 6 hr. If vital signs become abnormal or symptoms develop, obtain a chest x-ray.

## Section 7. Spill, Leak, and Disposal Procedures

**Spill/Leak:** Notify safety personnel, evacuate area for large spills, remove all heat and ignition sources, and provide maximum explosion-proof ventilation. Cleanup personnel should protect against vapor inhalation and liquid contact. Clean up spills promptly to reduce fire or vapor hazards. Use a noncombustible absorbent material to pick up small spills or residues. For large spills, dike far ahead to contain. Pick up liquid for reclamation or disposal. Do not release to sewers or waterways due to health and fire and/or explosion hazard. Follow applicable OSHA regulations (29 CFR 1910.120). Diesel fuel oil No. 2-D spills may be environmental hazards. Report large spills.
**Disposal:** Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, state, and local regulations.
**EPA Designations**
RCRA Hazardous Waste (40 CFR 261.21): Ignitable waste
CERCLA Hazardous Substance (40 CFR 302.4): Not listed
SARA Extremely Hazardous Substance (40 CFR 355): Not listed
SARA Toxic Chemical (40 CFR 372.65): Not listed
**OSHA Designations**
Air Contaminant (29 CFR 1910.1000, Subpart Z): Not listed

## Section 8. Special Protection Data

**Goggles:** Wear protective eyeglasses or chemical safety goggles, per OSHA eye- and face-protection regulations (29 CFR 1910.133).
**Respirator:** Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, use a NIOSH-approved respirator with a mist filter and organic vapor cartridge. For emergency or nonroutine operations (cleaning spills, reactor vessels, or storage tanks), wear an SCBA. *Warning! Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.*
**Other:** Wear impervious gloves, boots, aprons, and gauntlets to prevent skin contact.
**Ventilation:** Provide general and local explosion-proof ventilation systems to maintain airborne concentrations that promote worker safety and productivity. Local exhaust ventilation is preferred since it prevents contaminant dispersion into the work area by controlling it at its source.[105]
**Safety Stations:** Make available in the work area emergency eyewash stations, safety/quick-drench showers, and washing facilities.
**Contaminated Equipment:** Never wear contact lenses in the work area: soft lenses may absorb, and all lenses concentrate, irritants. Remove this material from your shoes and equipment. Launder contaminated clothing before wearing.
**Comments:** Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

## Section 9. Special Precautions and Comments

**Storage Requirements:** Use and storage conditions should be suitable for a OSHA Class II combustible liquid. Store in closed containers in a well-ventilated area away from heat and ignition sources and strong oxidizing agents. Protect containers from physical damage. To prevent static sparks, electrically ground and bond all containers and equipment used in shipping, receiving, or transferring operations. Use nonsparking tools and explosion-proof electrical equipment. No smoking in storage or use areas.
**Engineering Controls:** Avoid vapor or mist inhalation and prolonged skin contact. Wear protective rubber gloves and chemical safety glasses where contact with liquid or high mist concentration may occur. Additional suitable protective clothing may be required depending on working conditions. Institute a respiratory protection program that includes regular training, maintenance, inspection, and evaluation. Practice good personal hygiene and housekeeping procedures. Do not wear oil contaminated clothing. At least weekly laundering of work clothes is recommended. Do not put oily rags in pockets. When working with this material, wear gloves or use barrier cream.
**Transportation Data (49 CFR 172.101)**
**DOT Shipping Name:** Fuel oil
**DOT Hazard Class:** Combustible liquid
**ID No.:** NA1993
**DOT Label:** None
**DOT Packaging Exceptions:** 173.118a
**DOT Packaging Requirements:** None

*MSDS Collection* References: 1, 6, 7, 12, 73, 84, 101, 103, 126, 127, 132, 133, 136, 143, 146
Prepared by: MJ Allison, BS; Industrial Hygiene Review: DJ Wilson, CIH; Medical Review: AC Darlington, MD; Edited by: JR Stuart, MS 97

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# MATERIAL SAFETY DATA SHEET

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NEW YORK, NEW YORK 10036
1-800-445-MSDS (1-800-445-6737) OR
1-212-789-3535

FOR EMERGENCY SOURCE INFORMATION
CONTACT: 1-615-366-2000

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## SUBSTANCE IDENTIFICATION

CAS NUMBER: 1746-01-6
RTECS NUMBER: HP3500000

SUBSTANCE: 2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN

TRADE NAMES/SYNONYMS:
DIBENZO(B,E)(1,4)DIOXIN, 2,3,7,8-TETRACHLORO-;
DIBENZO-P-DIOXIN, 2,3,7,8-TETRACHLORO-;
2,3,7,8-TETRACHLORODIBENZO(B,E)(1,4)DIOXIN; DIOXIN; TCDD; 2,3,7,8-TCDD;
TCDBD; 2,3,7,8-TETRACHLORODIBENZODIOXIN;
2,3,7,8-TETRACHLORODIBENZO(1,4)DIOXIN; TETRACHLORODIBENZODIOXIN; C12H4CL4O2;
OHS08060

CHEMICAL FAMILY:
HALOGEN COMPOUND, AROMATIC

MOLECULAR FORMULA: CL2-C6-H2-O2-C6-H2-CL2

MOLECULAR WEIGHT: 321.96

CERCLA RATINGS (SCALE 0-3): HEALTH=3 FIRE=1 REACTIVITY=0 PERSISTENCE=3
NFPA RATINGS (SCALE 0-4): HEALTH=4 FIRE=1 REACTIVITY=0

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## COMPONENTS AND CONTAMINANTS

COMPONENT: 2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN PERCENT: 100.0
CAS# 1746-01-6

OTHER CONTAMINANTS: NONE

EXPOSURE LIMITS:
DIOXIN:
LOWEST FEASIBLE LIMIT NIOSH RECOMMENDED EXPOSURE CRITERIA

1 POUND CERCLA SECTION 103 REPORTABLE QUANTITY
SUBJECT TO CALIFORNIA PROPOSITION 65 CANCER AND/OR REPRODUCTIVE TOXICITY
WARNING AND RELEASE REQUIREMENTS- (JANUARY 1, 1988)

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## PHYSICAL DATA

DESCRIPTION: COLORLESS TO WHITE NEEDLES.

MELTING POINT: 581-583 F (305-306 C) SPECIFIC GRAVITY: NOT AVAILABLE

SOLUBILITY IN WATER: 0.0002 PPM

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|---|---|
| To SANDY DRAPER | From JOHN MULLER |
| Co. HLA | Co. HA |
| Dept. | Phone # |
| Fax # | (b) (6) |

DECOMPOSES ABOVE 1292 F (700 C)



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## FIRE AND EXPLOSION DATA

FIRE AND EXPLOSION HAZARD:
SLIGHT FIRE HAZARD WHEN EXPOSED TO HEAT OR FLAME.

FIREFIGHTING MEDIA:
DRY CHEMICAL, CARBON DIOXIDE, WATER SPRAY OR REGULAR FOAM (1990 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.5).

FOR LARGER FIRES, USE WATER SPRAY, FOG OR REGULAR FOAM (1990 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.5).

FIREFIGHTING:
MOVE CONTAINER FROM FIRE AREA IF YOU CAN DO IT WITHOUT RISK (1990 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.5, GUIDE PAGE 53).

EXTINGUISH USING AGENT SUITABLE FOR TYPE OF SURROUNDING FIRE. AVOID BREATHING VAPORS AND DUSTS. KEEP UPWIND.

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## TRANSPORTATION DATA

DEPARTMENT OF TRANSPORTATION HAZARD CLASSIFICATION 49-CFR 172.101:
POISON B

DEPARTMENT OF TRANSPORTATION LABELING REQUIREMENTS 49-CFR 172.101 AND SUBPART E:
POISON

DEPARTMENT OF TRANSPORTATION PACKAGING REQUIREMENTS: 49-CFR 173.365
EXCEPTIONS: 49-CFR 173.364

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## TOXICITY

2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN:
IRRITATION DATA: 2 MG EYE-RABBIT MODERATE.
TOXICITY DATA: 107 UG/KG SKIN-HUMAN TDLO; 275 UG/KG SKIN-RABBIT LD50; 80 UG/KG SKIN-MOUSE LDLO; 20 UG/KG ORAL-RAT LD50; 114 UG/KG ORAL-MOUSE LD50; 1157 UG/KG ORAL-HAMSTER LD50; 500 NG/KG ORAL-GUINEA PIG LD50; 2 UG/KG ORAL-MONKEY LD50; 1 UG/KG ORAL-DOG LD50; 4200 NG/KG ORAL-MAMMAL LD50; 60 UG/KG INTRAPERITONEAL-RAT LD50; 252 UG/KG INTRAPERITONEAL-RABBIT LD50; 120 UG/KG INTRAPERITONEAL-MOUSE LD50; 3 MG/KG INTRAPERITONEAL-HAMSTER LD50; 200 UG/KG UNREPORTED-MOUSE LDLO; MUTAGENIC DATA (RTECS); REPRODUCTIVE EFFECTS DATA (RTECS); TUMORIGENIC DATA (RTECS).
CARCINOGEN STATUS: ANTICIPATED HUMAN CARCINOGEN (NTP). HUMAN INADEQUATE EVIDENCE, ANIMAL SUFFICIENT EVIDENCE (IARC GROUP-2B) AN INCREASED INCIDENCE OF LIVER CANCERS AND CANCERS OF THE LUNGS, NOSE, OR MOUTH WERE OBSERVED IN RATS MAINTAINED ON DIETS CONTAINING THIS CHEMICAL. IN OTHER GAVAGE STUDIES, THYROID NEOPLASMS WERE OBSERVED IN RATS, LIVER CANCERS IN MICE, LIVER NEOPLASMS IN FEMALE RATS AND MICE, AND TUMORS IN A VARIETY OF ORGANS IN RATS. THIS MATERIAL APPLIED TO THE SKIN OF MICE PRODUCED INTEGUMENTARY

SYSTEM FIBROSARCOMAS IN FEMALES. IN OTHER TWO-STAGE SKIN TUMORIGENESIS ASSAYS, THIS MATERIAL DISPLAYED ACTIVITIES OF A TUMOR PROMOTER AND OF A



TUMOR INITIATOR.
LOCAL EFFECTS: IRRITANT- EYE.
ACUTE TOXICITY LEVEL: HIGHLY TOXIC BY DERMAL ABSORPTION AND INGESTION.
TARGET EFFECTS: POISONING MAY AFFECT THE SKIN, LIVER, AND NERVOUS, IMMUNE, AND REPRODUCTIVE SYSTEMS.
ADDITIONAL DATA: THE RATE OF SKIN ABSORPTION MAY BE INFLUENCED BY THE DOSE AND AGE OF THE INDIVIDUAL EXPOSED. THE LOWER THE DOSE, THE MORE EASILY DIOXINS TEND TO PENETRATE THE SKIN.

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## HEALTH EFFECTS AND FIRST AID

INHALATION:
2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN:
ACUTE EXPOSURE- MAY CAUSE RESPIRATORY TRACT IRRITATION, HEADACHE, DIZZINESS, NAUSEA, AND VOMITING. CHLORACNE MAY APPEAR A FEW WEEKS TO SEVERAL MONTHS AFTER EXPOSURE AND IS CHARACTERIZED BY INCLUSION CYSTS, COMEDONES AND PUSTULES, WITH EVENTUAL SCARING OF THE SKIN. THESE LESIONS INVOLVE THE FACE, THE NECK, TORSO, THIGHS, AND GENITALS. SOMETIMES THE CHLORACNE IS PRECEDED BY ERYTHEMATOUS AND EDEMATOUS SKIN LESIONS. SOME INDIVIDUALS HAVE EXPERIENCED BLEPHAROCONJUNCTIVITIS AND IRRITATION OF OTHER MUCOUS MEMBRANES. CHLORACNE MAY LAST FOR MANY YEARS AFTER EXPOSURE. EFFECTS ON THE CENTRAL NERVOUS SYSTEM AND LIVER MAY OCCUR AS DESCRIBED IN CHRONIC INHALATION.
CHRONIC EXPOSURE- IN ADDITION TO CHLORACNE, SYSTEMIC EFFECTS FROM EXPOSURE MAY INCLUDE FATIGUE, HEADACHE, INSOMNIA, DECREASED LIBIDO, LOSS OF APPETITE AND WEIGHT, SENSORIAL IMPAIRMENTS, AND INTOLERANCE TO COLD. NEUROMUSCULAR SYMPTOMS MAY OCCUR WITH MUSCULAR WEAKNESS, ACHES AND PAINS WITH NERVE CONDUCTION ABNORMALITIES. IRRITABILITY AND PSYCHOPATHOLOGICAL CHANGES MAY BE OBSERVED. ALTERED PORPHYRIN METABOLISM (PORPHYRIA CUTANEA TARDA) CHARACTERIZED BY HIRSUTISM, ATROPHIC SKIN CHANGES, PHOTOSENSITIVITY, SLATE GRAY SKIN PIGMENTATION, EASY FRIABILITY AND VESICLE FORMATION, ELEVATED UROPORPHYRIN LEVELS IS ANOTHER EFFECT ASSOCIATED WITH EXPOSURE. OTHER EFFECTS MAY INCLUDE HYPERLIPIDEMIA, HYPERCHOLESTEROLEMIA, MYOCARDIAL CHANGES, AND ENLARGED LIVER AND IMPAIRMENT OF LIVER FUNCTIONS. DEPRESSION OF CELL-MEDIATED IMMUNITY, AS DEMONSTRATED BY AN INCREASED INCIDENCE OF ANERGY, WAS REPORTED FROM A STUDY OF INDIVIDUALS EXPOSED TO DUST CONTAMINATED WITH DIOXIN. CONFLICTING RESULTS WERE OBTAINED FROM DIFFERENT EPIDEMIOLOGIC STUDIES CONCERNING THE RELATIONSHIP OF EXPOSURE TO THIS MATERIAL AND INCREASE INCIDENCES OF REPRODUCTIVE EFFECTS. THE RESULTS FROM EPIDEMIOLOGIC STUDIES ARE SUGGESTIVE OF AN ASSOCIATION BETWEEN EXPOSURE TO PHENOXYACETIC HERBICIDES CONTAMINATED WITH 2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN AND EXCESS LYMPHOMA AND STOMACH CANCER.

FIRST AID- REMOVE FROM EXPOSURE AREA TO FRESH AIR IMMEDIATELY. IF BREATHING HAS STOPPED, PERFORM ARTIFICIAL RESPIRATION. KEEP PERSON WARM AND AT REST. TREAT SYMPTOMATICALLY AND SUPPORTIVELY. GET MEDICAL ATTENTION IMMEDIATELY.

SKIN CONTACT:
2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN:
HIGHLY TOXIC.
ACUTE EXPOSURE- A LETHAL DOSE IN RABBITS BY DERMAL ABSORPTION WAS 275 UG/KG. CHLORACNE, A SKIN CONDITION, MAY OCCUR AS A LOCAL EFFECT

DUE TO DIRECT SKIN CONTACT OR AS A SYSTEMIC EFFECT DUE TO SKIN ABSORPTION. CHLORACNE IS CHARACTERIZED BY INCLUSION CYSTS, COMEDONES AND PUSTULES, WITH EVENTUAL SCARING OF THE SKIN. THESE LESIONS INVOLVE THE



FACE, NECK, TORSO, THIGHS, AND GENITALS. SOMETIMES THE CHLORACNE IS PRECEDED BY ERYTHEMATOUS AND EDEMATOUS SKIN LESIONS. EFFECTS ON THE CENTRAL NERVOUS SYSTEM AND LIVER MAY OCCUR AS DESCRIBED IN CHRONIC INHALATION.

CHRONIC EXPOSURE- IN ADDITION TO CHLORACNE, PROLONGED OR REPEATED EXPOSURE MAY PRODUCE EFFECTS AS DESCRIBED IN CHRONIC INHALATION. SMALL DOSES TEND TO PENETRATE THE SKIN MORE READILY THAN LARGER DOSES. THUS, CHRONIC LOW-DOSE EXPOSURE MAY HAVE A SIGNIFICANT EFFECT ON TOTAL BODY BURDEN.

FIRST AID- REMOVE CONTAMINATED CLOTHING AND SHOES IMMEDIATELY. WASH AFFECTED AREA WITH SOAP OR MILD DETERGENT AND LARGE AMOUNTS OF WATER UNTIL NO EVIDENCE OF CHEMICAL REMAINS (APPROXIMATELY 15-20 MINUTES). GET MEDICAL ATTENTION IMMEDIATELY.

EYE CONTACT:
2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN:
IRRITANT.

ACUTE EXPOSURE- 2 MG APPLIED TO THE EYE OF A RABBIT WAS MODERATELY IRRITATING.

CHRONIC EXPOSURE- PROLONGED OR REPEATED EXPOSURE TO IRRITANTS MAY CAUSE CONJUNCTIVITIS.

FIRST AID- WASH EYES IMMEDIATELY WITH LARGE AMOUNTS OF WATER OR NORMAL SALINE, OCCASIONALLY LIFTING UPPER AND LOWER LIDS, UNTIL NO EVIDENCE OF CHEMICAL REMAINS (APPROXIMATELY 15-20 MINUTES). GET MEDICAL ATTENTION IMMEDIATELY.

INGESTION:
2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN:
HIGHLY TOXIC/CARCINOGEN.

ACUTE EXPOSURE- A LETHAL DOSE IN RATS WAS 20 UG/KG. EFFECTS OF POISONING IN RATS WERE RUFFLED HAIR COAT, HUNCHED POSTURE, INACTIVITY AND JAUNDICE, AND IN MICE WERE ASCITES. ANOREXIA, DEHYDRATION, DEPRESSION, EMACIATION, INTESTINAL HEMORRHAGE AND ALOPECIA WERE OBSERVED IN DOGS. SIGNS OF POISONING IN MONKEYS INCLUDED BLEPHARITIS, LOSS OF FINGERNAILS AND EYELASHES, FACIAL ALOPECIA WITH ACNEFORM ERUPTIONS, MILD ANEMIA, NEUTROPHILIA, LYMPHOPENIA, DECREASED SERUM CHOLESTEROL LEVELS, INCREASE IN SERUM TRIGLYCERIDE CONCENTRATIONS, AND AN INCREASE IN LIVER, ADRENAL GLAND, AND KIDNEY WEIGHTS. ANIMALS GIVEN ACUTE DOSES SUFFERED SEVERE WEIGHT LOSS WITH DEATH DELAYED ONE TO SEVERAL WEEKS. AN ALMOST COMPLETE LOSS OF ADIPOSE TISSUE WAS OBSERVED AT NECROPSY. ATROPHY OF THE THYMUS WAS DISPLAYED IN MICE, RATS, GUINEA PIGS, AND MONKEYS; LIVER DAMAGE WAS OBSERVED IN RATS, MICE AND RABBITS. SINGLE DOSES OF AS LITTLE AS 1-10 UG/KG PRODUCED INCREASED FREQUENCY OF CLEFT PALATE IN THE MOUSE FETUS. KIDNEY ABNORMALITIES, INCLUDING HYDRONEPHROSIS, WERE OBSERVED IN THE FETUSES OF RATS AND MICE GIVEN ACUTE DOSES.

CHRONIC EXPOSURE- ONE MONKEY THAT RECEIVED A DIETARY LEVEL OF 0.02 PPM PER DAY BECAME LETHARGIC AFTER 3 DAYS AND DIED ON THE 12TH DAY WITH A 30% WEIGHT LOSS. CELL-MEDIATED IMMUNITY WAS SUPPRESSED IN GUINEA PIGS AND MICE FROM SUBLETHAL DOSE LEVELS. THROMBOCYTOPENIA AND OTHER EFFECTS ON THE BLOOD WERE PRODUCED IN RATS AND MAY HAVE BEEN RESPONSIBLE FOR THE PRODUCTION OF HEMORRHAGES THAT OCCURRED IN RATS. CHROMOSOME ABNORMALITIES WERE NOTED IN MALE AND FEMALE RATS DOSED TWICE WEEKLY AT 4 UG/KG FOR 13 WEEKS. REPEATED DOSES FED TO MICE AND RATS PRODUCED FETOTOXIC EFFECTS AS LISTED IN ACUTE INGESTION. OTHER EFFECTS REPORTED IN FETUSES OF

PREGNANT RATS REPEATEDLY FED 0.125 TO 2 UG/KG INCLUDED DEPRESSED WEIGHT, INTERNAL HEMORRHAGES, AND LOWERED SURVIVAL. REPEATED DOSES ALSO PRODUCED FETAL ABNORMALITIES IN RABBITS, FERRETS, AND CHICKENS. A DECREASE IN SPERMATOGENESIS CHARACTERIZED BY THE ABSENCE OF SPERMATIDS



OR MATURE SPERMATOZOA WAS REPORTED FROM A STUDY OF MALE RHESUS MONKEYS; SPONTANEOUS MISCARRIAGES OCCURRED IN FEMALE MONKEYS. AN INCREASED INCIDENCE OF LIVER CANCERS AND CANCERS OF THE LUNGS, NOSE, OR MOUTH WAS OBSERVED IN RATS MAINTAINED ON DIETS CONTAINING THIS MATERIAL. IN OTHER STUDIES, THYROID NEOPLASMS WERE OBSERVED IN RATS; LIVER CANCERS IN MICE; LIVER NEOPLASMS IN FEMALE RATS AND MICE, AND TUMORS IN A VARIETY OF ORGANS IN RATS.

FIRST AID- REMOVE BY EMESIS WITH SYRUP OF IPECAC. AFTER EMESIS, PERFORM GASTRIC LAVAGE WITH ACTIVATED CHARCOAL AND FOLLOW WITH A SALINE CATHARTIC. (DREISBACH - HANDBOOK OF POISONING, 11TH ED.) TREATMENT SHOULD BE PERFORMED BY QUALIFIED MEDICAL PERSONNEL.

ANTIDOTE:
NO SPECIFIC ANTIDOTE. TREAT SYMPTOMATICALLY AND SUPPORTIVELY.

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## REACTIVITY

REACTIVITY:
STABLE UNDER NORMAL TEMPERATURES AND PRESSURES.

INCOMPATIBILITIES:
2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN:
NO DATA AVAILABLE.

DECOMPOSITION:
THERMAL DECOMPOSITION PRODUCTS MAY INCLUDE HIGHLY TOXIC FUMES OF PHOSGENE, TOXIC AND CORROSIVE FUMES OF CHLORIDES, AND OXIDES OF CARBON.

POLYMERIZATION:
HAZARDOUS POLYMERIZATION HAS NOT BEEN REPORTED TO OCCUR UNDER NORMAL TEMPERATURES AND PRESSURES.

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## STORAGE AND DISPOSAL

OBSERVE ALL FEDERAL, STATE AND LOCAL REGULATIONS WHEN STORING OR DISPOSING OF THIS SUBSTANCE. FOR ASSISTANCE, CONTACT THE DISTRICT DIRECTOR OF THE ENVIRONMENTAL PROTECTION AGENCY.

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## CONDITIONS TO AVOID

MAY BURN BUT DOES NOT IGNITE READILY. PREVENT DISPERSION OF DUST IN AIR. DO NOT ALLOW SPILLED MATERIAL TO CONTAMINATE WATER SOURCES.

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## SPILL AND LEAK PROCEDURES

WATER SPILL:
THE CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986 (PROPOSITION 65) PROHIBITS CONTAMINATING ANY KNOWN SOURCE OF DRINKING WATER

WITH SUBSTANCES KNOWN TO CAUSE CANCER AND/OR REPRODUCTIVE TOXICITY.

OCCUPATIONAL SPILL:
DO NOT TOUCH SPILLED MATERIAL. STOP LEAK IF YOU CAN DO IT WITHOUT RISK. FOR SMALL SPILLS, TAKE UP WITH SAND OR OTHER ABSORBENT MATERIAL AND PLACE INTO



CONTAINERS FOR LATER DISPOSAL. FOR SMALL DRY SPILLS, WITH A CLEAN SHOVEL PLACE MATERIAL INTO CLEAN, DRY CONTAINER AND COVER. MOVE CONTAINERS FROM SPILL AREA. FOR LARGER SPILLS, DIKE FAR AHEAD OF SPILL FOR LATER DISPOSAL. KEEP UNNECESSARY PEOPLE AWAY. ISOLATE HAZARD AREA AND DENY ENTRY.

REPORTABLE QUANTITY (RQ): 1 POUND
THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT (SARA) SECTION 304 REQUIRES THAT A RELEASE EQUAL TO OR GREATER THAN THE REPORTABLE QUANTITY FOR THIS SUBSTANCE BE IMMEDIATELY REPORTED TO THE LOCAL EMERGENCY PLANNING COMMITTEE AND THE STATE EMERGENCY RESPONSE COMMISSION (40 CFR 355.40). IF THE RELEASE OF THIS SUBSTANCE IS REPORTABLE UNDER CERCLA SECTION 103, THE NATIONAL RESPONSE CENTER MUST BE NOTIFIED IMMEDIATELY AT (800) 424-8802 OR (202) 426-2675 IN THE METROPOLITAN WASHINGTON, D.C. AREA (40 CFR 302.6).

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## PROTECTIVE EQUIPMENT

VENTILATION:
PROCESS ENCLOSURE RECOMMENDED.

RESPIRATOR:
THE FOLLOWING RESPIRATORS ARE RECOMMENDED BASED ON INFORMATION FOUND IN THE PHYSICAL DATA, TOXICITY AND HEALTH EFFECTS SECTIONS. THEY ARE RANKED IN ORDER FROM MINIMUM TO MAXIMUM RESPIRATORY PROTECTION.
THE SPECIFIC RESPIRATOR SELECTED MUST BE BASED ON CONTAMINATION LEVELS FOUND IN THE WORK PLACE, MUST BE BASED ON THE SPECIFIC OPERATION, MUST NOT EXCEED THE WORKING LIMITS OF THE RESPIRATOR AND MUST BE JOINTLY APPROVED BY THE NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH AND THE MINE SAFETY AND HEALTH ADMINISTRATION (NIOSH-MSHA).

ANY TYPE 'C' SUPPLIED-AIR RESPIRATOR WITH A FULL FACEPIECE OPERATED IN PRESSURE-DEMAND OR OTHER POSITIVE PRESSURE MODE OR WITH A FULL FACEPIECE, HELMET OR HOOD OPERATED IN CONTINUOUS-FLOW MODE.

ANY SELF-CONTAINED BREATHING APPARATUS WITH A FULL FACEPIECE OPERATED IN PRESSURE-DEMAND OR OTHER POSITIVE PRESSURE MODE.

FOR FIREFIGHTING AND OTHER IMMEDIATELY DANGEROUS TO LIFE OR HEALTH CONDITIONS:

ANY SELF-CONTAINED BREATHING APPARATUS THAT HAS A FULL FACEPIECE AND IS OPERATED IN A PRESSURE-DEMAND OR OTHER POSITIVE-PRESSURE MODE.

ANY SUPPLIED-AIR RESPIRATOR THAT HAS A FULL FACEPIECE AND IS OPERATED IN A PRESSURE-DEMAND OR OTHER POSITIVE-PRESSURE MODE IN COMBINATION WITH AN AUXILIARY SELF-CONTAINED BREATHING APPARATUS OPERATED IN PRESSURE-DEMAND OR OTHER POSITIVE-PRESSURE MODE.

CLOTHING:
EMPLOYEE MUST WEAR APPROPRIATE PROTECTIVE (IMPERVIOUS) CLOTHING AND EQUIPMENT TO PREVENT ANY POSSIBILITY OF SKIN CONTACT WITH THIS SUBSTANCE.

GLOVES:
EMPLOYEE MUST WEAR APPROPRIATE PROTECTIVE GLOVES TO PREVENT CONTACT WITH THIS SUBSTANCE.



EYE PROTECTION:
EMPLOYEE MUST WEAR SPLASH-PROOF OR DUST-RESISTANT SAFETY GOGGLES AND A FACESHIELD TO PREVENT CONTACT WITH THIS SUBSTANCE.

EMERGENCY WASH FACILITIES:
WHERE THERE IS ANY POSSIBILITY THAT AN EMPLOYEE'S EYES AND/OR SKIN MAY BE EXPOSED TO THIS SUBSTANCE, THE EMPLOYER SHOULD PROVIDE AN EYE WASH FOUNTAIN AND QUICK DRENCH SHOWER WITHIN THE IMMEDIATE WORK AREA FOR EMERGENCY USE.

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# Material Safety Data Sheet

from Genium's Reference Collection
Genium Publishing Corporation
1145 Catalyn Street
Schenectady, NY 12303-1836 USA
(518) 377-8855

GENIUM PUBLISHING CORP.

No. 385

ETHYL BENZENE
(Revision A)
Issued: August 1978
Revised: November 1988

## SECTION 1. MATERIAL IDENTIFICATION

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**Material Name:** ETHYL BENZENE

**Description (Origin/Uses):** Used as a solvent and as an intermediate in the production of styrene monomer.

**Other Designations:** Phenylethane; Ethylbenzol; $C_2H_5C_6H_5$; CAS No. 0100-41-4

**Manufacturer:** Contact your supplier or distributor. Consult the latest edition of the *Chemicalweek Buyers' Guide* (Genium ref. 73) for a list of suppliers.

NFPA: 3 / 2 / 0 / -

| HMIS | | | |
|---|---|---|---|
| H | 2 | R | 1 |
| F | 3 | I | 3 |
| R | 0 | S | 2 |
| PPG* | | K | 4 |

*See sect. 8

## SECTION 2. INGREDIENTS AND HAZARDS

| SECTION 2. INGREDIENTS AND HAZARDS | % | EXPOSURE LIMITS |
|---|---|---|
| Ethyl Benzene, CAS No. 0100-41-4 | Ca 100 | **OSHA PELs**<br>8-Hr TWA: 100 ppm, 435 mg/m³<br>15- Min STEL: 125 ppm, 545 mg/m³<br>**ACGIH TLVs, 1988-89**<br>TLV-TWA: 100 ppm, 435 mg/m³<br>TLV-STEL: 125 ppm, 545 mg/m³<br>**Toxicity Data***<br>Human, Inhalation, $TC_{Lo}$: 100 ppm (8 Hrs)<br>Rat, Oral, $LD_{50}$: 3500 mg/kg |

*See NIOSH, *RTECS* (DA0700000), for additional data with references to reproductive, irritative, and mutagenic effects.

## SECTION 3. PHYSICAL DATA

**Boiling Point:** 277°F (136°C)
**Melting Point:** -139°F (-95°C)
**Vapor Pressure:** 7.1 Torrs at 68°F (20°C)
**Vapor Density (Air = 1):** 3.7
**% Volatile by Volume:** Ca 100
**Molecular Weight:** 106 Grams/Mole
**Solubility in Water (%):** Slight
**Specific Gravity ($H_2O$ = 1):** 0.86258 at 77°F (25°C)

**Appearance and Odor:** A clear, colorless, flammable liquid; characteristic aromatic hydrocarbon odor.

## SECTION 4. FIRE AND EXPLOSION DATA

| Flash Point and Method: 64°F (18°C) CC | Autoignition Temperature: 810°F (432.22°C) | LEL: 1% v/v | UEL: 6.7% v/v |
|---|---|---|---|

**Extinguishing Media:** Use foam, dry chemical, or carbon dioxide to put out ethyl benzene fires. A water spray may be ineffective in extinguishing the fire, because it can scatter and spread the burning liquid. Use water spray to cool fire-exposed containers of ethyl benzene, to disperse ethyl benzene vapor, and to protect personnel attempting to stop an ethyl benzene leak. **Unusual Fire or Explosion Hazards:** This liquid can readily form explosive vapor-air mixtures, especially when heated. Ethyl benzene vapor is heavier than air and may travel a considerable distance to a low-lying source of ignition and flash back to its origin. **Special Fire-fighting Procedures:** Wear a self-contained breathing apparatus (SCBA) with a full facepiece operated in the pressure-demand or positive-pressure mode.

## SECTION 5. REACTIVITY DATA

**Stability/Polymerization:** Ethyl benzene is stable in closed containers during routine operations. Hazardous polymerization cannot occur. **Chemical Incompatibilities:** Hazardous chemical reactions can occur between ethyl benzene and strong oxidizing agents, acids, ammonia, and bases. **Conditions to Avoid:** Avoid any exposure to sources of ignition such as heat, sparks, open flame, and lighted tobacco products, etc., and to incompatible chemicals. Use caution when entering confined spaces, particularly low-lying areas where explosive concentrations of ethyl benzene vapor may be present. Provide good ventilation to such areas to prevent the concentration of this vapor. **Hazardous Products of Decomposition:** Thermal-oxidative degradation can include toxic gases such as carbon monoxide and/or aromatic hydrocarbon gases.

## SECTION 6. HEALTH HAZARD INFORMATION

**Carcinogenicity:** Ethyl benzene is not listed as a carcinogen by the NTP, IARC, or OSHA.
**Summary of Risks:** Ethyl benzene vapor is severely irritating to the eyes and to the mucous membranes of the respiratory system. Sustained inhalation of excessive levels can cause depression of the central nervous system (CNS) characterized by dizziness, headache, narcosis, and coma. Skin contact with liquid ethyl benzene causes irritation; dermatitis and defatting can also develop. The acute oral toxicity of ethyl benzene is low; however, ingestion of it presents a serious aspiration hazard. Aspirating even a small amount into the lungs can result in extensive edema (lungs filled with fluid) and hemorrhaging of the lung tissue. No systemic effects are expected at the levels that produce pronounced, unignorable, disagreeable skin and eye irritation. The TLVs cited in section 2 are set to prevent this intolerable irritation. **Medical Conditions Aggravated by Long-Term Exposure:** None reported. **Target Organs:** Skin, eyes, respiratory system, and CNS. **Primary Entry:** Inhalation, skin contact **Acute Effects:** Irritation of the skin, eyes, and respiratory system. Also, cardiac-rhythm disturbance due to sensitization; acute bronchitis, bronchospasm, pulmonary and laryngeal edema; euphoria; headache; giddiness; dizziness; and incoordination, as well as possible depression; confusion; and coma. **Chronic Effects:** None reported. **First Aid:** Eyes. Immediately

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## SECTION 6. HEALTH HAZARD INFORMATION, cont.

flush eyes, including under the eyelids, gently but thoroughly with flooding amounts of running water for at least 15 minutes. **Skin.** Rinse the affected area with plenty of water, then wash it with soap and water. **Inhalation.** Remove the exposed person to fresh air; restore and/or support his or her breathing as needed. Have qualified medical personnel administer oxygen as required. **Ingestion.** Unlikely. Should this type of exposure occur, the aspiration hazard must be considered. Do not induce vomiting unless directed to do so by a physician. To prevent aspiration by spontaneous vomiting, keep the victim's head low (between his or her knees). **Get medical help (in plant, paramedic, community) for all exposures.** Seek prompt medical assistance for further treatment, observation, and support after first aid. **Note to Physician:** Professional judgment is required as to whether or not to induce vomiting because of the possibility of aspiration. A gastric lavage may be administered, followed by saline catharsis, if this procedure is appropriate to the specific incident. Monitor cardiac and pulmonary functions.

## SECTION 7. SPILL, LEAK, AND DISPOSAL PROCEDURES

**Spill/Leak:** Notify safety personnel, evacuate unnecessary personnel, eliminate all sources of ignition immediately, and provide adequate explosion-proof ventilation. Cleanup personnel need protection against skin or eye contact with this liquid as well as inhalation of its vapor (see sect. 8). Contain large spills and collect waste or absorb it with an inert material such as sand, earth, or vermiculite. Use nonsparking tools to place waste liquid or absorbent into closable containers for disposal. Keep waste out of sewers, watersheds, and waterways. **Waste Disposal:** Contact your supplier or a licensed contractor for detailed recommendations. Follow Federal, state, and local regulations.

**OSHA Designations**

Listed as an Air Contaminant (29 CFR 1910.1000 Subpart Z).

**EPA Designations (40 CFR 302.4)**

CERCLA Hazardous Substance, Reportable Quantity: 1000 lbs (454 kg), per the Clean Water Act (CWA), §§ 311 (b) (4) and 307 (a).

## SECTION 8. SPECIAL PROTECTION INFORMATION

**Goggles:** Always wear protective eyeglasses or chemical safety goggles. Where splashing is possible, wear a full face shield. Follow OSHA eye- and face-protection regulations (29 CFR 1910.133). **Respirator:** Wear a NIOSH-approved respirator per Genium reference 88 for the maximum-use concentrations and/or the exposure limits cited in section 2. Follow OSHA respirator regulations (29 CFR 1910.134). For emergency or nonroutine operations (spills or cleaning reactor vessels and storage tanks), wear an SCBA. **Warning:** Air-purifying respirators will *not* protect workers in oxygen-deficient atmospheres. **Other:** Wear impervious gloves, boots, aprons, and gauntlets, etc., to prevent prolonged or repeated skin contact with this material. **Ventilation:** Install and operate general and local maximum, explosion-proof ventilation systems powerful enough to maintain airborne levels of this material below the OSHA PEL standard cited in section 2. Local exhaust ventilation is preferred because it prevents dispersion of the contaminant into the general work area by eliminating it at its source. Consult the latest edition of Genium reference 103 for detailed recommendations. **Safety Stations:** Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work areas. **Contaminated Equipment:** Contact lenses pose a special hazard; soft lenses may absorb irritants, and all lenses concentrate them. Do *not* wear contact lenses in any work area. Remove contaminated clothing and launder it before wearing it again; clean this material from shoes and equipment. **Comments:** Practice good personal hygiene; always wash thoroughly after using this material and before eating, drinking, smoking, using the toilet, or applying cosmetics. Keep it off your clothing and equipment. Avoid transferring it from your hands to your mouth while eating, drinking, or smoking. Do *not* eat, drink, or smoke in any work area. Do not inhale ethyl benzene vapor.

## SECTION 9. SPECIAL PRECAUTIONS AND COMMENTS

**Storage/Segregation:** Store ethyl benzene in closed containers in a cool, dry, well-ventilated area away from sources of ignition and strong oxidizers. Protect containers from physical damage. **Special Handling/Storage:** Outside, isolated, detached, or remote storage is recommended for large quantities of ethyl benzene. Isolate bulk storage areas from acute fire hazards. **Engineering Controls:** Make sure all engineering systems (production, transportation) are of maximum explosion-proof design. To prevent static sparks, electrically ground and bond all containers, pipelines, etc., used in shipping, transferring, reacting, production, and sampling operations. **Other:** Use safety cans for transferring small amounts of ethyl benzene.

**Transportation Data (49 CFR 172.101-2)**

**DOT Shipping Name:** Ethyl Benzene
**DOT Hazard Class:** Flammable Liquid
**ID No.** UN1175
**DOT Label:** Flammable Liquid
**DOT Packaging Exceptions:** 49 CFR 173.118
**DOT Packaging Requirements:** 49 CFR 173.119

**IMO Shipping Name:** Ethylbenzene
**IMO Hazard Class:** 3.2
**IMO Label:** Flammable Liquid
**IMDG Packaging Group:** II

**References:** 1, 26, 38, 84-94, 100, 116, 117, 120, 122.

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# MATERIAL SAFETY DATA SHEET

GENIUM PUBLISHING CORPORATION
1145 CATALYN STREET
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(518) 377-8855

GENIUM PUBLISHING CORP.

NO. 467

AUTOMOTIVE
GASOLINE, LEAD-FREE

Date October 1981

## SECTION I. MATERIAL IDENTIFICATION

MATERIAL NAME: AUTOMOTIVE GASOLINE, LEAD-FREE
DESCRIPTION: A volatile blend of hydrocarbons for automotive fuel
OTHER DESIGNATIONS: Petrol, CAS #008 006 61 9, ASTM D439
MANUFACTURER: Available from several suppliers.

| SECTION II. INGREDIENTS AND HAZARDS | % | HAZARD DATA |
|---|---|---|
| Gasoline<br>A hydrocarbon blend that can include normal and branched chain alkanes, cycloalkanes, alkenes, aromatics and other additives.** (Lead max 0.013 g/L, phosphorus max 0.0013 g/L, sulfur max 0.10 wt%. May contain benzene, <5%; see ASTM D3606).<br>*ACGIH 1981 TLV (Intended Changes List). See also Am. Ind. Hyg. A. 39 110-117 (1978)<br>**The composition of fuel is varied with altitude and seasonal requirements for a locality. The blend must meet antiknock requirements. (Antiknock Index min 85, ASTM D439.) | 100 | 8-hr TWA 300 ppm or 900 mg/m$^3$*<br><br>Man<br>Eye: 500 ppm/1H<br>Moderate irritation<br><br>Inhalation:<br>TCLo 900 ppm/1H<br>TFX:CNS |

## SECTION III. PHYSICAL DATA

Distillation at 1 atm, Initial, deg C >39
50% distilled - 77-121
End point ----- <240
Vapor density (Air=1) ----------3.0-4.0
Solubility in water ---------- Insoluble

Specific gravity, 60/60 F - 0.72-0.76
Melting point, deg C ------ -90.5-95.4
Evaporation rate --------- N/A

Appearance and Odor: A clear, mobile liquid with a characteristic odor which can be recognized at about 10 ppm in air. (Gasoline may be colored with dye.)

## SECTION IV. FIRE AND EXPLOSION DATA

| Flash Point and Method | Autoignition Temp. | Flammability Limits In Air % by volume | LOWER | UPPER |
|---|---|---|---|---|
| -45 F | 536-853 F | | 1.4 | 7.6 |

Extinguishing Media: Dry chemical, carbon dioxide, alcohol foam. Use of water may be ineffective to extinguish fire, but use water spray for cooling fire-exposed drums and tanks to prevent pressure rupture. It is a dangerous fire and explosion hazard when exposed to heat and flames. Vapors can flow along surfaces, reach distant ignition sources and flash back. Can react violently with oxidizing agents.
Firefighters should wear self-contained breathing apparatus and full protective clothing.

## SECTION V. REACTIVITY DATA

This is a stable material in closed containers at room temperature under normal storage and handling conditions. It does not undergo hazardous polymerization.
This is an OSHA Class IA flammable liquid. A mixture of gasoline vapors and air can be explosive. It is incompatible with oxidizing agents.
Thermal-oxidative degradation can yield carbon monoxide and partially oxidized hydrocarbons.

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## SECTION VI. HEALTH HAZARD INFORMATION

TLV 300 ppm (See Sect. II)

Inhalation causes intense burning of the mucous membranes, throat and respiratory tract; overexposure to vapors can lead to bronchopneumonia. Inhalation of high conc. can cause fatal pulmonary edema. Repeated or prolonged skin exposure causes dermatitis. Can cause blistering of skin due to its defatting properties. Exposure to eyes can cause hyperemia of the conjunctiva.

Ingestion or excessive vapors can cause inebriation, drousiness, blurred vision, vertigo confusion, vomiting and cyanosis (2000 ppm produces mild anesthesia in 30 min, higher conc. are intoxicating in less time.) Aspiration after ingestion causes bronchitis, pneumonia, or edema which can be fatal.

FIRST AID:

Eye Contact: Flush thoroughly with running water for 15 min. including under eyelids.

Skin Contact: Remove contaminated clothing. Wash affected area with soap and water.

Inhalation: Remove to fresh air. Restore breathing and administer oxygen if needed.

Ingestion: Do not induce vomiting. Aspiration hazard. Contact physician.

Seek prompt medical assistance for further treatment, observation and support.

## SECTION VII. SPILL, LEAK, AND DISPOSAL PROCEDURES

Notify safety personnel of leaks or spills. Remove sources of heat or ignition. Provide adequate ventilation. Clean-up personnel require protection against liquid contact and vapor inhalation. If a leak or spill has not ignited, use water spray to disperse vapors and to protect men attempting to stop the leakage. Contain spill. Do not allow to enter sewer or surface water. Add absorbent solid to small spills or residues and pick up for disposal.

DISPOSAL: Burn scrap material in an approved incinerator. Burn contaminated liquid by spraying into an incinerator. Follow Federal, State, and Local regulations.

## SECTION VIII. SPECIAL PROTECTION INFORMATION

Use general and local exhaust ventilation (explosion-proof) to keep vapors below the TLV requirements in the workplace. Respirators should be available for nonroutine or emergency use above the TLV.

Avoid eye contact by use of chemical safety goggles and/or full faceshield where splashing is possible. Wear protective clothing appropriate for the work situation to minimize skin contact such as rubber gloves and boots. Clothing to be changed daily and laundered.

Eyewash fountains, showers and washing facilities should be readily accessible

Provide suitable training to those handling and working with this material.

## SECTION IX. SPECIAL PRECAUTIONS AND COMMENTS

Store in closed containers in a cool, dry, well-ventilated area away from sources of heat, ignition and strong oxidizing agents. Protect containers from physical damage. Avoid direct sunlight. Storage must meet requirements of OSHA Class IA liquid.

Outdoor or detached storage preferred. No smoking in areas of use. Prevent static electric sparks and use explosion-proof electrical services. (Must meet code.)

Avoid skin and eye contact. Avoid inhalation of vapors. Wear clean work clothing daily.

Indoor use of this material requires exhaust ventilation to remove vapors.

ICC Flammable Liquid, Red Label. LABEL: Flammable Liquid DOT I.D. No. UN 1203.

DOT Classification: FLAMMABLE LIQUID

DATA SOURCE(S) CODE: 2,4-9,34,37

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APPROVALS: MIS CRD J. M. [illegible]

Industrial Hygiene and Safety [illegible]

MEDICAL REVIEW: 14 November 1981

# M A T E R I A L  S A F E T Y  D A T A  S H E E T

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PREPARATION DATE .....: JUN 28, '89

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CHEMTREC EMERGENCY NUMBER:
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NFPA HAZARD RATINGS

HEALTH ....: 1  FLAMMABILITY ...: 3
REACTIVITY : 0  SPECIAL HAZARDS.:

## SECTION I - GENERAL INFORMATION

CATALOG NUMBER(S): HX0293 HX0294 HX0296 HX0297 HX0298 HX0299 HX0299P HX0299S HX0300 HX0310 HX0290 HX0292 9687 HX0299T

CHEMICAL NAME....: HEXANE
TRADE NAME.......: HEXANES
C.A.S. NUMBER....: 110-54-3
CHEMICAL FAMILY..: ALIPHATIC HYDROCARBON
FORMULA..........: C.6.H.14.
MOLECULAR WEIGHT.: 86.18
DOT SHIPPING NAME: HEXANE
DOT NUMBER.......: UN1208

## SECTION II - HAZARDOUS INGREDIENTS

| COMPONENT | CAS# | APPROX. % | PEL (TWA) | TLV (TWA) |
|---|---|---|---|---|
| N-HEXANE | 110-54-3 | 85-90 | 50 PPM | 50 PPM |
| METHYLCYCLOPENTANE | 96-37-7 | 5-10 | NE | NE |
| METHYLPENTANES | NE | 0-5 | NE | NE |

NE = NONE ESTABLISHED

MAY CONTAIN TRACE LEVELS (0.0002%) OF BENZENE.

## SECTION III- PHYSICAL DATA

BOILING POINT (C 760 MM HG).: 65C
MELTING POINT (C)...........: - 95C
SPECIFIC GRAVITY(H.2.O = 1)....: 0.6603
VAPOR PRESSURE..(MM HG)......: 125  20C

PERCENT VOLATILE BY VOL (%)..: 100
VAPOR DENSITY (AIR=1).....: 3.0
EVAPORATION RATE (BUAC=1)....: 9.0
SOLUBILITY IN WATER (%).....: SLIGHT
APPEARANCE AND ODOR.....: CLEAR, COLORLESS LIQUID,
CHARACTERISTIC ODOR

## SECTION IV - FIRE & EXPLOSION HAZARD DATA

FLASH POINT (F).....: -7F (CC)
FLAMMABLE LIMITS LEL %.: 1.2
FLAMMABLE LIMITS UEL %.: 7.5
EXTINGUISHING MEDIA....: CO.2., DRY CHEMICAL, FOAM
FIRE FIGHTING PROC.....:
WEAR SELF-CONTAINED BREATHING APPARATUS.
FIRE & EXPL. HAZARDS...:
DANGEROUS FIRE AND EXPLOSION HAZARD.
VAPOR CAN TRAVEL DISTANCES TO IGNITION SOURCE AND FLASH BACK.

## SECTION V - HEALTH HAZARD DATA (ACUTE AND CHRONIC)

ACGIH TLV/OSHA PEL (TWA).....: SEE SECTION II
TOXICITY DATA.....:
-IHL-HMN TCLO: 5000 PPM/10M ORL-RAT LD50: 28710 MG/KG
SYMPTOMS OF EXPOSURE .....:
TOXIC BY INGESTION AND INHALATION.
VAPOR INHALATION CAUSES IRRITATION OF NASAL AND RESPIRATORY PASSAGES,
HEADACHE, DIZZINESS, NAUSEA, CENTRAL NERVOUS SYSTEM DEPRESSION.
CHRONIC OVEREXPOSURE CAN CAUSE SEVERE NERVE DAMAGE.
MAY CAUSE IRRITATION ON CONTACT WITH SKIN OR EYES.
MAY CAUSE DAMAGE TO KIDNEYS.
MEDICAL COND. AGGRAVATED BY EXP: KIDNEY, RESPIRATORY AND CNS CONDITIONS
ROUTES OF ENTRY.....: INHALATION, INGESTION OR SKIN CONTACT.
CARCINOGENICITY.....:
THE MATERIAL IS NOT LISTED AS A CANCER CAUSING AGENT.
EMERGENCY FIRST AID.....:
GET MEDICAL ASSISTANCE FOR ALL CASES OF OVEREXPOSURE
EYES: IMMEDIATELY FLUSH THOROUGHLY WITH WATER FOR AT LEAST 15 MINUTES.
SKIN: WASH THOROUGHLY WITH SOAP AND WATER.
INHALATION: REMOVE TO FRESH AIR; GIVE ARTIFICIAL RESPIRATION IF
BREATHING HAS STOPPED.
INGESTION: DO NOT INDUCE VOMITING; GET MEDICAL ATTENTION.

## SECTION VI - REACTIVITY DATA

STABILITY.....: YES
CONDITIONS TO AVOID .....: HEAT; CONTACT WITH IGNITION SOURCE.

MATERIALS TO AVOID.....: ( ) WATER ( ) ACIDS
( ) BASES ( ) CORROSIVES (X) OXIDIZERS
( ) OTHER:
HAZARDOUS POLYMERIZATION.: DOES NOT OCCUR
HAZARDOUS DECOMPOSITION..: CO.X.

## SECTION VII - ENVIRONMENTAL PROTECTION PROCEDURES

SPILL RESPONSE:
-DIKE SPILL; TAKE UP WITH ABSORBENT; CONTAINERIZE FOR PROPER DISPOSAL
WASTE DISPOSAL: TO BE PERFORMED IN COMPLIANCE WITH ALL CURRENT LOCAL, STATE AND FEDERAL REGULATIONS.

## SECTION VIII - SPECIAL PROTECTION INFORMATION

VENTILATION, RESPIRATORY PROTECTION, PROTECTIVE CLOTHING, EYE PROTECTION:
-MATERIAL SHOULD BE HANDLED OR TRANSFERRED IN AN APPROVED FUME HOOD OR WITH ADEQUATE VENTILATION
PROTECTIVE GLOVES (NITRILE, VITON OR EQUIVALENT) SHOULD BE WORN TO PREVENT SKIN CONTACT
SAFETY GLASSES WITH SIDE SHIELDS SHOULD BE WORN AT ALL TIMES
NIOSH/MSHA-APPROVED RESPIRATOR SHOULD BE WORN IN THE ABSENCE OF ADEQUATE VENTILATION.

## SECTION IX - SPECIAL PRECAUTIONS

HANDLING & STORAGE ....:
KEEP CONTAINER CLOSED.
STORE IN A COOL AREA AWAY FROM IGNITION SOURCES AND OXIDIZERS.
DO NOT BREATHE VAPOR.
DO NOT GET IN EYES, ON SKIN, OR ON CLOTHING.
ELECTRICALLY GROUND ALL EQUIPMENT WHEN HANDLING THIS PRODUCT
RETAINED RESIDUE MAY MAKE EMPTY CONTAINERS HAZARDOUS; USE CAUTION!
WORK/HYGIENIC PRACTICES: WASH THOROUGHLY AFTER HANDLING. DO NOT TAKE INTERNALLY. EYE WASH AND SAFETY EQUIPMENT SHOULD BE READILY AVAILABLE.

## SECTION X - OTHER INFORMATION

COMMENTS.....:
-TESTS ON LABORATORY ANIMALS INDICATE MATERIAL MAY PRODUCE ADVERSE MUTAGENIC AND REPRODUCTIVE EFFECTS
REVISION HISTORY.....: 05/01/83, 9/26/86, 6/3/87, 8/28/87, 10/27/87, 1/27/88, 11/29/88, 4/26/89
N/A = NOT AVAILABLE:

J.T.BAKER INC. 222 RED SCHOOL LANE, PHILLIPSBURG, NJ 08865
M A T E R I A L  S A F E T Y  D A T A  S H E E T
24-HOUR EMERGENCY TELEPHONE -- (201) 859-2151
CHEMTREC # (800) 424-9300 -- NATIONAL RESPCNSE CENTER # (800) 424-8802


EFFECTIVE: 05/01/89 ISSUED: 05/16/89

J.T.BAKER INC., 222 RED SCHOOL LANE, PHILLIPSBURG, NJ 08865

## SECTION I - PRODUCT ICENTIFICATION

PRODUCT NAME: HYDROCHLORIC ACID
COMMON SYNONYMS: MURIATIC ACID; CHLOROHYDRIC ACID; HYDROGEN CHLORIDE, AQUEOUS
CHEMICAL FAMILY: INORGANIC ACIDS
FORMULA: HCL
FORMULA WT.: 36.46
CAS NO.: 7647-01-0
NICSH/RTECS NO.: MW4025000
PRODUCT USE: LABORATORY REAGENT
PRODUCT CODES: 9530,9546,5537,9529,9543,4800,9539,9547,5367,9535,9549,9548 9537,9544,9540,9534,9542,6900

## PRECAUTIONARY LABELING

BAKER SAF-T-DATA* SYSTEM

| | | | |
|---|---|---|---|
| HEALTH | - | 3 | SEVERE (POISON) |
| FLAMMABILITY | - | 0 | NONE |
| REACTIVITY | - | 2 | MODERATE |
| CONTACT | - | 3 | SEVERE (CORROSIVE) |

LABCRATORY PRCTECTIVE EQUIPMENT

GOGGLES & SHIELD; LAB COAT & APRON; VENT HOOD; PROPER GLOVES

U.S. PRECAUTIONARY LABELING

POISON DANGER

CAUSES SEVERE BURNS. MAY BE FATAL IF SWALLCWED OR INHALED.
DO NOT GET IN EYES, ON SKIN, ON CLOTHING. DC NGT BREATHE VAPOR. CAUSES DAMAGE TO RESPIRATORY SYSTEM (LUNGS), EYES AND SKIN. KEEP IN TIGHTLY CLOSED CONTAINER. LOOSEN CLOSURE CAUTIOUSLY. USE WITH ACEQUATE VENTILATION. WASH THORCUGHLY AFTER HANDLING. IN CASE OF SPILL NEUTRALIZE WITH SODA ASH CR LIME AND PLACE IN CRY CONTAINER.

CONTINUED ON PAGE: 2

## PRECAUTIONARY LABELING (CONTINUED)

### INTERNATIONAL LABELING

IRRITATING TO EYES AND SKIN.
KEEP OUT OF REACH OF CHILDREN. IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.

SAF-T-DATA* STORAGE COLOR CODE: WHITE (CORROSIVE)

## SECTION II - COMPONENTS

| COMPONENT | CAS NO. | WEIGHT % | OSHA/PEL | ACGIH/TLV |
|---|---|---|---|---|
| HYDROCHLORIC ACID | 7647-01-0 | 33-40 | 5 PPM | 5 PPM |
| WATER | 7732-18-5 | 60-67 | N/E | N/E |

## SECTION III - PHYSICAL DATA

BOILING POINT: 110 C (230 F)
(AT 760 MM HG)

VAPOR PRESSURE (MMHG): N/A

MELTING POINT: -25 C (-13 F)
(AT 760 MM HG)

VAPOR DENSITY (AIR=1): 1.3

SPECIFIC GRAVITY: 1.19
(H2O=1)

EVAPORATION RATE: N/A

SOLUBILITY(H2O): COMPLETE (100%)

% VOLATILES BY VOLUME: 100
(21 C)

PH: 1.0 (0.1M SOLUTION)

ODOR THRESHOLD (P.P.M.): N/A

PHYSICAL STATE: LIQUID

COEFFICIENT WATER/OIL DISTRIBUTION: N/A

APPEARANCE & ODOR: CLEAR, COLORLESS FUMING LIQUID. PUNGENT ODOR.

CONTINUED ON PAGE: 3

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (CLOSED CUP): N/A NFPA 704M RATING: 3-0-0

AUTOIGNITION TEMPERATURE: N/A

FLAMMABLE LIMITS: UPPER - N/A LOWER - N/A

FIRE EXTINQUISHING MEDIA
USE EXTINGUISHING MEDIA APPROPRIATE FOR SURROUNDING FIRE.

SPECIAL FIRE-FIGHTING PROCEDURES
FIREFIGHTERS SHOULD WEAR PROPER PROTECTIVE EQUIPMENT AND SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN POSITIVE PRESSURE MODE. MOVE CONTAINERS FROM FIRE AREA IF IT CAN BE DONE WITHOUT RISK. USE WATER TO KEEP FIRE-EXPOSED CONTAINERS COOL. DO NOT GET WATER INSIDE CONTAINERS.

UNUSUAL FIRE & EXPLOSION HAZARDS
MAY EMIT HYDROGEN GAS UPON CONTACT WITH METAL.

TOXIC GASES PRODUCED
HYDROGEN CHLORIDE, HYDROGEN

EXPLOSION DATA-SENSITIVITY TO MECHANICAL IMPACT
NONE IDENTIFIED.

EXPLOSION DATA-SENSITIVITY TO STATIC DISCHARGE
NONE IDENTIFIED.

## SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE (TLV/TWA): 7 MG/M3 (5 PPM)

TLV (CEILING) IS FOR HYDROGEN CHLORIDE.

SHORT-TERM EXPOSURE LIMIT (STEL): NOT ESTABLISHED

PERMISSIBLE EXPOSURE LIMIT (PEL): 7 MG/M3 (5 PPM)

PEL (CEILING) IS FOR HYDROGEN CHLORIDE.

CONTINUED ON PAGE: 4

## SECTION V - HEALTH HAZARD DATA (CONTINUED)

TOXICITY OF COMPONENTS

| | | |
|---|---|---|
| INTRAPERITONEAL MOUSE LD50 FOR HYDROCHLORIC ACID | 40 | MG/KG |
| ORAL RABBIT LD50 FOR HYDROCHLORIC ACID | 900 | MG/KG |
| INHALATION-1HR RAT LC50 FOR HYDROCHLORIC ACID | 3124 | PPM |
| INTRAPERITONEAL MOUSE LD50 FOR WATER | 190 | G/KG |
| INTRAVENOUS MOUSE LD50 FOR WATER | 25 | G/KG |

CARCINOGENICITY: NTP: NO IARC: NO Z LIST: NO OSHA REG: NO

CARCINOGENICITY
NONE IDENTIFIED.

REPRODUCTIVE EFFECTS
NONE IDENTIFIED.

EFFECTS OF OVEREXPOSURE

INHALATION: PULMONARY EDEMA, CIRCULATORY FAILURE, RESPIRATORY SYSTEM DAMAGE, COLLAPSE, COUGHING, DIFFICULT BREATHING

SKIN CONTACT: SEVERE BURNS

EYE CONTACT: SEVERE BURNS

SKIN ABSORPTION: NONE IDENTIFIED

INGESTION: IS HARMFUL AND MAY BE FATAL, SEVERE BURNS TO MOUTH, THROAT, AND STOMACH, NAUSEA, VOMITING

CHRONIC EFFECTS: NONE IDENTIFIED

TARGET ORGANS
RESPIRATORY SYSTEM, EYES, SKIN

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE
NONE IDENTIFIED

PRIMARY ROUTES OF ENTRY
INGESTION, INHALATION, SKIN CONTACT, EYE CONTACT

CONTINUED ON PAGE: 5

## SECTION V - HEALTH HAZARD DATA (CONTINUED)

EMERGENCY AND FIRST AID PROCEDURES

INGESTION: CALL A PHYSICIAN. IF SWALLOWED, DO NOT INDUCE VOMITING. IF CONSCIOUS, GIVE WATER, MILK, OR MILK OF MAGNESIA.

INHALATION: IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN.

SKIN CONTACT: IN CASE OF CONTACT, IMMEDIATELY FLUSH SKIN WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. WASH CLOTHING BEFORE RE-USE.

EYE CONTACT: IN CASE OF EYE CONTACT, IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES.

SARA/TITLE III HAZARD CATEGORIES AND LISTS

ACUTE: YES CHRONIC: YES FLAMMABILITY: NO PRESSURE: NO REACTIVITY: NO

| | | |
|---|---|---|
| EXTREMELY HAZARDOUS SUBSTANCE: | YES | CONTAINS HYDROGEN CHLORIDE (RQ = 1 LB, TPQ = 500 LBS) |
| CERCLA HAZARDOUS SUBSTANCE: | YES | CONTAINS HYDROCHLORIC ACID (RQ = 5000 LBS) |
| TOXIC CHEMICALS: | YES | CONTAINS HYDROCHLORIC ACID |
| GENERIC CLASS: | | C16 |
| TSCA INVENTORY: | YES | |

## SECTION VI - REACTIVITY DATA

STABILITY: STABLE HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS TO AVOID: HEAT, MOISTURE

INCOMPATIBLES: MOST COMMON METALS, WATER, AMINES, METAL OXIDES, ACETIC ANHYDRIDE, PROPIOLACTONE, VINYL ACETATE, MERCURIC SULFATE, CALCIUM PHOSPHIDE, FORMALDEHYDE, ALKALIES, CARBONATES, STRONG BASES, SULFURIC ACID, CHLOROSULFONIC ACID

DECOMPOSITION PRODUCTS: HYDROGEN CHLORIDE, HYDROGEN, CHLORINE

CONTINUED ON PAGE: 6

## SECTION VII - SPILL & DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN THE EVENT OF A SPILL OR DISCHARGE
WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING. STOP LEAK IF YOU CAN DO SO WITHOUT RISK. VENTILATE AREA. NEUTRALIZE SPILL WITH SODA ASH OR LIME. WITH CLEAN SHOVEL, CAREFULLY PLACE MATERIAL INTO CLEAN, DRY CONTAINER AND COVER; REMOVE FROM AREA. FLUSH SPILL AREA WITH WATER.

J. T. BAKER NEUTRASORB(R) OR TEAM* 'LOW NA+' ACID NEUTRALIZERS ARE RECOMMENDED FOR SPILLS OF THIS PRODUCT.

DISPOSAL PROCEDURE
DISPOSE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL ENVIRONMENTAL REGULATIONS.

EPA HAZARDOUS WASTE NUMBER: D002 (CORROSIVE WASTE)

## SECTION VIII - INDUSTRIAL PROTECTIVE EQUIPMENT

VENTILATION: USE GENERAL OR LOCAL EXHAUST VENTILATION TO MEET TLV REQUIREMENTS.

RESPIRATORY PROTECTION: RESPIRATORY PROTECTION REQUIRED IF AIRBORNE CONCENTRATION EXCEEDS TLV. AT CONCENTRATIONS UP TO 100 PPM, A CHEMICAL CARTRIDGE RESPIRATOR WITH ACID CARTRIDGE IS RECOMMENDED. ABOVE THIS LEVEL, A SELF-CONTAINED BREATHING APPARATUS IS ADVISED.

EYE/SKIN PROTECTION: SAFETY GOGGLES AND FACE SHIELD, UNIFORM, PROTECTIVE SUIT, NEOPRENE GLOVES ARE RECOMMENDED.

## SECTION IX - STORAGE AND HANDLING PRECAUTIONS

SAF-T-DATA* STORAGE COLOR CODE: WHITE (CORROSIVE)

STORAGE REQUIREMENTS
KEEP CONTAINER TIGHTLY CLOSED. STORE IN CORROSION-PROOF AREA. ISOLATE FROM INCOMPATIBLE MATERIALS. DO NOT STORE NEAR OXIDIZING MATERIALS.

CONTINUED ON PAGE: 7

## SECTION X - TRANSPORTATION DATA AND ADDITIONAL INFORMATION

DOMESTIC (D.O.T.)

PROPER SHIPPING NAME: HYDROCHLORIC ACID
HAZARD CLASS: CORROSIVE MATERIAL (LIQUID)
UN/NA: UN1789 REPORTABLE QUANTITY: 5000 LBS.
LABELS: CORROSIVE
REGULATORY REFERENCES: 49CFR 172.101; 173.263

INTERNATIONAL (I.M.O.)

PROPER SHIPPING NAME: HYDROCHLORIC ACID, SOLUTION
HAZARD CLASS: 8 I.M.O. PAGE: 8174
UN: UN1789 MARINE POLLUTANTS: NO PACKAGING GROUP: II
LABELS: CORROSIVE
REGULATORY REFERENCES: 49CFR 172.102; PART 176; IMO

AIR (I.C.A.O.)

PROPER SHIPPING NAME: HYDROCHLORIC ACID, SOLUTION
HAZARD CLASS: 8
UN: UN1789 PACKAGING GROUP: II
LABELS: CORROSIVE
REGULATORY REFERENCES: 49CFR 172.101; 173.6; PART 175; ICAO/IATA

U.S. CUSTOMS HARMONIZATION NUMBER: 2806100000

N/A = NOT APPLICABLE OR NOT AVAILABLE
N/E = NOT ESTABLISHED
---
THE INFORMATION IN THIS MATERIAL SAFETY DATA SHEET MEETS THE REQUIREMENTS OF THE UNITED STATES OCCUPATIONAL SAFETY AND HEALTH ACT AND REGULATIONS PROMULGATED THEREUNDER (29 CFR 1910.1200 ET. SEQ.) AND THE CANADIAN WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM. THIS DOCUMENT IS INTENDED ONLY AS A GUIDE TO THE APPROPRIATE PRECAUTIONARY HANDLING OF THE MATERIAL BY A PERSON TRAINED IN, OR SUPERVISED BY A PERSON TRAINED IN, CHEMICAL HANDLING. THE USER IS RESPONSIBLE FOR DETERMINING THE PRECAUTIONS AND DANGERS OF THIS CHEMICAL FOR HIS OR HER PARTICULAR APPLICATION. DEPENDING ON USAGE, PROTECTIVE CLOTHING INCLUDING EYE AND FACE GUARDS AND RESPIRATORS MUST BE USED TO AVOID CONTACT WITH MATERIAL OR BREATHING CHEMICAL VAPORS/FUMES.
EXPOSURE TO THIS PRODUCT MAY HAVE SERIOUS ADVERSE HEALTH EFFECTS. THIS CHEMICAL MAY INTERACT WITH OTHER SUBSTANCES. SINCE THE POTENTIAL USES

CONTINUED ON PAGE: 8

==========

ARE SO VARIED, BAKER CANNOT WARN OF ALL OF THE POTENTIAL DANGERS OF USE OR INTERACTION WITH OTHER CHEMICALS OR MATERIALS. BAKER WARRANTS THAT THE CHEMICAL MEETS THE SPECIFICATIONS SET FORTH ON THE LABEL.
BAKER DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR PURPOSE.
THE USER SHOULD RECOGNIZE THAT THIS PRODUCT CAN CAUSE SEVERE INJURY AND EVEN DEATH, ESPECIALLY IF IMPROPERLY HANDLED OR THE KNOWN DANGERS OF USE ARE NOT HEEDED. READ ALL PRECAUTIONARY INFORMATION. AS NEW DOCUMENTED GENERAL SAFETY INFORMATION BECOMES AVAILABLE, BAKER WILL PERIODICALLY REVISE THIS MATERIAL SAFETY DATA SHEET. IF YOU HAVE ANY QUESTIONS, PLEASE CALL CUSTOMER SERVICE (1-800-JTBAKER) FOR ASSISTANCE.
---
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APPROVED BY QUALITY ASSURANCE DEPARTMENT.

-- LAST PAGE --

# MATERIAL SAFETY DATA SHEET

**IDENTITY:** Methanol
**CAS NUMBER:** 67-56-1

## SECTION I

**Manufacturer:** Radian Corporation
8501 North Mopac Blvd.
P.O. Box 201088
Austin, TX 78720-1088

**Emergency Telephone Number:** (512) 454-4797

**Date Prepared:** September 10, 1992

## SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

| Hazardous Components | OSHA PEL | ACGIH TLV | Other Limits | % |
|---|---|---|---|---|
| Methanol | Transitional TWA 200ppm<br>Final TWA 200ppm<br>STEL 250ppm | TWA 200ppm<br>STEL 250ppm | --- | 100 |

## SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

**Boiling Point(degrees C):** 64.6 (148°F)

**Specific Gravity (Water=1):** 0.7913

**Vapor Pressure (mmHg):** 97 @ 20°C

**Melting Point(degrees C):** -98

**Vapor Density (Air=1):** 1.11

**Evaporation Rate (Butyl Acetate=1):** 5.9

**Solubility in Water:** Soluble

**Appearance and Odor:** Clear, colorless liquid, slight alcoholic odor.

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

**Flash Point:** 52°F (11°C)
**Method Used:** Closed Cup

**Flammable Limits**
**LEL:** 6.0% **UEL:** 36.5%

**Extinguishing Media:** Dry chemical, carbon dioxide or Halon extinguisher.

**Special Fire Fighting Procedures:** N/A

**Unusual Fire and Explosion Hazards:** Flashback along vapor trail may occur.

**********
The information contained herein is believed to be accurate and is supplied in good faith. Radian Corporation makes no warranty with respect to and assumes no legal responsibility for use of or reliance upon this information. Individuals receiving this data must exercise their own judgement in determining its suitability for a particular purpose.
**********

## SECTION V - REACTIVITY DATA

Stability - Unstable:
Stable: X

Conditions to Avoid: Heat, sparks or other sources of ignition.

Incompatible Materials: Acids, acid chlorides, acid anhydrides, oxidizing agents, reducing agents, and alkali metals.

Hazardous Decmp Pdts: Toxic fumes of carbon monoxide and carbon dioxide.

Hazardous Polymerization - May Occur:
Will Not Occur: X

Conditions to Avoid: N/A

## SECTION VI - HEALTH HAZARD DATA

Routes of Entry: Inhalation? Yes Skin? Yes Ingestion? Yes

Health Hazards: Exposure to Methanol may result in severe skin and eye irritation, blindness and narcosis. It can be absorbed through the skin.

Carcinogenicity: NTP? N/A IARC? N/A OSHA? N/A

Symptoms of Exposure: Exposure to Methanol may cause burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, vomiting, eye damage, convulsions, fatigue, drowsiness, and central nervous system depression.

Medical Conditions Aggravated by Exposure: N/A

Emergency and First Aid Procedures: If ingested, give victim large quantities of liquid and transport to a medical facility. In case of external exposure, wash affected areas with large amounts of water and transport to a medical facility. If breathing is disturbed, give artificial respiration while transporting to a medical facility.

## SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be Taken in Case Material is Released or Spilled: Remove all sources of ignition. Use absorbent paper to pick up all spilled material. If necessary, soak absorbent paper in an appropriate solvent such as toluene or alcohol to pick up remaining traces.

Waste Disposal Method: Waste materials should be disposed of under conditions which meet Federal, State, and Local environmental control regulations.

Precautions to be Taken in Handling and Storing: Store at 0°C.
Protect from light.

Other Precautions: N/A

## SECTION VIII - CONTROL MEASURES

Respiratory Protection: Avoid inhalation of vapors. Cartridge type respirator with organic vapor cartridges recommended.

Ventilation - Local Exhaust: Use with forced ventilation.
General Mechanical: Normal laboratory air exchange.
Special: N/A

Protective Gloves: Use two dissimilar types. PVC or Neoprene over latex.

Other Protective Clothing or Equipment: N/A

Work/Hygienic Practices: Only experienced personnel should be allowed to handle this material.

END

# Material Safety Data Sheet

From Genium's Reference Collection
Genium Publishing Corporation
1145 Catalyn Street
Schenectady, NY 12303-1836 USA
(518) 377-8855

GENIUM PUBLISHING CORP.

No. 624

NAPHTHALENE

Issued: November 1987

## SECTION 1. MATERIAL IDENTIFICATION

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**Material Name:** NAPHTHALENE

**Description (Origin/Uses):** Used as a moth repellant and in many industrial processes.

**Other Designations:** Naphthalin; Naphthene; Tar Camphor; $C_{10}H_8$; NIOSH *RTECS* No. QJ0525000; CAS No. 0091-20-3

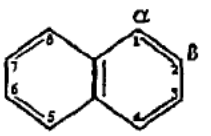
**Manufacturer:** Contact your supplier or distributor. Consult the latest edition of the *Chemicalweek Buyer's Guide* (Genium ref. 73) for a list of suppliers.

HMIS
H 2
F 2
R 0
PPG*
*See sect. 8

R 1
I 4
S 1
K 2

## SECTION 2. INGREDIENTS AND HAZARDS

| | % | EXPOSURE LIMITS |
|---|---|---|
| Naphthalene, CAS No. 0091-20-3 | ca 100 | IDLH* Level: 500 ppm<br>**ACGIH TLVs, 1987-88**<br>TLV-TWA: 10 ppm, 50 mg/m³<br>**OSHA PEL**<br>8-Hr TWA: 10 ppm, 50 mg/m³<br>**Toxicity Data****<br>Child, Oral, $LD_{Lo}$: 100 mg/kg<br>Man, Unknown, $LD_{Lo}$: 74 mg/kg<br>Rat, Oral, $LD_{50}$: 1250 mg/kg |




*Immediately dangerous to life and health
**See NIOSH *RTECS* for additional data with references to irritative, mutagenic, reproductive, and tumorigenic effects.

## SECTION 3. PHYSICAL DATA

**Boiling Point:** 424°F (218°C)
**Vapor Density (Air = 1):** 4.4
**Vapor Pressure:** 0.087 Torr at 77°F (25°C)
**Water Solubility:** Insoluble

**Specific Gravity ($H_2O$ = 1):** 1.162 at 68°F (20°C)
**Melting Point:** 176°F (80°C)
**Molecular Weight:** 128 Grams/Mole
**% Volatile by Volume:** ca 100

**Appearance and Odor:** White crystalline flakes; strong coal tar odor.

## SECTION 4. FIRE AND EXPLOSION DATA

| Flash Point and Method | Autoignition Temperature | Flammability Limits in Air | LOWER | UPPER |
|---|---|---|---|---|
| 174°F (79°C) OC; 190°F (88°C) CC | 979°F (526°C) | % by Volume | 0.9 | 5.9 |

**Extinguishing Media:** Use water spray, dry chemical, or carbon dioxide to fight fires involving naphthalene. **Caution:** Foam or direct water spray applied to molten naphthalene may cause extensive foaming.

**Unusual Fire or Explosion Hazards:** Naphthalene is a volatile solid that gives off flammable vapor when heated (as in fire situations). This vapor is much denser than air and will collect in enclosed or low-lying areas like sumps. In these areas an explosive air-vapor mixture may form, and extra caution is required to prevent any ignition sources from starting an explosion or fire.

**Special Fire-fighting Procedures:** Wear a self-contained breathing apparatus (SCBA) with a full facepiece operated in the pressure-demand or positive-pressure mode.

## SECTION 5. REACTIVITY DATA

Naphthalene is stable in closed containers at room temperature under normal storage and handling conditions. It does not undergo hazardous polymerization.

**Chemical Incompatibilities:** Naphthalene is incompatible with strong oxidizing agents, chromic anhydride, and mixtures of aluminum trichloride and benzoyl chloride.

**Conditions to Avoid:** Ignition sources like open flame, unprotected heaters, excessive heat, lighted tobacco products, and electric sparks must not occur in work areas where naphthalene vapor may become concentrated.

**Hazardous Products of Decomposition:** Toxic gases like carbon monoxide are produced during fire conditions. Irritating, flammable vapor forms below the melting point because even solid naphthalene has a significant vapor pressure.

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## SECTION 6. HEALTH HAZARD INFORMATION

Naphthalene is not listed as a carcinogen by the NTP, IARC, or OSHA.
**Summary of Risks:** Renal shutdown (kidney failure), hemolytic effects (breakdown of red blood cells), hematuria (blood in the urine), oliguria (low volume of urine), jaundice, eye damage, and depression of the central nervous system (CNS) are the primary health concerns associated with exposure to naphthalene. The ACGIH TLVs in section 2 are set to prevent eye damage. These recommended exposure limits may not be low enough to prevent blood changes in genetically hypersensitive individuals.
**Medical Conditions Aggravated by Long-Term Exposure:** Diseases of the blood, liver, and kidneys. Administer medical exams emphasizing these organs. **Target Organs:** Eyes, skin, kidneys, liver, blood (red blood cell effects), and CNS.
**Primary Entry:** Inhalation, skin contact. **Acute Effects:** Inhalation of naphthalene vapor causes excitement, confusion, headache, nausea, and loss of appetite. **Chronic Effects:** Increased incidence of cataracts.
**FIRST AID**
**Eye Contact:** Immediately flush eyes, including under the eyelids, gently but thoroughly with plenty of running water for at least 15 minutes to remove particles.
**Skin Contact:** Immediately wash the affected area with soap and water.
**Inhalation:** Remove victim to fresh air; restore and/or support his breathing as needed.
**Ingestion:** Call a poison control center. Never give anything by mouth to someone who is unconscious or convulsing. Administer a gastric lavage followed by saline catharsis. Monitor blood and electrolytic balance. Other sources recommend giving the victim several glasses of water to drink.

**GET MEDICAL HELP (IN PLANT, PARAMEDIC, COMMUNITY) FOR ALL EXPOSURES. Seek prompt medical assistance for further treatment, observation, and support after first aid.**

## SECTION 7. SPILL, LEAK, AND DISPOSAL PROCEDURES

**Spill/Leak:** Notify safety personnel, provide ventilation, and eliminate all ignition sources immediately. Cleanup personnel need protection against contact and inhalation of vapor (see sect. 8). Contain large spills and collect waste. Use nonsparking tools to place naphthalene into closable containers for disposal. Keep waste out of sewers, watersheds, and waterways.
**Waste Disposal:** Consider reclamation, recycling, or destruction rather than disposal in a landfill. Contact your supplier or a licensed contractor for detailed recommendations. Follow Federal, state, and local regulations.

**OSHA Designations**
Air Contaminant (29 CFR 1910.1000, Subpart Z)
**EPA Designations (40 CFR 302.4)**
RCRA Hazardous Waste, No. U165
CERCLA Hazardous Substance, Reportable Quantity: 100 lbs (45.4 kg)

## SECTION 8. SPECIAL PROTECTION INFORMATION

**Goggles:** Always wear protective eyeglasses or chemical safety goggles. Follow the eye- and face-protection guidelines of 29 CFR 1910.133. **Respirator:** Use a NIOSH-approved respirator per the *NIOSH Pocket Guide to Chemical Hazards* (Genium ref. 88) for the maximum-use concentrations and/or the exposure limits cited in section 2. Respirator usage must be in accordance with the OSHA regulations of 29 CFR 1910.134. IDLH or unknown concentrations require an SCBA with a full facepiece operated in the pressure-demand or positive-pressure mode. **Warning:** Air-purifying respirators will *not* protect workers in oxygen-deficient atmospheres.
**Other Equipment:** Wear impervious gloves, boots, aprons, gauntlets, etc., as required by the specific work environment to prevent skin contact. **Ventilation:** Install and operate general and local maximum explosion-proof ventilation systems of sufficient power to maintain airborne levels of naphthalene below the OSHA PEL standard cited in section 2. **Safety Stations:** Make eyewash stations, washing facilities, and safety showers available in areas of use and handling. **Contaminated Equipment:** Contact lenses pose a special hazard; soft lenses may absorb irritants, and all lenses concentrate them. Do *not* wear contact lenses in any work area. Remove and launder contaminated clothing before wearing it again; clean this material from shoes and equipment.
**Comments:** Practice good personal hygiene; always wash thoroughly after using this material. Keep this material off of your clothing and equipment. Avoid transferring this material from hands to mouth while eating, drinking, or smoking. Do *not* smoke, eat, or drink in any immediate work area. Avoid inhalation of vapor!

## SECTION 9. SPECIAL PRECAUTIONS AND COMMENTS

**Storage Segregation:** Store naphthalene in a cool, dry, well-ventilated area away from chemical incompatibles (see sect. 5).
**Special Handling/Storage:** Protect containers from physical damage. All bulk storage facilities must be built with an explosion-proof design. All containers used in shipping/transferring operations must be electrically grounded to prevent static sparks. Use monitoring equipment to measure the extent of vapor present in any storage facility containing naphthalene because of potential fire and explosion hazards.
**Comments:** All operations with naphthalene must be done carefully to prevent accidental ignition of its flammable/explosive vapor. If the weather is warm, more naphthalene vapor forms and the potential for explosion increases. Do *not* smoke in any use or storage area!
**Transportation Data (49 CFR 172.101-2)**

| | |
|---|---|
| **DOT Shipping Name:** Naphthalene | **DOT ID No.** UN1334 |
| **DOT Hazard Class:** ORM-A | **IMO Label:** Flammable Solid |
| **IMO Class:** 4.1 | **DOT Label:** None |

**References:** 1, 2, 12, 73, 84-94, 103, PII

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Approvals
Indust. Hygiene/Safety
Medical Review



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J.T.BAKER INC., 222 RED SCHOOL LANE, PHILLIPSBURG, NJ 08865

## SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: NITRIC ACID
COMMON SYNONYMS: HYDROGEN NITRATE; AZOTIC ACID
CHEMICAL FAMILY: INORGANIC ACIDS
FORMULA: HNO3
FORMULA WT.: 63.01
CAS NO.: 7697-37-2
NIOSH/RTECS NO.: QU5775000
PRODUCT USE: LABORATORY REAGENT
PRODUCT CODES: 4801,9597,5113,9602,5371,9598,9605,9600,9616,6901,9606,9601

## PRECAUTIONARY LABELING

BAKER SAF-T-DATA* SYSTEM

| | | | |
|---|---|---|---|
| HEALTH | - | 3 | SEVERE (POISON) |
| FLAMMABILITY | - | 0 | NONE |
| REACTIVITY | - | 3 | SEVERE (OXIDIZER) |
| CONTACT | - | 4 | EXTREME (CORROSIVE) |

LABORATORY PROTECTIVE EQUIPMENT

GOGGLES & SHIELD; LAB COAT & APRON; VENT HOOD; PROPER GLOVES

### U.S. PRECAUTIONARY LABELING

POISON DANGER

SPILLAGE MAY CAUSE FIRE OR LIBERATE DANGEROUS GAS. HARMFUL IF INHALED AND MAY CAUSE DELAYED LUNG INJURY. STRONG OXIDIZER. CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE. LIQUID AND VAPOR CAUSE SEVERE BURNS. MAY BE FATAL IF SWALLOWED OR INHALED.
KEEP FROM CONTACT WITH CLOTHING AND OTHER COMBUSTIBLE MATERIALS. DO NOT STORE NEAR COMBUSTIBLE MATERIALS. DO NOT GET IN EYES, ON SKIN, ON CLOTHING. DO NOT BREATHE VAPOR. KEEP IN TIGHTLY CLOSED CONTAINER. USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING. IN CASE OF FIRE, USE WATER SPRAY. IN CASE OF SPILL, NEUTRALIZE WITH SODA ASH OR LIME.

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## PRECAUTIONARY LABELING (CONTINUED)

### INTERNATIONAL LABELING

AVOID CONTACT WITH EYES. AFTER CONTACT WITH SKIN, WASH IMMEDIATELY WITH PLENTY OF WATER. KEEP CONTAINER TIGHTLY CLOSED.

SAF-T-DATA* STORAGE COLOR CODE: YELLOW (REACTIVE)

## SECTION II - COMPONENTS

| COMPONENT | CAS NO. | WEIGHT % | OSHA/PEL | ACGIH/TLV |
|---|---|---|---|---|
| NITRIC ACID | 7697-37-2 | 65-71 | 2 PPM | 2 PPM |
| WATER | 7732-18-5 | 29-35 | N/E | N/E |

## SECTION III - PHYSICAL DATA

BOILING POINT: 121 C (249 F)
(AT 760 MM HG)

VAPOR PRESSURE (MMHG): 9
(20 C)

MELTING POINT: -42 C (-43 F)
(AT 760 MM HG)

VAPOR DENSITY (AIR=1): N/A

SPECIFIC GRAVITY: 1.41
(H2O=1)

EVAPORATION RATE: N/A

SOLUBILITY(H2O): COMPLETE (100%)

% VOLATILES BY VOLUME: 100
(21 C)

PH: N/A

ODOR THRESHOLD (P.P.M.): N/A

PHYSICAL STATE: LIQUID

COEFFICIENT WATER/OIL DISTRIBUTION: N/A

APPEARANCE & ODOR: CLEAR, COLORLESS LIQUID. SUFFOCATING ODOR.

CONTINUED ON PAGE: 3

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (CLOSED CUP): N/A NFPA 704M RATING: 3-0-0 OXY

AUTOIGNITION TEMPERATURE: N/A

FLAMMABLE LIMITS: UPPER - N/A LOWER - N/A

FIRE EXTINQUISHING MEDIA
USE WATER SPRAY.

SPECIAL FIRE-FIGHTING PROCEDURES
FIREFIGHTERS SHOULD WEAR PROPER PROTECTIVE EQUIPMENT AND SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN POSITIVE PRESSURE MODE. MOVE EXPOSED CONTAINERS FROM FIRE AREA IF IT CAN BE DONE WITHOUT RISK. USE WATER TO KEEP FIRE-EXPOSED CONTAINERS COOL; DO NOT GET WATER INSIDE CONTAINERS.

UNUSUAL FIRE & EXPLOSION HAZARDS
STRONG OXIDIZER. CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE. REACTS WITH MOST METALS TO PRODUCE HYDROGEN GAS, WHICH CAN FORM AN EXPLOSIVE MIXTURE WITH AIR. A VIOLENT EXOTHERMIC REACTION OCCURS WITH WATER. SUFFICIENT HEAT MAY BE PRODUCED TO IGNITE COMBUSTIBLE MATERIALS.

TOXIC GASES PRODUCED
OXIDES OF NITROGEN, HYDROGEN

EXPLOSION DATA-SENSITIVITY TO MECHANICAL IMPACT
NONE IDENTIFIED.

EXPLOSION DATA-SENSITIVITY TO STATIC DISCHARGE
NONE IDENTIFIED.

## SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE (TLV/TWA): 5 MG/M3 (2 PPM)

SHORT-TERM EXPOSURE LIMIT (STEL): 10 MG/M3 (4 PPM)

PERMISSIBLE EXPOSURE LIMIT (PEL): 5 MG/M3 (2 PPM)

CONTINUED ON PAGE: 4

## SECTION V - HEALTH HAZARD DATA (CONTINUED)

TOXICITY OF COMPONENTS

| | | |
|---|---|---|
| INTRAPERITONEAL MOUSE LD50 FOR WATER | 190 | G/KG |
| INTRAVENOUS MOUSE LD50 FOR WATER | 25 | G/KG |

CARCINOGENICITY: NTP: NO IARC: NO Z LIST: NO OSHA REG: NO

CARCINOGENICITY
NONE IDENTIFIED.

REPRODUCTIVE EFFECTS
NONE IDENTIFIED.

EFFECTS OF OVEREXPOSURE

INHALATION: SEVERE IRRITATION OR BURNS OF RESPIRATORY SYSTEM, COUGHING, DIFFICULT BREATHING, CHEST PAINS, PULMONARY EDEMA, LUNG INFLAMMATION, UNCONSCIOUSNESS, AND MAY BE FATAL

SKIN CONTACT: SEVERE IRRITATION OR BURNS

EYE CONTACT: SEVERE IRRITATION OR BURNS

SKIN ABSORPTION: NONE IDENTIFIED

INGESTION: NAUSEA, VOMITING, SEVERE BURNS, ULCERATION - MOUTH, THROAT, STOMACH, AND MAY BE FATAL

CHRONIC EFFECTS: DAMAGE TO LUNGS, TEETH

TARGET ORGANS
EYES, SKIN, MUCOUS MEMBRANES, RESPIRATORY SYSTEM, LUNGS, TEETH, GI TRACT

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE
DAMAGED SKIN, EYE DISORDERS, CARDIOPULMONARY DISEASE, LUNG DISEASE

PRIMARY ROUTES OF ENTRY
INHALATION, INGESTION, EYE CONTACT, SKIN CONTACT

CONTINUED ON PAGE: 5

## SECTION V - HEALTH HAZARD DATA (CONTINUED)

EMERGENCY AND FIRST AID PROCEDURES

INGESTION: CALL A PHYSICIAN. IF SWALLOWED, DO NOT INDUCE VOMITING. IF CONSCIOUS, GIVE WATER, MILK, OR MILK OF MAGNESIA.

INHALATION: IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN.

SKIN CONTACT: IN CASE OF CONTACT, IMMEDIATELY FLUSH SKIN WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. WASH CLOTHING BEFORE RE-USE.

EYE CONTACT: IN CASE OF EYE CONTACT, IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES.

SARA/TITLE III HAZARD CATEGORIES AND LISTS

ACUTE: YES CHRONIC: YES FLAMMABILITY: YES PRESSURE: NO REACTIVITY: NO

| | | |
|---|---|---|
| EXTREMELY HAZARDOUS SUBSTANCE: | YES | CONTAINS NITRIC ACID (RQ = 1,000 LBS, TPQ = 1,000 LBS) |
| CERCLA HAZARDOUS SUBSTANCE: | YES | CONTAINS NITRIC ACID (RQ = 1000 LBS) |
| TOXIC CHEMICALS: | YES | CONTAINS NITRIC ACID |
| GENERIC CLASS: | | C16 |
| TSCA INVENTORY: | YES | |

## SECTION VI - REACTIVITY DATA

STABILITY: STABLE HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS TO AVOID: HEAT, LIGHT, MOISTURE

INCOMPATIBLES: STRONG BASES, CARBONATES, SULFIDES, CYANIDES, COMBUSTIBLE MATERIALS, ORGANIC MATERIALS, STRONG REDUCING AGENTS, MOST COMMON METALS, POWDERED METALS, CARBIDES, AMMONIUM HYDROXIDE, WATER, ALCOHOLS

DECOMPOSITION PRODUCTS: OXIDES OF NITROGEN, HYDROGEN

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## SECTION VII - SPILL & DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN THE EVENT OF A SPILL OR DISCHARGE
WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING. STOP LEAK IF YOU CAN DO SO WITHOUT RISK. VENTILATE AREA. NEUTRALIZE SPILL WITH SODA ASH OR LIME. WITH CLEAN SHOVEL, CAREFULLY PLACE MATERIAL INTO CLEAN, DRY CONTAINER AND COVER; REMOVE FROM AREA. FLUSH SPILL AREA WITH WATER.
KEEP COMBUSTIBLES (WOOD, PAPER, OIL, ETC.) AWAY FROM SPILLED MATERIAL.

J. T. BAKER NEUTRASORB(R) OR TEAM* "LOW NA+" ACID NEUTRALIZERS ARE RECOMMENDED FOR SPILLS OF THIS PRODUCT.

DISPOSAL PROCEDURE
DISPOSE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL ENVIRONMENTAL REGULATIONS.

EPA HAZARDOUS WASTE NUMBER: D001, D002 (IGNITABLE, CORROSIVE WASTE)

## SECTION VIII - INDUSTRIAL PROTECTIVE EQUIPMENT

VENTILATION: USE GENERAL OR LOCAL EXHAUST VENTILATION TO MEET TLV REQUIREMENTS.

RESPIRATORY PROTECTION: RESPIRATORY PROTECTION REQUIRED IF AIRBORNE CONCENTRATION EXCEEDS TLV. AT CONCENTRATIONS UP TO 100 PPM, A CHEMICAL CARTRIDGE RESPIRATOR WITH ACID CARTRIDGE IS RECOMMENDED. ABOVE THIS LEVEL, A SELF-CONTAINED BREATHING APPARATUS IS ADVISED.

EYE/SKIN PROTECTION: SAFETY GOGGLES AND FACE SHIELD, UNIFORM, PROTECTIVE SUIT, NEOPRENE GLOVES ARE RECOMMENDED.

## SECTION IX - STORAGE AND HANDLING PRECAUTIONS

SAF-T-DATA* STORAGE COLOR CODE: YELLOW (REACTIVE)

STORAGE REQUIREMENTS
KEEP CONTAINER TIGHTLY CLOSED. STORE SEPARATELY AND AWAY FROM FLAMMABLE AND COMBUSTIBLE MATERIALS. ISOLATE FROM INCOMPATIBLE MATERIALS. KEEP PRODUCT OUT OF LIGHT.

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## SECTION X - TRANSPORTATION DATA AND ADDITIONAL INFORMATION

DOMESTIC (D.O.T.)

PROPER SHIPPING NAME: NITRIC ACID (OVER 40%)
HAZARD CLASS: OXIDIZER
UN/NA: UN2031 REPORTABLE QUANTITY: 1000 LBS.
LABELS: OXIDIZER, CORROSIVE
REGULATORY REFERENCES: 49CFR 172.101; 173.268

INTERNATIONAL (I.M.O.)

PROPER SHIPPING NAME: NITRIC ACID
HAZARD CLASS: 8 I.M.O. PAGE: 8107
UN: UN2031 MARINE POLLUTANTS: NO PACKAGING GROUP: II
LABELS: CORROSIVE
REGULATORY REFERENCES: 49CFR 172.102; PART 176; IMO

AIR (I.C.A.O.)

PROPER SHIPPING NAME: NITRIC ACID
HAZARD CLASS: 8
UN: UN2031 PACKAGING GROUP: II
LABELS: CORROSIVE
REGULATORY REFERENCES: 49CFR 172.101; 173.6; PART 175; ICAO/IATA

U.S. CUSTOMS HARMONIZATION NUMBER: 28080000000

N/A = NOT APPLICABLE OR NOT AVAILABLE
N/E = NOT ESTABLISHED

THE INFORMATION IN THIS MATERIAL SAFETY DATA SHEET MEETS THE REQUIREMENTS OF THE UNITED STATES OCCUPATIONAL SAFETY AND HEALTH ACT AND REGULATIONS PROMULGATED THEREUNDER (29 CFR 1910.1200 ET. SEQ.) AND THE CANADIAN WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM. THIS DOCUMENT IS INTENDED ONLY AS A GUIDE TO THE APPROPRIATE PRECAUTIONARY HANDLING OF THE MATERIAL BY A PERSON TRAINED IN, OR SUPERVISED BY A PERSON TRAINED IN, CHEMICAL HANDLING. THE USER IS RESPONSIBLE FOR DETERMINING THE PRECAUTIONS AND DANGERS OF THIS CHEMICAL FOR HIS OR HER PARTICULAR APPLICATION. DEPENDING ON USAGE, PROTECTIVE CLOTHING INCLUDING EYE AND FACE GUARDS AND RESPIRATORS MUST BE USED TO AVOID CONTACT WITH MATERIAL OR BREATHING CHEMICAL VAPORS/FUMES.
EXPOSURE TO THIS PRODUCT MAY HAVE SERIOUS ADVERSE HEALTH EFFECTS. THIS CHEMICAL MAY INTERACT WITH OTHER SUBSTANCES. SINCE THE POTENTIAL USES

CONTINUED ON PAGE: 8

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ARE SO VARIED, BAKER CANNOT WARN OF ALL OF THE POTENTIAL DANGERS OF USE OR INTERACTION WITH OTHER CHEMICALS OR MATERIALS. BAKER WARRANTS THAT THE CHEMICAL MEETS THE SPECIFICATIONS SET FORTH ON THE LABEL.
BAKER DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR PURPOSE.
THE USER SHOULD RECOGNIZE THAT THIS PRODUCT CAN CAUSE SEVERE INJURY AND EVEN DEATH, ESPECIALLY IF IMPROPERLY HANDLED OR THE KNOWN DANGERS OF USE ARE NOT HEEDED. READ ALL PRECAUTIONARY INFORMATION. AS NEW DOCUMENTED GENERAL SAFETY INFORMATION BECOMES AVAILABLE, BAKER WILL PERIODICALLY REVISE THIS MATERIAL SAFETY DATA SHEET. IF YOU HAVE ANY QUESTIONS, PLEASE CALL CUSTOMER SERVICE (1-800-JTBAKER) FOR ASSISTANCE.
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# Material Safety Data Sheet

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GENIUM PUBLISHING CORP.

No. 683

POLYCHLORINATED BIPHENYLS (PCBs)

Issued: November 1988

## SECTION 1. MATERIAL IDENTIFICATION

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**Material Name:** POLYCHLORINATED BIPHENYLS (PCBs)

**Description (Origin/Uses):** Commercial PCBs are mixtures that were once widely manufactured by combining chlorine gas, iron filings, and biphenyls. Their high stability contributes to their intended commercial applications and their accidental, long-term adverse environmental and health effects. PCBs are useful as insulators in electrical equipment because they are electrically nonconductive. Their distribution has been limited since 1976. The Aroclor PCB codes identify PCBs by type. The first two digits of a code indicate whether the PCB contains chlorinated biphenyls (12), chlorinated terphenyls, (54), or both (25, 44); the last two digits indicate the approximate percentage of chlorine. Found in insulating liquid, synthetic rubber, plasticizers, flame retardants, floor tile, printer's ink, paper and fabric coatings, brake linings, paints, automobile body sealants, asphalt, adhesives, electrical capacitors, electrical transformers, vacuum pumps, gas-transmission turbines, heat-transfer fluids, hydraulic fluids, lubricating and cutting oil, copying paper, carbonless copying paper, and fluorescent light ballasts.

**Synonym:** Chlorodiphenyls

**Other Designations (Producer, Trade Name, Nation):** Monsanto, Aroclor® (USA, Great Britain); Bayer, Clophen® (German Democratic Republic); Prodelec, Phenoclor®, Pyralene® (France); Kanegafuchi, Kanechlor®; Mitsubishi, Santotherm® (Japan); Caffaro, Fenclor® (Italy).

| Trade Name | CAS No. | *RTECS* No. | Trade Name | CAS No. | *RTECS* No. |
|---|---|---|---|---|---|
| Aroclors | 01336-36-3 | TQ1350000 | Aroclor 1242 | 53469-21-9 | TQ1356000 |
| Aroclor 1016 | 12674-11-2 | TQ1351000 | Aroclor 1248 | 12672-29-6 | TQ1358000 |
| Aroclor 1221 | 11104-28-2 | TQ1352000 | Aroclor 1254 | 11097-69-1 | TQ1360000 |
| Aroclor 1232 | 11141-16-5 | TQ1354000 | Aroclor 1260 | 11096-82-5 | TQ1362000 |

| HMIS | |
|---|---|
| H 1 | R 1 |
| F 1 | I 3 |
| R 0 | S 1 |
| PPG* | K 1 |

## SECTION 2. INGREDIENTS AND HAZARDS/EXPOSURE LIMITS

**PCB-42% Chlorine/Aroclor 1242**
CAS No. 53469-21-9
OSHA PEL (Skin*)
8-Hr TWA: 1 mg/m³
ACGIH TLV (Skin*), 1988-89
TLV-TWA: 1 mg/m³

**PCB-54% Chlorine/Aroclor 1254**
CAS No. 11097-69-1
OSHA PEL (Skin*)
8-Hr TWA: 0.5 mg/m³
ACGIH TLV (Skin*), 1988-89
TLV-TWA: 0.5 mg/m³

**All PCBs/Aroclors**
CAS No. 1336-36-3
NIOSH REL 1977
10-Hour TWA: 0.001mg/m³
Toxicity Data**
Mouse, Oral, $LD_{50}$: 1900 mg/kg

*This material can be absorbed through intact skin, which contributes to overall exposure.
**See NIOSH, *RTECS* (Genium ref. 90), at the locations specified in section 1 for additional data with references to tumorigenic, reproductive, mutagenic, and irritative effects.

## SECTION 3. PHYSICAL DATA

**Boiling Point:** Ranges from 527°F (275°C) to 725°F (385°C)
**Solubility in Water (%):** Insoluble
**Pour Point:** Ranges from -31°F (-35°C) to 87.8°F (31°C)
**% Volatile by Volume:** Ranges from 1.2 to 1.6
**Molecular Weight (Average):** Aroclor 1242: 258 Grams/Mole
Aroclor 1254: 326 Grams/Mole

**Appearance and Odor:** Clear to light yellow mobile oil to a sticky resin; a sweet "aromatic" odor. As the percentage of chlorine increases, the PCB becomes thicker and heavier; e.g., Aroclor 1254 is more viscous than Aroclor 1242.

## SECTION 4. FIRE AND EXPLOSION DATA

| Flash Point* | Autoignition Temperature: Not Found | LEL: Not Found | UEL: Not Found |
|---|---|---|---|

**Extinguishing Media:** Use water spray/fog, carbon dioxide ($CO_2$), dry chemical, or "alcohol" foam to extinguish fires that involve polychlorinated biphenyls. Although it is very difficult to ignite PCBs, they are often mixed with more flammable materials (oils, solvents, etc.) **Unusual Fire or Explosion Hazards:** If a transformer containing PCBs is involved in a fire, its owner may be required to report the incident to appropriate authorities. Consult and follow all pertinent Federal, state, and local regulations. **Special Fire-fighting Procedures:** Wear a self-contained breathing apparatus (SCBA) with a full facepiece operated in the pressure-demand or positive-pressure mode; fire fighters must also wear a complete set of protective clothing. **Comments:** The hazards of PCB fires are associated with the possibility of their being released into the environment where they and their products of degeneration can pose serious long-term health risks. These potential problems are heightened by the PCBs' resistance to biological and chemical degradation and by the possibility that they will contaminate underground water systems (see sect. 5)

*Ranges from 284°F (140°C) to 392°F (200°C).

## SECTION 5. REACTIVITY DATA

**Stability/Polymerization:** Polychlorinated biphenyls are very stable materials. Hazardous polymerization cannot occur.
**Chemical Incompatibilities:** PCBs can react dangerously with sodium or potassium. These reactions are part of an industrial process used to destroy PCBs; however, people have been killed by explosions at PCB treatment, storage, and disposal sites. **Conditions to Avoid:** Limit human exposure to PCBs to the lowest possible level; especially avoid contact with skin. **Hazardous Products of Decomposition:** Thermal-oxidative degradation of PCBs can produce toxic gases such as carbon monoxide, chlorine, chlorinated aromatic fragments, phenolics, aldehydes, and hydrogen chloride. Incomplete combustion of PCBs produces toxic compounds such as polychlorinated dibenzofuran (PCDF, the major product of combustion), and polychlorinated dibenzo-*p*-dioxin (PCDD or dioxin).

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## SECTION 6. HEALTH HAZARD INFORMATION

**Carcinogenicity:** The EPA lists PCBs as carcinogens, and the IARC classifies them as probable human carcinogens (group 2B). **Summary of Risks:** Effects of accidental exposure to PCBs include acneform eruptions; eye discharge; swelling of the upper eyelids and hyperemia of the conjunctiva; hyperpigmentation of skin, nails, and mucous membrane; chloroacne; distinctive hair follicles; fever; hearing difficulties; limb spasms; headache; vomiting; and diarrhea. PCBs are potent liver toxins that can be absorbed through unbroken skin in hazardous amounts without immediately discernible pain or discomfort. Severe health effects can develop later. In experimental animals, prolonged or repeated exposure to PCBs by any route results in liver damage at levels that are less than those reported to have caused cancer in rodents. **Medical Conditions Aggravated by Long-Term Exposure:** None reported. **Target Organs:** Skin, eyes, eyelids, blood, liver. **Primary Entry:** Inhalation, skin contact/absorption. **Acute Effects:** Skin and eye irritation, acneform dermatitis, nausea, vomiting, abdominal pain, jaundice, liver damage. **Chronic Effects:** Possible cancer (evidence of this is inconclusive); reproductive effects (jaundice, excessive secretion of tears, dermal chromopexy); and hepatitis. **FIRST AID:** **Eyes.** Immediately flush eyes, including under the eyelids, gently but thoroughly with flooding amounts of running water for 15 minutes. **Skin.** Rinse exposed skin with flooding amounts of water; wash with soap and water. **Inhalation.** Remove the exposed person to fresh air; restore and/or support breathing as needed. Have qualified medical personnel administer oxygen as required. **Ingestion.** Induce vomiting by sticking your finger to the back of the exposed person's throat. Have him or her drink 1 to 2 glasses of milk or water. **Get medical help (in plant, paramedic, community) for all exposures.** Seek prompt medical assistance for further treatment, observation, and support after first aid. **Note to Physician:** PCBs are poorly metabolized, soluble in lipids, and they accumulate in tissues or organs rich in lipids. Liver function tests can help to determine the extent of body damage in exposed persons. If electrical equipment containing PCBs arcs over, the PCBs or other hydrocarbon dielectric fluids may decompose and give off hydrochloric acid (HCl), a potent respiratory irritant.

## SECTION 7. SPILL, LEAK, AND DISPOSAL PROCEDURES

**Spill/Leak:** *Treat any accidental release of PCBs as an emergency. An SPCCP (spill-prevention control and countermeasure plan) must be formulated before spills or leaks occur.* PCBs are resistant to biodegradation, soluble in lipids, and chemically stable; as such they have become significant contaminants of global ecosystems. Releases of PCBs require immediate, competent, professional response from trained personnel. *Each release situation is unique and requires a specifically designed cleanup response.* General recommendations include adhering to Federal regulations (40 CFR Part 761). Notify safety personnel, evacuate nonessential personnel, ventilate the spill area, and contain the PCBs. All wastes, residues, and contaminated cleanup equipment from the incident are subject to EPA requirements (40 CFR 761). Consult your attorney or appropriate regulatory officials for information about reporting requirements and disposal procedures. **Waste Disposal:** Contact your hazardous waste disposal firm or a licensed contractor for detailed recommendations, especially when PCBs are unexpectedly discovered. Follow Federal, state, and local regulations. PCBs are biomagnified in the food chain; i.e., their concentration increases at each link. The disposal of PCBs or of PCB-contaminated materials is strictly regulated; violations of applicable laws can result in fines, lawsuits, and negative publicity. **Warning:** Accidental spills of PCBs that may affect water supplies must be reported to Coast Guard personnel at the National Response Center, telephone (202) 426-2675.

**OSHA Designations**
Listed as an Air Contaminant (29 CFR 1910.1000 Subpart Z).
**EPA Designations (40 CFR 302.4)**
CERCLA Hazardous Substance, Reportable Quantity: 10 lbs (4.54 kg), per the Clean Water Act (CWA), §§ 311 (b) (4) and 307 (a).

## SECTION 8. SPECIAL PROTECTION INFORMATION

**Goggles:** Always wear protective eyeglasses or chemical safety goggles. Where splashing of PCBs is possible, wear a full face shield. Follow OSHA eye- and face-protections regulations (29 CFR 1910.133). **Respirator:** Wear a NIOSH-approved respirator per Genium reference 88 for the maximum-use concentrations and/or exposure limits cited in section 2. Follow OSHA respirator regulations (29 CFR 1910.134). For emergency or nonroutine operations (leaks or cleaning reactor vessels and storage tanks), wear an SCBA. **Warning:** Air-purifying respirators will *not* protect workers in oxygen-deficient atmospheres. **Other:** Wear impervious gloves, boots, aprons, and gauntlets, etc., to prevent any contact of PCBs with your skin. **Ventilation:** Install and operate general and local maximum, explosion-proof ventilation systems powerful enough to maintain airborne levels of this material below the OSHA PEL standards cited in section 2. Local exhaust ventilation is preferred because it prevents dispersion of the contamination into the general work area by eliminating it at its source. Consult the latest edition of Genium reference 103 for detailed recommendations. **Safety Stations:** Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work areas. **Contaminated Equipment:** Contact lenses pose a special hazard; soft lenses may absorb irritants, and all lenses concentrate them. Do not wear contact lenses in any work area. Remove contaminated clothing and launder it before wearing it again; clean this material from your shoes and equipment. Heavily soiled clothing must be properly discarded in a manner consistent with applicable regulations. **Comments:** Practice good personal hygiene; always wash thoroughly after using this material and before eating, drinking, smoking, using the toilet, or applying cosmetics. Keep it off your clothing and equipment. Avoid transferring it from your hands to your mouth while eating, drinking, or smoking. Do *not* eat, drink, or smoke in work areas.

## SECTION 9. SPECIAL PRECAUTIONS AND COMMENTS

**Storage Segregation:** Store PCBs in closed containers in a cool, dry, well-ventilated area. Protect containers from physical damage. **Special Handling/Storage:** All storage facilities must have adequate containment systems (dikes; elevated, nonporous holding platforms; retaining walls) to prevent any major release of PCBs into the environment. Carefully design and implement these extra precautions now; do not wait until you have to respond to an accidental release of this material.

**Transportation Data** (49 CFR 172.101-2; PCBs were the first materials to be directly regulated by Congress by way of TSCA in 1976.)

**DOT Shipping Name:** Polychlorinated Biphenyls
**DOT Hazard Class:** ORM-E
**ID No.** UN 23115
**DOT Packaging Requirements:** 49 CFR 173.510

**IMO Shipping Name:** Polychlorinated Biphenyls
**IMO Hazard Class:** 9
**IMDG Packaging Group:** II

**References:** 1, 6, 26, 38, 84-94, 100, 101, 116, 117, 120, 122.

**Prepared by** PJ Igoe, BS; **Industrial Hygiene Review:** DJ Wilson, CIH; **Medical Review:** W Silverman, MD

**Technical Review:** Northeast Analytical, Inc. (PCB and VOC Specialists), Schenectady, New York, Telephone: (518) 346-4592

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# Material Safety Data Sheet

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GENIUM PUBLISHING CORP.

No. 317
TOLUENE
(Revision D)

Issued: August 1979
Revised: April 1986

## SECTION 1. MATERIAL IDENTIFICATION

MATERIAL NAME: TOLUENE

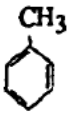
OTHER DESIGNATIONS: Methyl Benzene, Methyl Benzol, Phenylmethane, Toluol, $C_7H_8$, CAS #0108-88-3

MANUFACTURER/SUPPLIER: Available from many suppliers, including:
Allied Corp., PO Box 2064R, Morristown, NJ 07960; Telephone: (201) 455-4400
Ashland Chemical Co., Industrial Chemicals & Solvents Div., PO Box 2219, Columbus, OH; Telephone: (614) 889-3844

HMIS
H: 2
F: 3
R: 0
PPE*
*See sect. 8

R 1
I 3
S 2
K 4

## SECTION 2. INGREDIENTS AND HAZARDS

| | % | HAZARD DATA |
|---|---|---|
| Toluene  | ca 100 | 8-hr TLV: 100 ppm, or 375 mg/m$^3$* (Skin)**<br>Man, Inhalation, TCLo: 100 ppm: Psychotropic***<br>Rat, Oral, $LD_{50}$: 5000 mg/kg<br>Rat, Inhalation, LCLo: 4000 ppm/4 hrs.<br>Rabbit, Skin, $LD_{50}$: 14 gm/kg<br>Human, Eye: 300 ppm |

* Current (1985-86) ACGIH TLV. The OSHA PEL is 200 ppm with an acceptable ceiling concentration of 300 ppm and an acceptable maximum peak of 500 ppm/10 minutes.
** Skin designation indicates that toluene can be absorbed through intact skin and contribute to overall exposure.
*** Affects the mind.

## SECTION 3. PHYSICAL DATA

Boiling Point ... 231°F (111°C)
Vapor Pressure @ 20°C, mm Hg ... 22
Water Solubility @ 20°C, wt. % ... 0.05
Vapor Density (Air = 1) ... 3.14
Evaporation Rate (BuAc = 1) ... 2.24
Specific Gravity ($H_2O$ = 1) ... 0.866
Melting Point ... -139°F (-95°C)
Percent Volatile by Volume ... ca 100
Molecular Weight ... 92.15

Appearance and odor: Clear, colorless liquid with a characteristic aromatic odor. The odor is detectable to most individuals in the range of 10 to 15 ppm. Because olfactory fatigue occurs rapidly upon exposure to toluene, odor is not a good warning property.

## SECTION 4. FIRE AND EXPLOSION DATA

| Flash Point and Method | Autoignition Temp. | Flammability Limits In Air | LOWER | UPPER |
|---|---|---|---|---|
| 40°F (4°C) CC | 896°F (480°C) | % by Volume | 1.27 | 7.1 |

EXTINGUISHING MEDIA: Carbon dioxide, dry chemical, alcohol foam. Do not use a solid stream of water because the stream will scatter and spread the fire. Use water spray to cool tanks/containers that are exposed to fire and to disperse vapors.
UNUSUAL FIRE/EXPLOSION HAZARDS: This OSHA class IB flammable liquid is a dangerous fire hazard. It is a moderate fire hazard when exposed to oxidizers, heat, sparks, or open flame. Vapors are heavier than air and may travel a considerable distance to an ignition source and flash back.
SPECIAL FIRE-FIGHTING PROCEDURES: Fire fighters should wear self-contained breathing apparatus with full facepiece operated in a positive-pressure mode when fighting fires involving toluene.

## SECTION 5. REACTIVITY DATA

CHEMICAL INCOMPATIBILITIES: Toluene is stable in closed containers at room temperature under normal storage and handling conditions. It does not undergo hazardous polymerization. This material is incompatible with strong oxidizing agents, dinitrogen tetraoxide, silver perchlorate, tetranitromethane, and uranium hexafluoride. Contact with these materials may cause fire or explosion. Nitric acid and toluene, especially in the presence of sulfuric acid, will produce nitrated compounds that are dangerously explosive.

CONDITIONS TO AVOID: Avoid exposure to sparks, open flame, hot surfaces, and all sources of heat and ignition. Toluene will attack some forms of plastics, rubber, and coatings. Thermal decomposition or burning produces carbon dioxide and/or carbon monoxide.

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No. 317 4/86 TOLUENE

## SECTION 6. HEALTH HAZARD INFORMATION | TLV

Toluene is not considered a carcinogen by the NTP, IARC, or OSHA. SUMMARY OF RISKS: Vapors of toluene may cause irritation of the eyes, nose, upper respiratory tract, and skin. Exposure to 200 ppm for 8 hours causes mild fatigue, weakness, confusion, lacrimation (tearing) and paresthesia (a sensation of prickling, tingling, or creeping on the skin that has no objective cause). Exposure to higher concentrations may cause headache, nausea, dizziness, dilated pupils, and euphoria, and, in severe cases, may cause unconsciousness and death. The liquid is irritating to the eyes and skin. Contact with the eyes may cause transient corneal damage, conjunctival irritation, and burns if not promptly removed. Repeated and/or prolonged contact with the skin may cause drying and cracking. It may be absorbed through the skin in toxic amounts. Ingestion causes irritation of the gastrointestinal tract and may cause effects resembling those from inhalation of the vapor. Chronic overexposure to toluene may cause reversible kidney and liver injury. FIRST AID: EYE CONTACT: Immediately flush eyes, including under eyelids, with running water for at least 15 minutes. Get medical attention if irritation persists.* SKIN CONTACT: Immediately flush skin (for at least 15 minutes) while removing contaminated shoes and clothing. Wash exposed area with soap and water. Get medical attention if irritation persists or if a large area has been exposed.* INHALATION: Remove victim to fresh air. Restore and/or support breathing as required. Keep victim warm and quiet. Get medical help.* INGESTION: Give victim 1 to 2 glasses of water or milk. Contact a poison control center. Do not induce vomiting unless directed to do so. Transport victim to a medical facility. Never give anything by mouth to a person who is unconscious or convulsing. * GET MEDICAL ASSISTANCE = In plant, paramedic, community. Get medical help for further treatment, observation, and support after first aid, if indicated.

## SECTION 7. SPILL, LEAK, AND DISPOSAL PROCEDURES

SPILL/LEAK: Notify safety personnel of large spills or leaks. Remove all sources of heat and ignition. Provide maximum explosion-proof ventilation. Limit access to spill area to necessary personnel only. Remove leaking containers to safe place if feasible. Cleanup personnel need protection against contact with liquid and inhalation of vapor (see sect. 8).
WASTE DISPOSAL: Absorb small spills with paper towel or vermiculite. Contain large spills and collect if feasible, or absorb with vermiculite or sand. Place waste solvent or absorbent into closed containers for disposal using nonsparking tools. Liquid can be flushed with water to an open holding area for handling. Do not flush to sewer, watershed, or waterway.
COMMENTS: Place in suitable container for disposal by a licensed contractor or burn in an approved incinerator. Consider reclaiming by distillation. Contaminated absorbent can be buried in a sanitary landfill. Follow all Federal, state, and local regulations. TLm 96: 100-10 ppm. Toluene is designated as a hazardous waste by the EPA. The EPA (RCRA) HW No. is U220 (40 CFR 261). The reportable quantity (RQ) is 1000 lbs/454 kg (40 CFR 117).

## SECTION 8. SPECIAL PROTECTION INFORMATION

Provide general and local exhaust ventilation to meet TLV requirements. Ventilation fans and other electrical service must be nonsparking and have an explosion-proof design. Exhaust hoods should have a face velocity of at least 100 lfm (linear feet per minute) and be designed to capture heavy vapor. For emergency or nonroutine exposures where the TLV may be exceeded, use an organic chemical cartridge respirator if concentration is less than 200 ppm and an approved canister gas mask or self-contained breathing apparatus with full facepiece if concentration is greater than 200 ppm.
Safety glasses or splash goggles should be worn in all work areas. Neoprene gloves, apron, face shield, boots, and other appropriate protective clothing and equipment should be available and worn as necessary to prevent skin and eye contact. Remove contaminated clothing immediately and do not wear it until it has been properly laundered.

Eyewash stations and safety showers should be readily available in use and handling areas.

Contact lenses pose a special hazard; soft lenses may absorb irritants and all lenses concentrate them.

## SECTION 9. SPECIAL PRECAUTIONS AND COMMENTS

STORAGE SEGREGATION: Store in a cool, dry, well-ventilated area away from oxidizing agents, heat, sparks, or open flame. Storage areas must meet OSHA requirements for class IB flammable liquids. Use metal safety cans for handling small amounts. Protect containers from physical damage. Use only with adequate ventilation. Avoid contact with eyes, skin, or clothing. Do not inhale or ingest. Use caution when handling this compound because it can be absorbed through intact skin in toxic amounts. SPECIAL HANDLING/STORAGE: Ground and bond metal containers and equipment to prevent static sparks when making transfers. Do not smoke in use or storage areas. Use nonsparking tools. ENGINEERING CONTROLS: Preplacement and periodic medical exams emphasizing the liver, kidneys, nervous system, lungs, heart, and blood should be provided. Workers exposed to concentrations greater than the action level (50 ppm) should be examined at least once a year. Use of alcohol can aggravate the toxic effects of toluene.
COMMENTS: Emptied containers contain product residues. Handle accordingly!
Toluene is designated as a hazardous substance by the EPA (40 CFR 116). DOT Classification: Flammable liquid. UN1294.
Data Source(s) Code: 1-9, 12, 16, 20, 21, 24, 26, 34, 81, 82. CR

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Approvals J.O. Rodriguez, 11/86.
Indust. Hygiene/Safety DW 10-86
Medical Review Oct 86

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# Material Safety Data Sheet

From Genium's Reference Collection
Genium Publishing Corporation
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No. 312
TRICHLOROETHYLENE
(Revision E)

Issued: July 1979
Revised: August 1987

## SECTION 1. MATERIAL IDENTIFICATION

23

MATERIAL NAME: TRICHLOROETHYLENE

DESCRIPTION (Origin/Uses): Prepared from *sym*-tetrachloroethane by way of eliminating HCl by boiling with lime. Used to manufacture organic chemicals, pharmaceuticals; in degreasing and dry cleaning; and as a solvent for fats, waxes, rubbers, oils, paints, varnishes, ethers, and cellulose esters.

OTHER DESIGNATIONS: Ethylene Trichloride; TCE; Trichloroethene; 1,1,2-Trichloroethylene; $C_2HCl_3$; NIOSH *RTECS* #KX4550000; CAS #0079-01-6

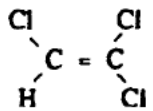
MANUFACTURER/SUPPLIER: Available from several suppliers, including: Dow Chemical USA, 2020 Dow Center, Midland, MI 48640; Telephone: (517) 636-1000; (800) 258-CHEM

COMMENTS: Trichloroethylene is a toxic solvent and a suspected occupational carcinogen.

| HMIS | | | |
|---|---|---|---|
| H | 2 | | |
| F | 1 | R | 1 |
| R | 1 | I | 3 |
| PPE* | | S | 1 |
| * See sect. 8 | | K | 0 |

## SECTION 2. INGREDIENTS AND HAZARDS

| Ingredients | % | HAZARD DATA |
|---|---|---|
| Trichloroethylene, CAS #0079-01-6; NIOSH *RTECS* #KX4550000 | 100 | ACGIH Values 1987-88<br>TLV-TWA*: 50 ppm, 270 mg/m$^3$<br>TLV-STEL**: 200 ppm, 1080 mg/m$^3$<br>OSHA PEL 1986***<br>8-Hr TWA: 100 ppm<br>Ceiling: 200 ppm<br>NIOSH REL 1986<br>10-Hr TWA: 25 ppm<br>TOXICITY DATA<br>Human, Oral, $LD_{Lo}$: 7 g/kg<br>Human, Inhalation, $TC_{Lo}$: 6900 mg/m$^3$ (10 Min)<br>Human, Inhalation, $TC_{Lo}$: 160 ppm/83 Min<br>Human, Inhalation, $TD_{Lo}$: 812 mg/kg |



* The TLV-TWA is set to control subjective complaints such as headache, fatigue, and irritability.

** The TLV-STEL is set to prevent incoordination and other beginning anesthetic effects from TCE. These levels should provide a wide margin of safety in preventing liver injury.

*** The OSHA PEL is 300 ppm for 5 minutes in any 2 hours.

## SECTION 3. PHYSICAL DATA

Boiling Point ... 188.6°F (87°C)
Vapor Pressure ... 58 Torr at 68°F (20°C)
Water Solubility ... Insoluble
Vapor Density (Air = 1) ... 4.53

Evaporation Rate ... Not Listed
Specific Gravity ... 1.4649 at 68°F (20°C)
Melting Point ... -120.64°F (-84.8°C)
Molecular Weight ... 131.40 Grams/Mole

Appearance and odor: Colorless, nonflammable mobile liquid; sweetish odor like chloroform.

COMMENTS: TCE is highly soluble in lipids. A high vapor pressure at room temperature provides the potential for TCE vapors to contaminate use areas.

## SECTION 4. FIRE AND EXPLOSION DATA

| Flash Point and Method | Autoignition Temperature | Flammability Limits in Air | LOWER | UPPER |
|---|---|---|---|---|
| Not Listed | 770°F (410°C) | % by Volume | 8% | 10.5% |

Flammable at higher temperatures. Use dry chemical, carbon dioxide, alcohol foam, or other extinguishing agents suitable for the surrounding fire.

OSHA Flammability Class (29 CFR 1910.106): Not Regulated

Hydrochloric acid and phosgene: [illegible] fighters who lack the proper respiratory equipment may experience incoordination and impaired judgment.

DOT Flammability Class (49 CFR 173.115): Not Regulated

## SECTION 5. REACTIVITY DATA

Trichloroethylene is stable. Hazardous polymerization can occur under certain circumstances (see Conditions to Avoid and Comments, below).

CHEMICAL INCOMPATIBILITIES include magnesium or aluminum powder, NaOH, KOH, or other strong alkaline materials. Reactions with alkaline materials may lead to the formation of dangerous explosive mixtures of chloroacetylenes.

CONDITIONS TO AVOID. When TCE is heated (as in the case with vapor degreasers) or exposed to sunlight, it requires extra stabilization against oxidation, degradation, and polymerization. It is slowly decomposed by light when moist.

PRODUCTS OF HAZARDOUS DECOMPOSITION include hydrochloric acid and phosgene under certain conditions at elevated temperatures.

COMMENTS: TCE is stable under normal handling and storage conditions, and hazardous polymerization is not expected to occur. However, failure of the stabilizer at elevated temperatures or other extreme conditions may allow polymerization to take place..

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## SECTION 6. HEALTH HAZARD INFORMATION

Trichloroethylene is listed as a carcinogen by the NTP, IARC, and OSHA. NIOSH recommends that trichloroethylene be treated as an occupational carcinogen. IARC carcinogenic results are animal suspect, animal positive, and human indefinite. SUMMARY OF RISKS: Moderate exposures to TCE cause symptoms similar to those of alcohol inebriation. Higher concentrations cause narcotic effects. Ventricular fibrillation has been cited as the cause of death following heavy exposures. TCE-induced hepato cellular carcinomas have been detected in mice during tests conducted by the National Cancer Institute (*Chem & Eng News* 54 [April 5, 1976]:4). Organ systems affected by overexposure to TCE are the central nervous system (euphoria, analgesia, anesthesia), degeneration of the liver and kidneys, the lungs (tachypnea), heart (arrhythmia) and skin (irritation, vesication, and paralysis of fingers when immersed in liquid TCE). Contact with the liquid defats the skin, causing topical dermatitis. Certain people appear to experience synergistic effects from TCE exposure concomitant with exposure to caffeine, alcohol, and other drugs. When combined with alcohol intake, toxic effects are increased and may cause a red, blotchy facial and upper body rash commonly called "degreaser's flush." Other reported symptoms of TCE exposure include abnormal fatigue, headache, irritability, gastric disturbances, and intolerance to alcohol. Toxic effects from testing of TCE on humans include hallucination, distorted perception, somnolence (general depressed activity), and jaundice. TARGET ORGANS: Respiratory system, central nervous system, heart, liver, kidneys, and skin. PRIMARY ENTRY: Ingestion, inhalation, skin contact. ACUTE EFFECTS: Headache, vertigo, visual disturbance, tremors, nausea, vomiting, dermatitis, dizziness, drowsiness, and irritation to the eyes, nose, and throat. CHRONIC EFFECTS: None Reported. MEDICAL CONDITIONS AGGRAVATED BY LONG-TERM EXPOSURE: Diseases of the liver, kidneys, lungs, and central nervous system. FIRST AID: EYE CONTACT: Immediately flush eyes, including under the eyelids, gently but thoroughly with plenty of running water for at least 15 minutes. Get medical help.* SKIN CONTACT: Wash thoroughly with soap and water. Remove and launder contaminated clothing before wearing it again; clean material from shoes and equipment. Get medical help.* INHALATION: Remove victim to fresh air; restore and/or support his breathing as needed. Do not give adrenalin to the victim. Get medical help.* INGESTION: Call a poison control center. Never give anything by mouth to someone who is unconscious or convulsing. A professional decision regarding whether or not to induce vomiting is required. Do not give adrenalin to the victim. Get medical help.*

*GET MEDICAL ASSISTANCE = IN PLANT, PARAMEDIC, COMMUNITY. Get prompt medical assistance for further treatment, observation, and support after first aid.

COMMENTS: Workers' responses to TCE vary significantly because of many factors, including age, health status, nutrition, and intake of alcohol, caffeine, and medicines. Do not use these substances before, during, or after exposure to TCE. If a worker displays any of the symptoms of exposure to TCE, thoroughly investigate all the possible contributing factors to determine, if possible, how much the work environment levels of TCE are responsible.

## SECTION 7. SPILL, LEAK, AND DISPOSAL PROCEDURES

SPILL/LEAK: Inform safety personnel of any trichloroethylene spill or leak and evacuate the area for large spills. Cleanup personnel must use respiratory and liquid contact protection. Adequate ventilation must be provided. Confine the spilled TCE to as small an area as possible. Do not allow it to run off to sewers or open waterways. Pick up spilled TCE with a vacuum cleaner or an absorbent such as vermiculite.

DISPOSAL: Consider reclamation, recycling, or destruction rather than disposal in a landfill.

Trichloroethylene is designated as a hazardous substance by the EPA (40 CFR 116.4).

Trichloroethylene is reported in the 1983 EPA TSCA Inventory.

EPA Hazardous Waste Number (40 CFR 261.33): U228

EPA Reportable Quantity (40 CFR 117.3): 1000 lbs (454 kgs)

Aquatic Toxicity Rating, TLm 96: Not Listed

## SECTION 8. SPECIAL PROTECTION INFORMATION

GOGGLES: Always wear protective eyeglasses or chemical safety goggles. Follow the eye and face protection guidelines of 29 CFR 1910.133. GLOVES: Wear impervious gloves. RESPIRATOR: Use a NIOSH-approved respirator per the *NIOSH Guide to Chemical Hazards* (Genium ref. 88) for the maximum-use concentrations and/or the exposure limits cited in section 2. Follow the respirator guidelines in 29 CFR 1910.134. Any detectable concentration of TCE requires an SCBA, full facepiece, and pressure-demand/positive-pressure modes. WARNING: Air-purifying respirators will not protect workers from oxygen-deficient atmospheres. OTHER EQUIPMENT: Wear rubber boots, aprons, and other suitable body protection appropriate to the existing work environment. VENTILATION: Install and operate general and local exhaust ventilation systems of sufficient power to maintain airborne concentrations of TCE below the OSHA PEL standards cited in section 2. SAFETY STATIONS: Make eyewash stations, washing facilities, and safety showers available in areas of use and handling. Contact lenses pose a special hazard; soft lenses may absorb irritants, and all lenses concentrate them. OTHER SPECIAL MODIFICATIONS IN THE WORKPLACE: Because of the unresolved controversy about the carcinogenic status of TCE, all existing personal protective equipment and engineering technology should be used to prevent any possibility of worker contact with this material.

COMMENTS: Practice good personal hygiene. Keep material off of your clothes and equipment. Avoid transfer of material from hands to mouth while eating, drinking, or smoking. Adhere to the sanitation requirements of 29 CFR 1910.141 and 29 CFR 1910.142.

## SECTION 9. SPECIAL PRECAUTIONS AND COMMENTS

STORAGE SEGREGATION: Prevent TCE from coming into contact with strong caustics such as NaOH; KOH; chemically active metal like Ba, Li, Na, Mg, Ti; and powdered aluminum or magnesium in acidic solutions. SPECIAL HANDLING/STORAGE: Store this material in a cool, dry, well-ventilated area. Avoid elevated temperatures because products of toxic and corrosive decomposition from TCE may form. Monitor the level of any stabilizer component that may be added to the TCE. (Consult the technical data from the supplier to determine the specifics of any added stabilizer.) If applicable, follow the supplier's recommendation concerning proper rotation of stock, shelf-life requirements, and levels of stabilizers.

ENGINEERING CONTROLS IN THE WORKPLACE: Avoid collecting aluminum fines (very small particles) or chips in a TCE vapor degreaser. Monitor TCE stabilizer levels regularly. Only trained personnel should operate vapor degreasers.

TRANSPORTATION DATA (per 49 CFR 172.101-2):

DOT Hazard Class: ORM-A | DOT ID No. UN1710 | IMO Class: 6.1

IMO Label: St. Andrew's Cross (X)* | DOT Shipping Name: Trichloroethylene | DOT Label: None

* Harmful - Stow away from foodstuffs (IMO Label, Materials of Class 6.1 Packaging Group III).

References: 1-9, 12, 14, 21, 73, 87-94. PJ

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Approvals JO Recchiuto

Indust. Hygiene/Safety [illegible] 11-18-87

Medical Review M. L. O'Hara



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*Material Safety Data Sheets Collection:*

Sheet No. 311
Methyl Chloroform

Issued: 11/75 Revision: F, 3/92 Errata: 6/92

## Section 1. Material Identification

38

**Methyl Chloroform ($C_2H_3Cl_3$) Description:** Derived by catalytic addition of hydrogen chloride to 1,1-dichloroethylene or by re-fluxing chlorine monoxide with carbon tetrachloride and chloroethane. Available in technical and solvent grades which differ only in the amount of stabilizer added to prevent metal parts corrosion. Used as a solvent for oils, waxes, tars, cleaning precision instruments, and pesticides; as a component of inks and drain cleaners; in degreasing metals, and textile processing. In recent years, methyl chloroform has found widespread use as a substitute for carbon tetrachloride.

**Other Designations:** CAS No. 71-55-6, α-trichloroethane; Inhibisol; 1,1,1-trichloroethane; Strobane.

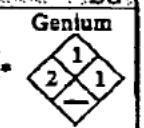
**Manufacturer:** Contact your supplier or distributor. Consult latest *Chemical Week Buyers' Guide*[73] for a suppliers list.

**Cautions:** Methyl chloroform is a skin, eye, and respiratory tract irritant and can become narcotic with an anesthetic effect at high concentrations.

* Data on skin absorption via methyl chloroform is conflicting.[133] Some studies show definite absorption where others don't.

| | |
|---|---|
| R | 1 |
| I | 2 |
| S | 2* |
| K | 1 |

Genium



HMIS
H 2
F 1
R 1
PPG*
* Sec. 8

## Section 2. Ingredients and Occupational Exposure Limits

Methyl chloroform, ca 92 to 97%*

**1990 OSHA PELs**
8-hr TWA: 350 ppm (1900 mg/m³)
15-min STEL: 450 ppm (2450 mg/m³)

**1990 IDLH Level**
1000 ppm

**1990 NIOSH REL**
15-min Ceiling: 350 ppm (1900 mg/m³)

**1991-92 ACGIH TLVs**
TWA: 350 ppm (1910 mg/m³)
STEL: 450 ppm (2460 mg/m³)

**1990 DFG (Germany) MAKs**
TWA: 200 ppm (1080 mg/m³)
Half-life: 2 hr to shift length
Peak Exposure Limit: 1000 ppm/30 min (average value)/2 per shift

**1985-86 Toxicity Data†**
Human, oral, $TD_{Lo}$: 670 mg/kg produced diarrhea, nausea, and vomiting
Human, inhalation, $LC_{Lo}$: 27 g/m³/10 min; toxic effects not yet reviewed
Man, eye: 450 ppm/8 hr produced irritation
Rat, inhalation, $TC_{Lo}$: 2100 ppm/24 hr for 14 days prior to mating and from 1 to 20 days of pregnancy produced specific developmental abnormalities of the musculoskelatal system

* Methyl chloroform usually contains inhibitors (3 to 8%) to prevent corrosion of aluminum and some other metals. Typical inhibitors are nitromethane, butylene oxide, secondary butyl alcohols, ketones, and glycol diesters.
† See NIOSH, *RTECS* (KJ2975000), for additional irritation, mutation, reproductive, and toxicity data.

## Section 3. Physical Data

**Boiling Point:** 165 °F (75 °C)
**Freezing Point:** -22 °F (-30 °C)
**Vapor Pressure:** 100 mm Hg at 68 °F (20 °C)
**Vapor Density (air = 1):** 4.55
**Corrosivity:** Readily corrodes aluminum and its alloys
**Refraction Index:** 1.43765 at 69.8 °F (21 °C)
**Viscosity:** 0.858 cP at 68 °F (20 °C)
**Molecular Weight:** 133.42
**Density:** 1.3376 at 68/39.8 °F (20/4 °C)
**Water Solubility:** Insoluble
**Other Solubilities:** Soluble in acetone, alcohol, ether, benzene, carbon tetrachloride, and carbon disulfide
**% in Saturated Air:** 16.7% at 77 °F (25 °C)
**Relative Evaporation Rate (butyl acetate = 1):** 12.8

**Appearance and Odor:** Colorless liquid with a sweetish, chloroform-like odor. The odor threshold is 44 ppm.

## Section 4. Fire and Explosion Data

| Flash Point: None (in conventional CC tests) | Autoignition Temperature: 932 °F (500 °C) | LEL: 7% v/v | UEL: 16% v/v |
|---|---|---|---|

**Extinguishing Media:** *Noncombustible liquid* whose *vapor* burns in the presence of excess oxygen or a strong ignition source. For small fires, use dry chemical or carbon dioxide ($CO_2$). For large fires use fog or regular foam. If these materials are unavailable, a water spray may be used but be aware that water reacts slowly with methyl chloroform to release hydrochloric acid.

**Unusual Fire or Explosion Hazards:** Vapors are heavier than air and may travel to a strong ignition source and flash back. Air/vapor mixtures may explode when heated. Container may explode in heat of fire. Exposure to open flames or arc welding can produce hydrogen chloride and phosgene.

**Special Fire-fighting Procedures:** Methyl chloroform's burning rate is 2.9 mm/min. Since fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full facepiece operated in pressure-demand or positive-pressure mode. Structural firefighters' protective clothing provides limited protection. Wear clothing specifically recommended by the manufacturer for use in fires involving methyl chloroform. Apply cooling water to container sides until after fire is extinguished. Stay away from ends of tanks. Isolate area for 1/2 mile if fire involves tank, truck, or rail car. Be aware of runoff from fire control methods. Do not release to sewers or waterways.

## Section 5. Reactivity Data

**Stability/Polymerization:** Methyl chloroform is stable at room temperature in closed containers under normal storage and handling conditions. Hazardous polymerization can occur in contact with aluminum trichloride.

**Chemical Incompatibilities:** Methyl chloroform is incompatible with sodium hydroxide, nitrogen tetroxide, oxygen (liquid or gas), strong oxidizers, and chemically active metals like aluminum, zinc, and magnesium powders; reacts violently with caustics to form dichloroacetylene; reacts slowly with water to form hydrochloric acid; forms shock sensitive mixtures with potassium; and polymerizes in contact with aluminum trichloride.

**Conditions to Avoid:** Exposure to moisture, strong ignition sources, and arc-welding units, and contact with incompatibles.

**Hazardous Products of Decomposition:** Thermal oxidative decomposition (temperatures >500 °F, contact with hot metals, or under UV rays) of methyl chloroform can produce carbon dioxide ($CO_2$) and toxic dichloroacetylene, hydrogen chloride, and phosgene gases.

## Section 6. Health Hazard Data

**Carcinogenicity:** The IARC (Class 3, inadequate evidence),[164] NTP,[142] and OSHA[166] do not list methyl chloroform as a carcinogen.

**Summary of Risks:** Methyl chloroform is considered one of the least toxic of the liquid chlorinated hydrocarbons. It is irritating to eyes, skin, and respiratory tract. Although low in systemic toxicity, methyl chloroform is an anesthetic capable of causing death at high concentrations (>15,000 ppm), generally in poorly ventilated, enclosed areas. Quick and complete recovery is observed after prompt removal of unconscious persons from area of exposure. Like many other solvents, methyl chloroform sensitizes the heart to epinephrine (blood pressure-raising hormone) and may induce cardiac arrhythmias and arrest.

**Medical Conditions Aggravated by Long-Term Exposure:** None reported.

**Target Organs:** Skin, eyes, central nervous (CNS) and cardiovascular (CVS) systems.

*Continue on next page*

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## Section 6. Health Hazard Data, *continued*

**Primary Entry Routes:** Inhalation, skin contact. **Acute Effects:** Methyl chloroform defats the skin causing irritation, redness, dryness, and scaling. Contact with eyes produces irritation and mild conjunctivitis. Vapor inhalation can cause headache, dizziness, equilibrium disturbances, and in high concentrations may lead to CNS depression, unconsciousness, and coma. During a 60-min exposure period these effects are observed: 100 ppm is the observed odor threshold, at 500 ppm there is obvious odor and decreased reaction time, 1000 ppm causes slight equilibrium loss, at 5000 ppm there is definite incoordination, and 20,000 ppm produces surgical strength anesthesia with possible death. Mild liver and kidney dysfunction may occur after CNS depression recovery. Although unlikely, if ingestion occurs, symptoms include nausea, vomiting, diarrhea, and possible esophageal burns. The acute lethal human dose is ~500 to 5000 mg/kg. **Chronic Effects:** None reported.

**FIRST AID**

**Eyes:** Gently lift eyelids and flush immediately and continuously with flooding amounts of water until transported to an emergency medical facility. *Do not* allow victim to rub or keep eyes tightly shut. Consult a physician immediately. **Skin:** *Quickly* remove contaminated clothing. Rinse with flooding amounts of water for at least 15 min. Wash exposed area with soap and water. For reddened or blistered skin, consult a physician. **Inhalation:** Remove exposed person to fresh air and support breathing as needed. **Ingestion:** Never give anything by mouth to an unconscious or convulsing person. Contact a poison control center, and unless otherwise advised, have that *conscious and alert* person drink 1 to 2 glasses of water to dilute. When deciding whether to induce vomiting, carefully consider amount ingested, time since ingestion, and availability of medical help. If large amounts are recently ingested (absorption into the body is not yet likely to have occurred), and medical help or transportation to a medical facility is not readily available, induce vomiting. Otherwise, vomiting is not recommended since aspiration of vomitus can produce chemical pneumonitis. **Note to Physicians:** Do not use adrenaline or sympathomimetic amines in treatment because of the increased cardiac sensitivity involved.

## Section 7. Spill, Leak, and Disposal Procedures

**Spill/Leak:** Immediately notify safety personnel, isolate area, deny entry, and stay upwind. Shut off all ignition sources. If possible without risk, shut off leak. Cleanup personnel should wear fully encapsulating vapor-protective clothing. For small spills, take up with earth, sand, vermiculite, or other absorbent, noncombustible material. Using nonsparking tools, place in suitable containers for disposal or reclamation. For large spills, dike far ahead of liquid spill for later disposal or reclamation. Report any release in excess of 1000 lb. Follow applicable OSHA regulations (29 CFR 1910.120).
**Environmental Transport:** In water, methyl chloroform's half-life is hours to weeks depending on wind and mixing conditions. It is very persistent in groundwater. On land it volatilizes due to its high vapor pressure and leaches extensively. When released to the atmosphere, methyl chloroform can be transported long distances and returned to earth via rain. It is slowly degraded by reaction with hydroxyl radicals and has a half-life of 6 months to 25 years. The Natural Resources Defenses Council reported recently that methyl chloroform depletes ozone.
**Ecotoxicity Values:** *Pimephales promelas* (fathead minnow), $LC_{50}$: 52.8 mg/L/96 hr; *Poecilia reticulata* (guppy), $LC_{50}$: 133 ppm/7 day.
**Disposal:** Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, state, and local regulations.

**EPA Designations**
Listed as a RCRA Hazardous Waste (40 CFR 261.33): No. U226
Listed as a CERCLA Hazardous Substance* (40 CFR 302.4): Reportable Quantity (RQ), 1000 lb (454 kg) [* per RCRA, Sec. 3001, CWA, Sec. 307(a), and CAA, Sec. 112]
SARA Extremely Hazardous Substance (40 CFR 355): Not listed
Listed as a SARA Toxic Chemical (40 CFR 372.65)

**OSHA Designations**
Listed as an Air Contaminant (29 CFR 1910.1000, Table Z-1-A)

## Section 8. Special Protection Data

**Goggles:** Wear splash-proof, protective chemical safety goggles or faceshields, per OSHA eye- and face-protection regulations (29 CFR 1910.133). Because contact lens use in industry is controversial, establish your own policy.
**Respirator:** Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. For emergency or nonroutine operations (cleaning spills, reactor vessels, or storage tanks), wear an SCBA. *Warning! Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.* If respirators are used, OSHA requires a respiratory protection program that includes at least: training, fit-testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.
**Other:** Wear chemically protective gloves, boots, aprons, and gauntlets to prevent repeated or prolonged skin contact. Viton and butyl rubber [with breakthrough times (BTs) of >8 hr and 4 to 7.9 hr, respectively] are recommended materials for protective gear. *Do not use* neoprene, polyvinyl chloride (PVC), natural rubber, or polyethylene because these materials have a BT of <1 hr.
**Ventilation:** Provide general and local exhaust (in some cases, explosion-proof) ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2). Local exhaust ventilation is preferred since it prevents contaminant dispersion into work area by controlling it at its source.[103]
**Safety Stations:** Make available in the work area emergency eyewash stations, safety/quick-drench showers, and washing facilities.
**Contaminated Equipment:** Separate contaminated work clothes from street clothes. Launder contaminated work clothing before wearing. Remove this material from your shoes and clean personal protective equipment.
**Comments:** Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

## Section 9. Special Precautions and Comments

**Storage Requirements:** Prevent physical damage to containers. Store in cool, dry, well-ventilated (use pressure-vacuum ventilation) area away from ignition sources, arc-welding operations, and incompatibles (Sec. 5). Regularly monitor inhibitor levels. *Do not* store in aluminum containers or use pressure-spraying equipment when methyl chloroform is involved.
**Engineering Controls:** To reduce potential health hazards, use sufficient dilution or local exhaust ventilation to control airborne contaminants and to maintain concentrations at the lowest practical level. To prevent static sparks, electrically ground and bond all equipment used in methyl chloroform manufacturing, use, storage, transfer, and shipping.
**Administrative Controls:** Consider preplacement and periodic medical exams of exposed workers that emphasize CNS, CVS, liver and skin.

**Transportation Data (49 CFR 172.101, .102)**

**DOT Shipping Name:** 1,1,1-Trichloroethane
**DOT Hazard Class:** ORM-A
**ID No.:** UN2831
**DOT Label:** None
**DOT Packaging Exceptions:** 173.505
**DOT Packaging Requirements:** 173.605

**IMO Shipping Name:** 1,1,1-Trichloroethane
**IMO Hazard Class:** 6.1
**ID No.:** UN2831
**IMO Label:** St. Andrews Cross
**IMDG Packaging Group:** III

*MSDS Collection* References: 26, 38, 73, 89, 100, 101, 103, 124, 126, 127, 132, 133, 136, 148, 153, 159, 162, 163, 164
Prepared by: M Gannon, BA; Industrial Hygiene Review: D Wilson, CIH; Medical Review: AC Darlington, MPH, MD; Edited by: JR Stuart, MS



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# Material Safety Data Sheet

From Genium's Reference Collection
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GENIUM PUBLISHING CORP.

No. 318

XYLENE (Mixed Isomers)
(Revision D)
Issued: November 1980
Revised: August 1988

## SECTION 1. MATERIAL IDENTIFICATION

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**Material Name:** XYLENE (Mixed Isomers)

**Description (Origin/Uses):** Used as a raw material for the production of benzoic acid, phthalic anhydride, isophthalic and terephthalic acids and their dimethyl esters in the manufacture of polyester fibers; in sterilizing catgut; with Canadian balsam as oil-immersion in microscopy; and as a cleaning agent in microscopic techniques.

**Other Designations:** Dimethylbenzene; Xylol; $C_8H_{10}$; CAS No. 1330-20-7

**Manufacturer:** Contact your supplier or distributor. Consult the latest edition of the *Chemicalweek Buyers' Guide* (Genium ref. 73) for a list of suppliers.

**Comments:** Although there are three different isomers of xylene (*ortho*, *meta*, and *para*), the health and physical hazards of all three isomers are very similar. This MSDS is written for a xylene mixture of all three isomers, which is usually commercial xylene.

NFPA: 3 / 2 / 0 / -

| HMIS | | | |
|---|---|---|---|
| H | 2 | R | 1 |
| F | 3 | I | 3 |
| R | 0 | S | 2 |
| PPG* | | K | 3 |

*See sect. 8

## SECTION 2. INGREDIENTS AND HAZARDS

| | % | EXPOSURE LIMITS |
|---|---|---|
| Xylene (Mixed Isomers), CAS No. 1330-20-7* | ** | IDLH*** Level: 1000 ppm |
| *o*-Xylene, CAS No. 0095-47-6<br>*m*-Xylene, CAS No. 0108-38-3<br>*p*-Xylene, CAS No. 0106-42-3 | | **OSHA PEL**<br>8-Hr TWA: 100 ppm, 435 mg/m³<br>**ACGIH TLVs, 1987-88**<br>TLV-TWA: 100 ppm, 435 mg/m³<br>TLV-STEL: 150 ppm, 655 mg/m³ |
| **Check with your supplier to determine if there are additions, contaminants, or impurities (such as benzene) that are present in reportable quantities per 29 CFR 1910.<br>***Immediately dangerous to life and health.<br>**** See NIOSH, *RTECS* (No. ZE2100000), for additional data with references to reproductive, irritative, and mutagenic effects. | | **Toxicity Data****<br>Human, Inhalation, $TC_{Lo}$: 200 ppm<br>Man, Inhalation, $LC_{Lo}$: 10000 ppm/6 Hrs<br>Rat, Oral, $LD_{50}$: 4300 mg/kg |

## SECTION 3. PHYSICAL DATA

**Boiling Point:** 275°F to 293°F (135°C to 145°C)*
**Melting Point:** -13°F (-25°C)
**Evaporation Rate:** 0.6 Relative to BuAc = 1
**Specific Gravity ($H_2O$ = 1):** 0.86

**Water Solubility (%):** Insoluble
**Molecular Weight:** 106 Grams/Mole
**% Volatile by Volume:** Ca 100
**Vapor Pressure:** 7 to 9 Torrs at 68°F (20°C)
**Vapor Density (Air = 1):** 3.7

**Appearance and Odor:** A clear liquid; aromatic hydrocarbon odor.

*Materials with wider and narrower boiling ranges are commercially available.

## SECTION 4. FIRE AND EXPLOSION DATA

| Flash Point and Method | Autoignition Temperature | Flammability Limits in Air | LOWER | UPPER |
|---|---|---|---|---|
| 81°F to 90°F (27°C to 32°C) | 867°F (464°C) | % by Volume | 1% | 7% |

**Extinguishing Media:** Use foam, dry chemical, or carbon dioxide. Use water sprays to reduce the rate of burning and to cool containers.

**Unusual Fire or Explosion Hazards:** Xylene vapor is heavier than air and may travel a considerable distance to a low-lying source of ignition and flash back.

**Special Fire-fighting Procedures:** Wear a self-contained breathing apparatus (SCBA) with a full facepiece operated in the pressure-demand or positive-pressure mode.

## SECTION 5. REACTIVITY DATA

Xylene is stable in closed containers during routine operations. It does not undergo hazardous polymerization.

**Chemical Incompatibilities:** This material may react dangerously with strong oxidizers.

**Conditions to Avoid:** Avoid any exposure to sources of ignition and to strong oxidizers.

**Hazardous Products of Decomposition:** Carbon monoxide (CO) may be evolved during xylene fires.

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## SECTION 6. HEALTH HAZARD INFORMATION

Xylene is not listed as a carcinogen by the IARC, NTP, or OSHA.

**Summary of Risks:** Liquid xylene is a skin irritant and causes erythema, dryness, and defatting; prolonged contact may cause blistering. Inhaling xylene can depress the central nervous system (CNS), and ingesting it can result in gastrointestinal disturbance; and possibly hematemesis (vomiting blood). Effects on the eyes, kidneys, liver, lungs, and the CNS are also reported. **Medical Conditions Aggravated by Long-Term Exposure:** Problems with eyes, skin, central nervous system, kidneys, and liver may be worsened by exposure to xylene. **Target Organs:** CNS, eyes, gastrointestinal tract, blood, liver, kidneys, skin. **Primary Entry:** Inhalation, skin contact/absorption. **Acute Effects:** Dizziness; excitement; drowsiness; incoordination; staggering gait; irritation of eyes, nose, and throat; corneal vacuolization; anorexia; nausea; vomiting; abdominal pain; and dermatitis. **Chronic Effects:** Reversible eye damage, headache, loss of appetite, nervousness, pale skin, and skin rash.

**FIRST AID: Eyes.** Immediately flush eyes, including under the eyelids, gently but thoroughly with plenty of running water for at least 15 minutes. **Skin.** Immediately wash the affected area with soap and water. **Inhalation.** Remove the exposed person to fresh air; restore and/or support his or her breathing as needed. Have a trained person administer oxygen. **Ingestion.** Never give anything by mouth to someone who is unconscious or convulsing. Vomiting may occur spontaneously, but do not induce it. If vomiting should occur, keep exposed person's head below his or her hips to prevent aspiration (breathing the liquid xylene into the lungs). Severe hemorrhagic pneumonitis with grave, possibly fatal, pulmonary injury can occur from aspiring very small quantities of xylene.

**GET MEDICAL HELP (IN PLANT, PARAMEDIC, COMMUNITY) FOR ALL EXPOSURES. Seek prompt medical assistance for further treatment, observation, and support after first aid. If exposure is severe, hospitilization for at least 72 hours with careful monitoring for delayed onset of pulmonary edema is recommended.**

## SECTION 7. SPILL, LEAK, AND DISPOSAL PROCEDURES

**Spill/Leak:** Notify safety personnel, provide ventilation, and eliminate all sources of ignition immediately. Cleanup personnel need protection against contact with and inhalation of xylene vapor (see sect. 8). Contain large spills and collect waste or absorb it with an inert material such as sand, earth, or vermiculite. Use nonsparking tools to place waste liquid or absorbent into closable containers for disposal. Keep waste out of sewers, watersheds, and waterways.

**Waste Disposal:** Contact your supplier or a licensed contractor for detailed recommendations. Follow Federal, state, and local regulations.

**OSHA Designations**

Air Contaminant (29 CFR 1910.1000 Subpart Z)

**EPA Designations (40 CFR 302.4)**

RCRA Hazardous Waste, No. U239

CERCLA Hazardous Substance, Reportable Quantity: 1000 lbs (454 kg), per the Clean Water Act (CWA), section 311 (b) (9)

## SECTION 8. SPECIAL PROTECTION INFORMATION

**Goggles:** Always wear protective eyeglasses or chemical safety goggles. Where splashing is possible, wear a full face shield as a supplementary protective measure. Follow OSHA eye- and face-protection regulations (29 CFR 1910.133). **Respirator:** Use a NIOSH-approved respirator per the *NIOSH Pocket Guide to Chemical Hazards* for the maximum-use concentrations and/or the exposure limits cited in section 2. Follow OSHA respirator regulations (29 CFR 1910.134). For emergency or nonroutine use (leaks or cleaning reactor vessels and storage tanks), wear an SCBA with a full facepiece operated in the pressure-demand or positive-pressure mode. **Warning:** Air-purifying respirators will *not* protect workers in oxygen-deficient atmospheres. **Other:** Wear impervious gloves, boots, aprons, gauntlets, etc., as required by the specifics of the work operation to prevent prolonged or repeated skin contact with xylene. **Ventilation:** Install and operate general and local maximum, explosion-proof ventilation systems powerful enough to maintain airborne levels of xylene below the OSHA PEL standard cited in section 2. Local exhaust ventilation is preferred because it prevents dispersion of xylene into general work areas by eliminating it at its source. Consult the latest edition of Genium reference 103 for detailed recommendations. **Safety Stations:** Make eyewash stations, safety/quick-drench showers, and washing facilities available in areas of use and handling. **Contaminated Equipment:** Contact lenses pose a special hazard; soft lenses may absorb irritants and all lenses concentrate them. Do *not* wear contact lenses in any work area. Remove contaminated clothing and launder it before wearing it again; clean xylene from shoes and equipment. **Comments:** Practice good personal hygiene; always wash thoroughly after using this material. Keep it off of your clothing and equipment. Avoid transferring it from your hands to your mouth while eating, drinking, or smoking. Do *not* eat, drink, or smoke in any work area. Do not inhale xylene vapor.

## SECTION 9. SPECIAL PRECAUTIONS AND COMMENTS

***Storage/Segregation:*** *Store xylene in a cool, dry, well-ventilated area away from sources of ignition and strong oxidizers. Protect containers from physical damage.*

**Special Handling/Storage:** Make sure all engineering systems (production, transportation) are of maximum explosion-proof design. Ground and bond all containers, pipelines, etc., used in shipping, transferring, reacting, producing, and sampling operations.

**Transportation Data (49 CFR 172.101-2)**

**DOT Shipping Name:** Xylene
**DOT ID No.** UN1307

**DOT Label:** Flammable Liquid
**DOT Hazard Class:** Flammable Liquid

**IMO Label:** Flammable Liquid
**IMO Class:** 3.2 or 3.3

**References:** 1, 2, 12, 73, 84-94, 100, 103.

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# Appendix D ARARs

# Operable Unit 5
# Applicable or Relevant and Appropriate Requirements
# Fort Wainwright, Alaska

Prepared for

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HLA Project No. 29633

August 16, 1995

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## DISTRIBUTION

## 1.0 INTRODUCTION

This section identifies applicable or relevant and appropriate requirements (ARARs) and guidance, policies, or procedures "to be considered" (TBC) for the remedial investigation/feasibility study (RI/FS) at Operable Unit 5 (OU 5) at Fort Wainwright in Fairbanks, Alaska.

The areas considered possible sources of contamination within OU 5 are two general areas defined in a Federal Facility Agreement (FFA) as the North Airfield Groundwater Plumes Source Area and the Open Burning/Open Detonation (OB/OD) source area. The North Airfield Groundwater Plumes Source Area can be further described by the following subareas: the West Section, Former Quartermaster's Fueling System, and the East Section, Former Quartermaster's Fueling System. These areas have been described previously in this Management Plan.

Current requirements for establishing ARARs are guided by the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) (Subsection 121), and by the National Contingency Plan (Title 40, Code of Federal Regulations, Part 300 [40 CFR Part 300]) (EPA, 1990a). The requirements are further guided by the U.S. Environmental Protection Agency's (EPA's) *CERCLA Compliance With Other Laws Manual, Part I: Interim Final* (1988a); *Part II: Clean Air Act and Other Environmental Statutes and State Requirements* (EPA, 1989b); and *Compendium of CERCLA ARARs Fact Sheets and Directives* (EPA and DOE, 1991).

When considering a law, policy, or guideline, the process involves first deciding whether it is applicable. A requirement is applicable if the law or regulation directly addresses the circumstances at the site (EPA, 1988a). If it is not applicable, it may be relevant and appropriate to the site conditions or circumstances. A requirement may be relevant and appropriate if, through best professional judgment, the circumstances are considered sufficiently similar to the situations normally regulated by the requirement. If a requirement is relevant and appropriate, it is an ARAR with the same weight as an applicable requirement. For example, permitting and other strictly administrative requirements do not apply to onsite activities under CERCLA. However, an activity that would involve eventual offsite impacts (for example, a discharge to offsite surface water) may not be exempt.

Initially determining whether a requirement is applicable, as opposed to relevant and appropriate, is important because it is legal and jurisdictional; once made, all substantive portions must be followed. The relevance and appropriateness determination is more flexible. Professional judgment may determine that only portions of a relevant and appropriate requirement must be complied with. In this way, a specific or prescriptive requirement determined to be relevant and appropriate may be adjusted to fit the circumstances of a site. Other criteria, advisories, guidance, and proposed standards may be identified as TBC, and also evaluated with ARARs.

ARARs are identified as chemical specific, location specific, and action specific. Chemical-specific ARARs for water generally identify risk-based concentration limits or the maximum contaminant levels (MCLs) and maximum contaminant level goals (MCLGs) established by federal and state requirements for drinking water, which may or may not be risk based. Chemical-specific ARARs for soil are established by state or federal requirements or contained in guidelines. Location-specific ARARs identify requirements triggered by the area of a site and its surroundings. For example, a site within a floodplain would be subject to requirements that would restrict or regulate the placement or disposal of hazardous waste at the site. Action-specific ARARs are triggered by the choice of a remedy. For example, incineration as a remedy would be subject to federal and state restrictions on air releases.

As the RI/FS process progresses and the nature and extent of contamination are defined, the list of ARARs will change to focus on the remedial alternatives identified as most appropriate for the site conditions. The detailed analysis of remedial alternatives will document the ARARs considered

in the RI/FS. The ARARs and TBCs will be summarized in the RI/FS Proposed Plan and in the Record of Decision (ROD), which will explain why a requirement is applicable or relevant and appropriate and how each component of an alternative will be complied with. If a chosen alternative does not attain an ARAR, the ARAR may be waived under six specific circumstances. These circumstances include interim measures, equivalent standard of performance, greater risk to human health and environment, technical impracticability, inconsistent application of a state standard, and fund balancing (EPA, 1989). These waivers may not be used for offsite actions. ARARs identified in this appendix are preliminary and should not be considered the final determination for OU 5. Subsequent documentation in the RI/FS proposed plan, in the EPA's Proposed Plan, and in the ROD will further refine the ARARs until the remedy for OU 5 is selected.

## 2.0 POTENTIAL CHEMICAL-SPECIFIC ARARS AND TBCS FOR OPERABLE UNIT 5

According to the EPA (1988a), chemical-specific ARARs are

> "...usually health- or risk-based numerical values or methodologies which, when applied to site-specific conditions, result in the establishment of numerical values. These values establish the acceptable amount or concentration of a chemical that may be found in, or discharged to, the ambient environment.* If a chemical has more than one such requirement that is ARAR, the most stringent generally should be complied with. There are, at present, only a limited number of chemical-specific requirements."

---

* "Some federal or state statutes, such as the Clean Water Act, may establish methodology for setting site-specific discharge limitations. Such requirements may also be ARARs, depending on site-specific considerations."

Chemical-specific requirements are used as a starting point for risk calculations for setting cleanup goals. These goals will be set by the results of a planned risk assessment which uses a number of factors that consider human health exposure and site-specific considerations. The resulting goals may be lower than the chemical-specific ARARs or TBC values. The National Contingency Plan (NCP), as amended in March 1990, further clarified that MCLs may be the cleanup level, and the MCLGs that are above zero may be the cleanup level for a specific constituent when considered relevant and appropriate under the circumstances of the release (EPA, 1990).

Chemical-specific requirements may be set by a number of different federal and state statutes and regulations. The following statutes, regulations, and guidance were used in this appendix to develop ARARs or TBCs:

**Federal**

- Safe Drinking Water Act (SDWA);
- National Ambient Air Quality Standards (NAAQS);
- Clean Water Act (CWA);
- CERCLA;
- Superfund Amendments and Reauthorization Act (SARA);
- Resource Conservation and Recovery Act (RCRA);
- Hazardous and Solid Waste Amendments (HSWA);
- 40 CFR Part 300, National Oil and Hazardous Substances Pollution Contingency Plan, EPA, updated March 1990;
- EPA Region 10 Supplemental Risk Assessment Guidance for Superfund, August 1991 (Appendix II revised October 1992);
- Drinking Water Regulations and Health Advisories, EPA, May 1994;

- 40 CFR Part 761, Subpart G, TSCA (Toxic Substance Control Act), PCB (Polychlorinated Biphenyl) Spill Cleanup Policy, EPA, updated October 1988;
- Quality Criteria for Water (Gold Book Standards), 1986 (Updated in 1987 and 1988).

**State**

- Alaska Statute, Title 46:
  - Article 3 - Water Pollution Control and Waste Disposal;
  - Article 4 - Air Pollution Control;
  - Article 5 - Radiation and Hazardous Waste Protection.
- Alaska Administrative Code (AAC), Title 18:
  - Chapter 70 - Water Quality Standard Regulations;
  - Chapter 80 - Drinking Water Regulations;
  - Chapter 50 - Air Quality Control;
  - Chapter 78 - Underground Storage Tanks.
- Interim Guidance for Non-Underground Storage Tank (UST) Contaminated Soil Cleanup Levels, Alaska Department of Environmental Conservation (ADEC), July 17, 1991;
- Interim Guidance For Surface- and Groundwater Cleanup Levels, ADEC, September 26, 1990.

Federal and state drinking water MCLs are identified as potential chemical-specific ARARs.

Constituents of concern for the three source areas within OU 5 include volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), and metals. Tables D-1 and D-2 show selected chemical-specific potential ARARs and TBCs for the constituents found in groundwater and soil at OU 5, according to existing data (HLA, 1994a, 1994b; $CH_2M$ Hill, 1994).

Table D-3 presents selected chemical-specific potential ARARs and TBCs for constituents preliminarily identified in surface water at OU 5. Table D-3 includes state drinking water MCLs, water quality criteria set as standards in 18 AAC 70, Alaska Water Quality Standard Regulations (AWQSRs), and EPA ambient water quality criteria for the protection of freshwater aquatic life. Except for state MCLs, Table D-1 does not include potential chemical-specific ARARs included in the AWQSRs.

The AWQSRs include narrative and numerical standards for several water quality criteria of interest for OU 5, such as "petroleum hydrocarbons, oils, and grease" and "toxic and other deleterious organic substances." The AWQSRs set standards for surface water and ground water and incorporate, by reference, the MCLs prescribed in the Alaska Drinking Water Regulations (18 AAC 80) and the ambient water quality criteria contained in the EPA publications cited in the AWQSRs. The AWQSRs also include an EPA-mandated "antidegradation" provision under 18 AAC 70.010 (c); procedures for reclassification of state waters (18 AAC 70.050); a provision for modifying water quality criteria using site-specific criteria (18 AAC 70.025); and provisions for establishing mixing zones (18 AAC 70.032) that may be applicable in setting chemical-specific ARARs for OU 5. A revised edition of the AWQSRs became effective January 4, 1995. The revisions include modifications that apply to establishing chemical-specific ARARs for OU 5. Specifically, the AWQSRs now set a 15-micrograms-per-liter ($\mu$g/L) limit for total aqueous hydrocarbons (TAqH) in surface water and groundwater. Similarly, the revised AWQSs specify 10 $\mu$g/L as the water quality standard for total aromatic hydrocarbons (TAH) in groundwater and surface water. In addition, under the provisions of 18 AAC 70.002, the current AWQSRs prescribe "a lifetime incremental cancer risk level of 1 in 100,000 for exposed individuals" as the basis for protecting human health when adopting water quality criteria for a carcinogenic substance.

## Table D-1. Selected Chemical-Specific Potential ARARs and TBCs for Constituents Found in Groundwater at Operable Unit 5

| | Potential ARARs | | TBCs |
|---|---|---|---|
| | Federal MCL[a] (μg/L) | State MCL[b] (μg/L) | Tap Water RBC (μg/L) |
| **WEST SECTION, FORMER QUARTERMASTER'S FUELING SYSTEM** | | | |
| 1,3-Dichlorobenzene | -- | -- | 540 n |
| 1,1,1-Trichloroethane | 200 | 200 | 1,300 n |
| 1,1-Dichloroethane | -- | -- | 810 n |
| 1,1-Dichloroethene | 7 | 7 | 0.044 c |
| 1,2,4-Trichlorobenzene | 70 | 70 | 190 n |
| 1,2,4-Trimethylbenzene | -- | -- | 3 n |
| 1,2-Dichloroethane | 5 | 5 | 0.12 c |
| 1,2-Dichloropropane | 5 | 5 | 0.16 c |
| 1,3,5-Trimethylbenzene | -- | -- | 2.4 n |
| Benzene | 5 | 5 | 0.36 c |
| cis-1,2-Dichloroethene | 70 | 70 | 61 n |
| Dichlorodifluoromethane | -- | -- | 390 n |
| Diesel-Range Organics (DRO) | -- | -- | -- |
| Ethylbenzene | 700 | 700 | 1,300 n |
| Gasoline-Range Organics (GRO) | -- | -- | -- |
| Isopropylbenzene | -- | -- | 1,500 n |
| n-Butylbenzene | -- | -- | -- |
| n-Propylbenzene | -- | -- | 960 d |
| Naphthalene | -- | -- | 1,500 n |
| p-Isopropyltoluene | -- | -- | 15,400 d |
| sec-Butylbenzene | -- | -- | 61 n |
| Styrene | 100 | 100 | 1,600 n |
| Toluene | 1,000 | 1,000 | 750 n |
| trans-1,2-Dichloroethene | 100 | 100 | 120 n |
| Trichloroethene (TCE) | 5 | 5 | 1.6 c |
| Trichlorofluoromethane | -- | -- | 1,300 n |
| Xylenes (total) | 10,000 | 10,000 | 12,000 n |
| **EAST SECTION, FORMER QUARTERMASTER'S FUELING SYSTEM** | | | |
| Building 1060 | | | |
| 2-Methylnaphthalene | -- | -- | -- |
| Benzene | 5 | 5 | 0.36 c |
| Chloroethane | -- | -- | 8,600 n |
| cis-1,2-Dichloroethene | 70 | 70 | 61 n |
| DRO | -- | -- | -- |
| Ethylbenzene | 700 | 700 | 1,300 n |
| GRO | -- | -- | -- |
| Naphthalene | -- | -- | 1,500 n |
| TCE | 5 | 5 | 1.6 c |
| Toluene | 1,000 | 1,000 | 750 n |
| Total Petroleum Hydrocarbons (TPH) | -- | -- | -- |
| trans-1,2-Dichloroethene | 100 | 100 | 120 n |
| Trichlorofluoromethane | -- | -- | 1,300 n |
| Xylenes (total) | 10,000 | 10,000 | 12,000 n |
| Building 1565 | | | |
| Acetone | -- | -- | 3,700 n |
| Benzene | 5 | 5 | 0.36 c |
| 1,1-Dichloroethane | -- | -- | 810 n |
| 1,1-Dichloroethene | 7 | 7 | 0.044 c |
| 1,1,1-Trichloroethane | 200 | 200 | 1,300 n |
| 1,2,4-Trimethylbenzene | -- | -- | 3 n |
| 1,3,5-Trimethylbenzene | -- | -- | 2.4 n |
| Carbon Disulfide | -- | -- | 21 n |
| Chloroform | 100 e | 100 e | 0.15 c |

## Table D-1. Selected Chemical-Specific Potential ARARs and TBCs for Constituents Found in Groundwater at Operable Unit 5 (continued)

| | Potential ARARs | | TBCs |
|---|---|---|---|
| | Federal MCL[a] (μg/L) | State MCL[b] (μg/L) | Tap Water RBC (μg/L) |
| Building 1565 (continued) | | | |
| cis-1,2-Dichloroethene | 70 | 70 | 61 n |
| Ethylbenzene | 700 | 700 | 1,300 n |
| Isopropylbenzene | -- | -- | 1,500 n |
| n-Propylbenzene | -- | -- | 960 c |
| Naphthalene | -- | -- | 1,500 n |
| p-Isopropyltoluene | -- | -- | 15,400 c |
| sec-Butylbenzene | -- | -- | 61 n |
| TCE | 5 | 5 | 1.6 c |
| Toluene | 1,000 | 1,000 | 750 n |
| trans-1,2-Dichloroethene | 100 | 100 | 120 n |
| Xylenes (total) | 10,000 | 10,000 | 12,000 n |
| Building 1053 | | | |
| 1,2-Dichloropropane | 5 | 5 | 0.16 c |
| Acetone | -- | -- | 3,700 n |
| Arsenic | 50 | 50 | 0.038 c/11 n |
| Barium | 2,000 | 2,000 | 2,600 n |
| DRO | -- | -- | -- |
| Lead | 15 f | -- | 0.0037 n |
| TCE | 5 | 5 | 1.6 c |
| Xylenes (total) | 10,000 | 10,000 | 12,000 n |
| Building 1054 | | | |
| 1,2-Dichloropropane | 5 | 5 | 0.16 c |
| Acetone | -- | -- | 3,700 n |
| Barium | 2,000 | 2,000 | 2,600 n |
| DRO | -- | -- | -- |
| Xylenes (total) | 10,000 | 10,000 | 12,000 n |
| Building 1567 | | | |
| 1,2-Dichloropropane | 5 | 5 | 0.16 c |
| Acetone | -- | -- | 3,700 n |
| Chloroform | 100 e | 100 e | 0.15 c |
| DRO | -- | -- | -- |
| Methylene Chloride (dichloromethane) | 5 | 5 | 4.1 c |
| Xylenes (total) | 10,000 | 10,000 | 12,000 n |

**OPEN BURNING/OPEN DETONATION AREA**

No groundwater samples have been collected from this site

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-- No applicable regulatory criteria available
ARARs Applicable or relevant and appropriate requirements
TBC Other standards to be considered
μg/L Micrograms per liter

a. U.S. Environmental Protection Agency (EPA) maximum contaminant levels (MCLs), May 1994.
b. Alaska Department of Environmental Conservation, Title 18, Alaska Administrative Code, Chapter 80.070 (18 AAC 80.070) MCLs.
c. EPA, 1994, risk-based concentrations (RBCs) at risk=$10^{-6}$ for tap water exposure.
d. RBC from HLA's July 1994 Phase II site investigation, Building 1565.
e. EPA, 1994a, and 18 AAC 70, level shown is for chloroform as a trihalomethane. The total of all trihalomethanes combined cannot exceed the level shown.
f. EPA, 1994a, level shown is an EPA action level rather than an MCL.
n. EPA, 1994, RBCs at hazard quotient =1 for tap water exposure.

**Table D-2. Selected Chemical-Specific Potential ARARs and TBCs for Constituents Found in Soil at Operable Unit 5**

| Constituent | Cleanup Level[a] (mg/kg) | TBC (mg/kg) |
|---|---|---|
| **WEST SECTION, FORMER QUARTERMASTER'S FUELING SYSTEM** | | |
| 1,2,4-Trimethylbenzene | -- | 39 n |
| 1,3,5-Trimethylbenzene | -- | 31 n |
| Benzene, toluene, ethylbenzene, and xylenes (BTEX) (total) | 10 | -- |
| Benzene | 0.1 | 22 c |
| Diesel-Range Organics (DRO) | 100 | -- |
| Ethylbenzene | -- | 7,800 n |
| Gasoline-Range Organics (GRO) | 50 | -- |
| Isopropylbenzene | -- | 3,100 n |
| Lead | -- | 400 b |
| n-Butylbenzene | -- | -- |
| n-Propylbenzene | -- | -- |
| Naphthalene | -- | 3,100 n |
| p-Isopropyltoluene | -- | -- |
| sec-Butylbenzene | -- | 780 n |
| tert-Butylbenzene | -- | 780 n |
| Toluene | -- | 16,000 n |
| Xylenes (total) | -- | 160,000 n |
| Building 1599 | | |
| 1,2,4-Trimethylbenzene | -- | 39 n |
| 1,3,5-Trimethylbenzene | -- | 31 n |
| 2-Methylnaphthalene | -- | -- |
| 4-Isopropyltoluene | -- | -- |
| Benzene | 0.1 | 22 c |
| Bis(2-ethylhexyl)phthalate | -- | 46 c |
| BTEX (total) | 10 | -- |
| DRO | 100 | -- |
| Ethylbenzene | -- | 7,800 n |
| GRO | 50 | -- |
| Naphthalene | -- | 3,100 n |
| sec-Butylbenzene | -- | 780 n |
| Tetrachloroethene (PCE) | -- | 12 c |
| Toluene | -- | 16,000 n |
| Xylenes (total) | -- | 160,000 n |
| **EAST SECTION, FORMER QUARTERMASTER'S FUELING SYSTEM** | | |
| Building 1060 | | |
| 1,1,2-Trichloroethane | -- | 11 c |
| 2-Hexanone | -- | -- |
| Bis(2-ethylhexyl)phthalate | -- | 46 c |
| BTEX (total) | 10 | -- |
| cis-1,2-Dichloroethene | -- | 780 n |

**Table D-2. Selected Chemical-Specific Potential ARARs and TBCs for Constituents Found in Soil at Operable Unit 5 (continued)**

| Constituent | Cleanup Level[a] (mg/kg) | TBC (mg/kg) |
|---|---|---|
| DRO | 100 | -- |
| Ethylbenzene | -- | 7,800 n |
| GRO | 50 | -- |
| Naphthalene | -- | 3,100 n |
| Total Petroleum Hydrocarbons (TPH)[e] | -- | -- |
| Trichloroethene (TCE) | -- | 58 c |
| Vinyl acetate | -- | 78,000 n |
| Xylenes (total) | -- | 160,000 n |
| Building 1565 | | |
| 1,2,4-Trimethylbenzene | -- | 39 n |
| 1,3,5-Trimethylbenzene | -- | 31 n |
| 1,1,1-Trichloroethane | -- | 7,000 n |
| 2-Butanone | -- | 47,000 n |
| Acetone | -- | 7,800 n |
| Benzene | 0.1 | 22 c |
| BTEX (total) | 10 | -- |
| DRO | 100 | -- |
| Ethylbenzene | -- | 7,800 n |
| GRO | 50 | -- |
| Isopropylbenzene | -- | 3,100 n |
| Lead | -- | 400 b |
| Methylene Chloride | -- | 85 c |
| n-Propylbenzene | -- | 54,800 d |
| Naphthalene | -- | 3,100 n |
| p-Isopropyl toluene | -- | 548,000 d |
| sec-Butylbenzene | -- | 780 n |
| Toluene | -- | 16,000 n |
| TPH e | -- | -- |
| Xylenes (total) | -- | 160,000 n |
| Building 1053 | | |
| 1,2 Dichlorobenzene | -- | 7,000 n |
| Acetone | -- | 7,800 n |
| Arsenic | -- | 0.37 c/23 n |
| Barium | -- | 5,500 n |
| Chromium | -- | -- |
| DRO | 200 | -- |
| Lead | -- | 400 b |
| Naphthalene | -- | 3,100 n |
| Xylenes (total) | -- | 160,000 n |
| Building 1054 | | |
| Arsenic | -- | 0.37 c/23 n |
| Barium | -- | 5,500 n |

**Table D-2. Selected Chemical-Specific Potential ARARs and TBCs for Constituents Found in Soil at Operable Unit 5 (continued)**

| Constituent | Cleanup Level[a] (mg/kg) | TBC (mg/kg) |
|---|---|---|
| Chromium | -- | -- |
| cis-1,2-Dichloroethene | -- | 780 n |
| DRO | 100 | -- |
| Lead | -- | 400 b |
| TCE | -- | 58 c |
| Building 1567 | | |
| 2-Butanone | -- | 47,000 n |
| 2-Hexanone | -- | -- |
| 4-Methyl-2-Pentanone | -- | 6,300 n |
| Acetone | -- | 7,800 n |
| 4,4'-Dichlorodiphenyldichloroethane | -- | 2.7 c |
| 4,4'-Dichlorodiphenyldichloroethylene | -- | 1.9 c |
| 4,4'-Dichlorodiphenyltrichloroethane | -- | 1.9 c |
| Aldrin | -- | 0.038 c |
| Alpha-benzene hexachloride (BHC) | -- | 0.1 c |
| Chlordane | -- | 0.49 c |
| Dieldrin | -- | 0.04 c |
| Endosulfan II | -- | -- |
| Endrin | -- | 23 n |
| Endrin Aldehyde | -- | -- |
| Gamma-BHC (Lindane) | -- | 0.49 c |
| Heptachlor | -- | 0.14 c |
| Toxaphene | -- | 0.58 c |
| **OPEN BURNING/OPEN DETONATION AREA** | | |
| DRO | 100 to 2,000 | -- |
| p-Chlorophenyl methyl sulfoxide | -- | -- |

-- No applicable criteria available
ARARs Applicable or relevant and appropriate requirements
mg/kg Milligrams per kilogram
TBC To be considered

a. From the Alaska Department of Environmental Conservation's *Interim Guidance for Non-UST Contaminated Soil Cleanup Levels*, July 17, 1991, and Title 18, Alaska Administrative Code, Chapter 78 (18 AAC 78), Underground Storage Tanks, as amended through August 21, 1991.
b. Based on OSWER Directive No. 9355.4-12, the EPA recommends a 400 mg/kg screening level for lead in soil for residential land use (EPA, 1994b).
c. U.S. Environmental Protection Agency (EPA) Region 3 (1994). Values are based on $10^{-6}$ risk for residential soil exposure.
d. Risk-based concentration from HLA's July 1994 phase II site investigation, Building 1565 (HLA, 1994b).
e. ADEC defines residual-range petroleum hydrocarbons (RRO) as "analytical measurement for the total concentration of petroleum hydrocarbons, minus the concentrations quantified in the diesel and gasoline petroleum hydrocarbon ranges." Although the ADEC has not set cleanup standards for TPH, soils contaminated solely by releases of RRO must be cleaned up to 2,000 mg/kg as defined under the requirements of 18 AAC 78.315.
n. Hazard quotient value is 1 (EPA, 1994) for residential soil exposure.

## Table D-3. Selected Chemical-Specific Potential ARARs and TBCs for Constituents Found in Surface Water at Operable Unit 5

| Constituent | State MCL µg/L | AWQSR µg/L | AWQC - Acute µg/L | AWQC - Chronic µg/L |
|---|---|---|---|---|
| Benzene | 5 | 15 and 10[a] | 5,300 | -- |
| 1,3-Dichlorobenzene | -- | -- | 1,120 | 763 |
| Petroleum hydrocarbon sheen, taste, and odor | 3 (TON)[b] | None[c,d] | Virtually free[e] | Virtually free[e] |
| Toluene | 1,000 | 15 and 10[a] | 17,500 | -- |
| Xylenes (total) | 10,000 | 15 and 10[a] | -- | -- |

| | |
|---|---|
| -- | No applicable regulatory criteria available. |
| ARARs | Applicable or Relevant and Appropriate Requirements. |
| AWQSR | Water quality standard set in the Alaska Water Quality Standard Regulations, 18 AAC 70. |
| AWQC -Acute | Ambient Water Quality Criteria for protection of freshwater aquatic life from acute toxicity through exposure to the specified chemical. Values specified are from EPA's Water Quality Criteria for Water 1986. |
| AWQC -Chronic | Ambient Water Quality Criteria for protection of freshwater aquatic life from chronic toxicity through exposure to the specified chemical. Values specified are from EPA's Water Quality Criteria for Water 1986. |
| µg/L | Micrograms per liter |
| State MCL | Maximum contaminant level set in the Alaska Drinking Water Regulations, 18 AAC 80. |
| TBC | Other standards to be considered |

a. For the growth and propagation of fish, shellfish, other aquatic life, and wildlife, Title 18, Alaska Administrative Code, Chapter 70.020(b) (18 AAC 70 .020 [b]) specifies that total aqueous hydrocarbons (TAqH) in the water column may not exceed 15 µg/L and that total aromatic hydrocarbon may not exceed 10 µg/L.

b. The Alaska Drinking Water Regulations set a secondary MCL of "3 threshold odor number" (TON) for odor in drinking water.

c. For a water supply used for human consumption, 18 AAC 70.020 (b) specifies that petroleum hydrocarbons shall not cause a visible sheen upon the surface of the water and shall not exceed concentrations that impart odor or taste to the water.

d. For water used for recreation and the growth and propagation of aquatic life and wildlife, 18 AAC 70.020 (b) specifies that petroleum hydrocarbons shall not cause a film, sheen or discoloration on the surface or floor of a water body or adjoining shorelines.

e. The U.S. Environmental Protection Agency's (EPA' s) Quality Criteria for Water specifies that surface waters be virtually free from petroleum-derived oils.

Preliminary results of sediment and surface-soil sampling along the segment of the Chena River passing north of the OU 5 source areas identified the following contaminants:

- GRO
- DRO
- Toluene
- Ethylbenzene
- Xylenes
- sec-Butylbenzene
- 1,2,4-Trimethylbenzene
- 1,3,5-Trimethylbenzene
- p-Isopropyltoluene
- Naphthalene

Potential chemical specific ARARs and TBCs identified for these chemicals in sediments were found in the AWQSRs and the EPA's Quality Criteria for Water. For petroleum hydrocarbons, oils and grease the AWQSRs specify that "there may be no concentrations of petroleum hydrocarbons...in shoreline or bottom sediments that cause deleterious effects to aquatic life. Surface and adjoining shorelines must be virtually free from floating oil film, sheen, or discoloration." The EPA's Quality Criteria for Water specifies that to protect aquatic life "Levels of oils or petrochemicals in the sediment which cause deleterious effects to the biota should not be allowed." The AWQSRs and the EPA's Quality Criteria for Water do not prescribe numeric values for acceptable levels of petroleum hydrocarbons in sediment.

Additional chemical-specific ARARs and TBCs may apply that are action specific. Remedies that include incineration, air stripping, or volatilization of contaminants may be covered or guided by federal and state limits for air emissions. If the treatment alternative involves discharged wastewater, standards for effluent discharge established by federal and state requirements may apply.

## 3.0 POTENTIAL LOCATION-SPECIFIC ARARS

The location of a site and its proximity to humans and ecosystems must be considered in selecting appropriate remedial actions. The EPA defines location-specific ARARs as "...restrictions placed on the concentration of hazardous substances or the conduct of activities solely because they are in specific locations" (EPA, 1988a). Table D-4 lists potential ARARs that are location specific for OU 5.

The RCRA requirements shown in Table D-4 may be considered ARARs if wastes such as contaminated soil or groundwater are generated by removal or excavation, and are found to contain constituents meeting the criteria for characteristic hazardous waste.

## 4.0 SELECTED ACTION-SPECIFIC POTENTIAL ARARS

Action-specific ARARs apply when remedial activities are selected to effect a remedy. The EPA defines action-specific ARARs as "...usually technology- or activity-based requirements or limitations on actions taken with respect to hazardous wastes" (EPA, 1988a). The action-specific ARARs impact how the selected remedy will be accomplished, but do not in themselves determine the selection of the alternative.

Table D-5 lists the possible remedial activities that may trigger ARARs when performed as part of the remedy. The table format is duplicated from the comprehensive list given in the EPA's guidance on ARARs (EPA, 1988a). The table includes only those actions that are identified as possibilities for OU 5 as part of the evolving RI/FS. In addition, the substantive portions of the state requirements listed in Section 2, and in state solid waste (18 AAC 60), wastewater (18 AAC 72), and hazardous waste (18 AAC 62) regulations, may apply to the actions listed in Table D-5, particularly actions involving air or wastewater discharges.

## Table D-4. Potential Location-Specific ARARs

| Location | Requirement | Prerequisite | Citation |
|---|---|---|---|
| Within 61 Meters (200 feet) of a Fault Displaced in Holocene Times | New treatment, storage, or disposal of hazardous waste prohibited | RCRA hazardous waste - treatment, storage, or disposal | Title 40, Code of Federal Regulations, Part 264.18[a] (40 CFR 264.18[a]) |
| Within 100-Year Floodplain[a] | Facility must be designed, constructed, operated, and maintained to avoid washout | RCRA hazardous waste - treatment, storage, or disposal | 40 CFR 264.18[b] |
| Within Floodplain[a] | Action to avoid adverse effects, minimize potential harm, and restore and preserve natural and beneficial values | Action that will occur in a floodplain, i.e., lowlands and relatively flat areas adjoining inland and coastal waters and other floodplain areas | Protection of floodplains, (40 CFR 6, Appendix A); Fish and Wildlife Coordination Act (16 United States Code [USC] 661 et seq.); 40 CFR 6.302[a] |
| Wetlands[a] | Action to avoid adverse effects, minimize potential harm, and preserve and enhance wetlands, to the extent possible[b] | Action involving construction of facilities or management of property in wetlands, as defined by 40 CFR Part 6, Appendix A, section 4(j) | 40 CFR Part 6, Appendix A |
| Area Affecting Stream or River | Action to protect fish or wildlife | Diversion, channeling, or other activity that modifies a stream or river and affects fish or wildlife | Fish and Wildlife Coordination (16 USC 661 et seq.); 40 CFR 6.302[a] |

RCRA Resource Conservation and Recovery Act.

a. 40 CFR Part 6, Subpart A sets forth U.S. Environmental Protection Agency (EPA) policy for carrying out the provisions of Executive Orders 11988 (Floodplain Management) and 11990 (Protection of Wetlands). Executive orders are binding on the level of government (e.g., federal, state) for which they are issued.

b. Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), Compliance With Other Laws Manual, Part I: Interim Final, EPA, 1988a.

## Table D-5. Selected Action-Specific Potential ARARs[a]

| Actions[b] | Requirements | Prerequisites for Applicability[b] | Citation |
|---|---|---|---|
| Air Stripping | Visible emissions, excluding condensed water vapor, from an industrial process may not reduce visibility through the exhaust effluent by more than 20 percent for more than 3 minutes in any 1 hour.<br><br>Particulate matter emitted from an industrial process may not exceed, per cubic foot of exhaust gas corrected to standard conditions, 0.05 grains.<br><br>Carbon dioxide may not exceed 100 ppm. Continuous monitoring is required. | Industrial process with a total design rate, capacity, or throughput greater than 5 tons per hour that physically or chemically treats the material. | Title 46, Alaska Statutes, Chapter 14 (46 AS 14) and Title 18, Alaska Administrative Code, Chapter 50 (18 AAC 50) |
| Capping<br>(See Also "Closure With Waste in Place" for Additional Associated Requirements) | Placement of a cap over waste (e.g., closing a landfill, closing a surface impoundment or waste pile as a landfill, or similar action) requires a cover designed and constructed to:<br><br>• Provide long-term minimization of liquids migrating through the capped area;<br><br>• Function with minimum maintenance;<br><br>• Promote drainage and minimize erosion or abrasion of the cover;<br><br>• Accommodate settling and subsidence so the cover's integrity is maintained; and<br><br>• Have a permeability less than or equal to the permeability of any bottom liner system or natural subsoil present. | RCRA hazardous waste placed at site after the effective date of the requirements or hazardous waste placed into another unit will make requirements applicable when the waste is covered with a cap and left behind after the remedy is completed. Capping without such placement will not make requirements applicable.[c] | Title 40, Code of Federal Regulations, Part 264.228(a) (40 CFR 264.228[a]) (Surface Impoundments); 40 CFR 264.258(b) (Waste Piles); and 40 CFR 264.310(a) (Landfills) |
| | Eliminate free liquids and stabilize wastes before capping (surface impoundments). | | 40 CFR 264.228(a) |

## Table D-5. Selected Action-Specific Potential ARARs[a] (continued)

| Actions[b] | Requirements | Prerequisites for Applicability[b] | Citation |
|---|---|---|---|
| | Restrict postclosure use of property as necessary to prevent damage to the cover. | | 40 CFR 264.117(c) |
| | Prevent run-on and runoff from damaging cover. | | 40 CFR 264.228(b) |
| | Protect and maintain surveyed benchmarks used to locate waste cells (landfills, waste piles). | | 40 CFR 264.310(b) |
| Closure with No Post-Closure Care (e.g., Clean Closure) | General performance standard requires eliminating further maintenance and control, and eliminating postclosure escape of hazardous waste, hazardous constituents, leachate, contaminated runoff, or hazardous waste decomposition products. | Applicable to land-based unit containing hazardous waste.[c] Applicable to RCRA hazardous waste (listed or characteristic) placed at site after the effective date of the requirements or placed into another unit. Not applicable to material treated, stored, or disposed of only before the effective date of the requirements, or material treated in situ or consolidated within the area of contamination. Designed for cleanup that will not require long-term management. Designed for cleanup to health-based standards. | 40 CFR 264.111 |
| | Disposal or decontamination of equipment, structures, and soil.<br><br>Removal or decontamination of all waste residues; contaminated containment system components (e.g., liners, dikes); contaminated subsoil; and structures and equipment contaminated with waste and leachate. Management of waste residues as hazardous waste. | May apply to surface impoundments, container or tank liners, hazardous waste residues, and contaminated soil, including soil from dredging or soil distributed in the course of drilling or excavation, and returned to land. | 40 CFR 264.111<br>40 CFR 264.178<br>40 CFR 264.197<br>40 CFR 264.288(o)(1) and<br>40 CFR 264.258 |
| | Meet health-based levels at unit. | | 40 CFR 244.111 |

## Table D-5. Selected Action-Specific Potential ARARs[a] (continued)

| Actions[b] | Requirements | Prerequisites for Applicability[b] | Citation |
|---|---|---|---|
| Closure With Waste in Place | Eliminate free liquids by removal or solidification. | Applicable to land disposal of hazardous waste Applicable to RCRA hazardous waste (listed or characteristic) placed at site after the effective date of the requirements or placed into another unit. Not applicable to material treated, stored, or disposed of before the effective date of the requirements, or to material treated in situ or consolidated within the area of contamination. | 40 CFR 264.228(a)(2)<br>40 CFR 264.228(a)(2)<br>40 CFR 264.258(b) |
| | Install final cover to provide long-term minimization of infiltration (see "Capping"). | | 40 CFR 264.310 |
| | 30-year post-closure care and ground-water monitoring.[d] | | 40 CFR 264.310 |
| Closure of Land Treatment Units | Maximize degradation, transformation, or immobilization of hazardous constituents within the treatment zone; minimize run-off of constituents; maintain run-on control system and run-off management system; control wind dispersal of hazardous waste; maintain unsaturated zone monitoring; establish vegetative cover; and establish background soil values to determine consistency with permit values. | Closure of land treatment units. | 40 CFR 264.280 |
| Consolidation Within a Unit | None applicable.[c] | Consolidation within a unit.[e] | |
| Consolidation Between Units | For the waste that is moved, see requirements in the following sections: Capping, Closure With Waste in Place, Container Storage, Construction of a New Landfill Onsite, Incineration (Onsite), Land Treatment, Tank Storage, and Treatment. | Movement of hazardous waste and placement into another unit. | See Capping, Closure With Waste in Place, Container Storage, Construction of a New Landfill Onsite, Incineration (Onsite), Land Treatment, Tank Storage, and Treatment in this table. |

## Table D-5. Selected Action-Specific Potential ARARs[a] (continued)

| Actions[b] | Requirements | Prerequisites for Applicability[b] | Citation |
|---|---|---|---|
| Container Storage | Containers of RCRA hazardous waste must be:<br>• Maintained in good condition;<br>• Compatible with hazardous waste to be stored; and<br>• Closed during storage (except to add or remove waste). | Store RCRA hazardous waste (listed or characteristic) not meeting small quantity generator criteria held for a temporary period greater than 90 days before treatment, disposal, or storage elsewhere (40 CFR 264.10) in a container (i.e., any portable device in which a material is stored, transported, disposed of, or handled). A generator that accumulates or stores hazardous waste onsite for 90 days or less in compliance with 40 CFR 262.34(a)(1-4) is not subject to full RCRA storage requirements. Small quantity generators are not subject to the 90-day limit (40 CFR 262.34[c], [d], and [e]). | 40 CFR 264.171<br>40 CFR 264.172<br>40 CFR 264.173 |
| | Inspect container storage areas weekly for deterioration. | | 40 CFR 264.174 |
| | Place containers on a sloped, crack-free base, protected from contact with accumulated liquid. Provide containment system with a capacity of 10 percent of the volume of containers of free liquids. Remove spilled or leaked waste in a timely manner to prevent overflow of the containment system. | | 40 CFR 264.175 |
| | Keep containers of ignitable or reactive waste at least 50 feet from the facility's property line. | | 40 CFR 264.176 |
| | Keep incompatible materials separated by a dike or other barrier. | | 40 CFR 264.177 |

## Table D-5. Selected Action-Specific Potential ARARs[a] (continued)

| Actions[b] | Requirements | Prerequisites for Applicability[b] | Citation |
|---|---|---|---|
| | At closure, remove all hazardous waste and residues from the containment system, and decontaminate or remove all containers and liners. | | 40 CFR 264.178 |
| | Store banned wastes in accordance with 40 CFR 268. When such storage occurs beyond 1 year, the owner/operator bears the burden of proving that such storage is solely for the purpose of accumulating sufficient quantities to allow for proper recovery, treatment, and disposal. | | 40 CFR 268.50 |
| Construction of a New Landfill Onsite (See "Closure With Waste in Place") | Minimum Technology Requirements:<br><br>Install the following two liners (or more): a top liner that prevents waste migration into the liner and a bottom liner that prevents waste migration through the liner.[f] | RCRA hazardous waste (listed or characteristic) currently being placed in a new, replacement, or expanded landfill. | 40 CFR 264.301 |
| | Install leachate collection systems above and between the liners. | | 40 CFR 264.301 |
| | Construct run-on and runoff control systems capable of handling the peak discharge of a 25-year storm. | | 40 CFR 264.301 |
| | Control wind dispersion of particulates. | | 40 CFR 264.301 |
| | Monitor operation and maintenance. | | 40 CFR 264.303-304 |
| | Close each cell with a final cover after the last waste has been received. | | 40 CFR 264.301 |

## Table D-5. Selected Action-Specific Potential ARARs[a] (continued)

| Actions[b] | Requirements | Prerequisites for Applicability[b] | Citation |
|---|---|---|---|
| | Monitor groundwater: | | |
| | Establish a detection monitoring program (264.98). Establish a compliance monitoring program (264.99) and corrective action monitoring program (264.100) when required by 40 CFR 264.91. All monitoring programs must meet RCRA general groundwater monitoring requirements (264.97). | Create a new landfill unit to treat, store, or dispose of RCRA hazardous wastes as part of a response action. | 40 CFR 264.91-264.100 |
| Discharge of Treatment System Effluent | Best Available Technology: | | |
| | Use of best available technology (BAT) economically achievable is required to control toxic and nonconventional pollutants. Use of best conventional pollutant control technology (BCT) is required to control conventional pollutants. Technology-based limitations may be determined on a case-by-case basis. | Point source discharge to waters of the United States.[g,h] | 40 CFR 122.44(a) |
| | Water Quality Standards: | | |
| | Applicable federally approved state water quality standards must be complied with. These standards may be in addition to or more stringent than other federal standards under the Clean Water Act (CWA).[i] | | 40 CFR 122.44 and state regulations approved under 40 CFR 131 |
| | Discharge limitations must be established at more stringent levels than technology-based standards for toxic pollutants. | | 40 CFR 122.44(e) |
| | Best Management Practices: | | |
| | Develop and implement a best management practices program to prevent the release of toxic constituents to surface water. | | 40 CFR 125.100 |

## Table D-5. Selected Action-Specific Potential ARARs[a] (continued)

| Actions[b] | Requirements | Prerequisites for Applicability[b] | Citation |
|---|---|---|---|
| Discharge to POTW (Offsite Activity; See footnote j) | Discharge of pollutants that pass through the POTW without treatment, interface with POTW operation, contaminate POTW sludge, or endanger health/safety of POTW workers, is prohibited.<br><br>Specific prohibitions preclude the discharge of pollutants to POTWs that:<br><br>• Create a fire or explosion hazard in the POTW;<br><br>• Will cause corrosive structural change to the POTW;<br><br>• Obstruct flow resulting in interference;<br><br>• Are discharged at a flow rate and/or concentration that will result in interference;<br><br>• Increase the temperature of wastewater entering the treatment plant that would result in interference, but in no case raise the POTW influent temperature above 104°F (40°C). | Indirect discharge to a POTW. | 40 CFR 403.5 |
| | Discharge must comply with local POTW pretreatment program, including POTW-specific pollutants, spill prevention program requirements, and reporting and monitoring requirements. | | 40 CFR 403.5 and local POTW regulations |
| | RCRA permit-by-rule requirements (including corrective action where the NPDES permit was issued after November 8, 1984) must be complied with for discharges of RCRA hazardous wastes to POTWs. | Transport RCRA hazardous wastes to POTWs by truck, rail, or dedicated pipe (i.e., pipe solely dedicated for hazardous waste [as defined in 40 CFR 264], which discharges from within the boundaries of the CERCLA site to within the boundaries of the POTW). | 40 CFR 270.60 |

## Table D-5. Selected Action-Specific Potential ARARs[a] (continued)

| Actions[b] | Requirements | Prerequisites for Applicability[b] | Citation |
|---|---|---|---|
| Incineration | Analyze the waste feed. | RCRA hazardous waste. | 40 CFR 264.341 |
| | Dispose of all hazardous waste and residues, including ash, scrubber water, and scrubber sludge. | RCRA hazardous waste. | 40 CFR 264.351 |
| | No further requirements apply to incinerators that burn wastes listed as hazardous only when combined with other wastes, and that demonstrate no Appendix VII constituents that might reasonably be expected to be present. | | 40 CFR 264.340 |
| | Performance standards for incinerators are: | RCRA hazardous waste. | 40 CFR 264.343 |
| | • Achieve a destruction and removal efficiency of 99.99 percent for each principal organic hazardous constituent in the waste feed and 99.9999 percent for dioxins; | | |
| | • Reduce hydrogen chloride emissions to 1.0 kg/hr or 1 percent of the hydrochloric acid (HCl) in the stack gases before entering any pollution control devices; and | | 40 CFR 264.342 |
| | • Do not release particulates exceeding 180 mg/dscm, corrected for amount of oxygen in stack gas. | | 40 CFR 264.343 |
| | Monitor various parameters during operation of the incinerator. These parameters include: | | 40 CFR 264.343 |

## Table D-5. Selected Action-Specific Potential ARARs[a] (continued)

| Actions[b] | Requirements | Prerequisites for Applicability[b] | Citation |
|---|---|---|---|
| | • Combustion temperature<br>• Waste feed rate<br>• Combustion-gas velocity indicator<br>• Carbon monoxide | | |
| | Control fugitive emissions by:<br><br>• Keeping combustion zone sealed<br>• Maintaining combustion-zone pressure lower than atmospheric pressure | | 40 CFR 264.345 |
| | Use automatic cut-off system to stop waste feed when operating conditions deviate. | | |
| | Special performance standard for incineration of polychlorinated biphenyls (PCBs):<br><br>• Achieve a destruction and removal efficiency of 99.9999 percent;<br><br>• Either 2-second dwell time at 1,200 degrees Celsius ($^{o}$C) ($\pm$100) and 3 percent excess oxygen in stack gas, or 1.5-second dwell time at 1,600$^{o}$C and 2 percent excess oxygen in stack gas; and<br><br>• For nonliquid PCBs, mass air emissions from the incinerator shall be no greater than 0.001 g PCB/kg of the PCBs entering the incinerator. | Liquid and nonliquid PCBs at concentrations of 50 ppm or greater. | 40 CFR 761.70 |
| | Visible emissions, excluding condensed water vapor, from an incinerator may not reduce visibility through the exhaust effluent by more than 20 percent for more than 3 minutes in any 1 hour. | Destroy waste through incineration. | AS 46 and 18 AAC 50 |

## Table D-5. Selected Action-Specific Potential ARARs[a] (continued)

| Actions[b] | Requirements | Prerequisites for Applicability[b] | Citation |
|---|---|---|---|
| | Emissions of particulate matter from incinerators may not exceed, per cubic foot of exhaust gas corrected to 12 percent $CO_2$ and standard conditions:<br>• 0.15 grains for incinerators less than 2,000 pounds, but greater than equal to 1,000 pounds per hour rated capacity;<br>• 0.08 grains from incinerators of 2,000 pounds per hour rated capacity or larger. | | |
| Land Treatment | Before land treatment, the waste must be treated to best demonstrated and available technology (BDAT) levels or meet a no migration standard. | RCRA hazardous waste being treated or placed into another unit. | |
| | Ensure that hazardous constituents are degraded, transformed, or immobilized within the treatment zone. | | 40 CFR 264.271 |
| | Maximum depth of treatment zone must be no more than 1.5 meters (5 feet) from the initial soil surface and more than 1 meter (3 feet) above the seasonal high water table. | | 40 CFR 264.271 |
| | Demonstrate that hazardous constituents for each waste can be completely degraded, transformed, or immobilized in the treatment zone. | | 40 CFR 264.271 |
| | Minimize hazardous constituent run-off. | | 40 CFR 264.273 |
| | Maintain run-on/runoff control and management system. | | 40 CFR 264.273 |
| | Special application conditions if food-chain crops are grown in or on treatment zone. | | 40 CFR 264.276 |

## Table D-5. Selected Action-Specific Potential ARARs[a] (continued)

| Actions[b] | Requirements | Prerequisites for Applicability[b] | Citation |
|---|---|---|---|
| | Unsaturated zone monitoring. | | 40 CFR 264.278 |
| | Special requirements for ignitable or reactive waste. | | 40 CFR 264.281 |
| | Special requirements for incompatible wastes. | | 40 CFR 264.282 |
| | Special testing and location requirements for certain hazardous wastes. | RCRA Waste Nos. F020, F021, F022, F023, F026, and F027. | 40 CFR 264.283 |
| Placement of Waste in Land Disposal Unit | Land Disposal Restriction: | | |
| | Attain land disposal "treatment standards" before putting waste into landfill to comply with land ban restrictions. A treatment standard can be either: 1) a concentration level to be achieved (performance based) or 2) a specified technology that must be used (technology based). If the standard is performance based, any technology can be used to achieve the standard (See "Treatment When Waste Will be Land Disposed"). | Placement of RCRA hazardous waste in landfill, surface impoundment, waste pile, injection well, land treatment facility, salt dome foundation, salt bed formation, or underground mine or cave. | 40 CFR 268 (Subpart D) |
| | No person may cause or permit bulk materials to be handled, transported, or stored, or engage in an industrial activity or construction project without taking reasonable precautions to prevent particulate matter from becoming airborne. | Movement, disturbance, or excavation of soil. | AS 46, and<br>18 AAC 50 |
| Surface-Water Control | Prevent run-on and control and collect runoff from a 24-hour, 25-year storm (waste piles, land treatment facilities, landfills). | RCRA hazardous waste treated, stored, or disposed of after the effective date of the requirements. | 40 CFR 264.251(c),(d)<br>40 CFR 264.273(c),(d)<br>40 CFR 264.301(c),(d) |
| | Prevent over-topping of surface impoundment. | | 40 CFR 264.221(c) |

## Table D-5. Selected Action-Specific Potential ARARs[a] (continued)

| Actions[b] | Requirements | Prerequisites for Applicability[b] | Citation |
|---|---|---|---|
| Tank Storage (On Site) | Tanks must have sufficient structural strength so they do not collapse, rupture, or fail. | Store RCRA hazardous waste (listed or characteristic) not meeting small quantity generator criteria held for a temporary period greater than 90 days before treatment, disposal, or storage elsewhere (40 CFR 264.10), in a tank (i.e., any portable device in which a material is stored, transported, disposed of, or handled).<br><br>A generator accumulating or storing hazardous waste onsite for 90 days or less in compliance with 40 CFR 262.34(a) (1-4) is not subject to full RCRA storage requirements. Small quantity generators are not subject to the 90-day limit (40 CFR 262.34[c], [d], and [e]). | 40 CFR 264.190<br>40 CFR 264.191<br>40 CFR 264.193-194 |
| | Inspect the following: overfilling control, control equipment, monitoring data, waste level (for uncovered tanks), tank condition, aboveground portions of tanks (to assess their structural integrity), and the area surrounding the tank (to identify signs of leakage). | | 40 CFR 264.195 |
| | Repair any corrosion, crack, or leak. | | 40 CFR 264.196 |
| | At closure, remove all hazardous waste and hazardous waste residues from tanks, discharge control equipment, and discharge confinement structures. | | 40 CFR 264.197 |
| | Store ignitable and reactive waste to prevent the waste from igniting or reacting. Ignitable or reactive wastes in covered tanks must comply with buffer zone requirements in "Flammable and Combustible Liquids Code," Tables 2-1 through 2-6 (NFPA, 1981). | | 40 CFR 264.198 |

## Table D-5. Selected Action-Specific Potential ARARs[a] (continued)

| Actions[b] | Requirements | Prerequisites for Applicability[b] | Citation |
|---|---|---|---|
| | Storage Prohibitions: | | |
| | Banned wastes must be stored according to 40 CFR Part 268. When wastes are stored beyond 1 year, the owner/operator bears the burden of providing that storage is solely for accumulating sufficient quantities to allow for proper recovery, treatment, and disposal. | | 40 CFR 268.50 |
| Treatment in a Unit | Design and operating standards for unit in which hazardous waste is treated (see citations at right for design and operating requirements for specific unit). | Treatment of hazardous waste in a unit. | 40 CFR 264.190-264.192 (Tanks)<br>40 CFR 264.251 (Waste Piles)<br>40 CFR 264.273 (Land Treatment Unit)<br>40 CFR 264.343-345 (Incinerators)<br>40 CFR 264.601 (Miscellaneous<br>40 CFR 265.373 (Thermal Treatment Units) |
| Treatment When Waste Will be Land Disposed | Waste subject to ban on land disposal must attain treatment standards for each hazardous constituent in each listed waste, if the residual is to be land disposed. Treatment standards are expressed as concentrations in waste extract. | Disposal of contaminated soil and debris resulting from CERCLA response actions or RCRA corrective actions is subject to land disposal prohibitions and/or treatment standards. | 40 CFR 268.41, (Table CCWE) |

## Table D-5. Selected Action-Specific Potential ARARs[a] (continued)

| Actions[b] | Requirements | Prerequisites for Applicability[b] | Citation |
|---|---|---|---|
| Waste Pile | Use a single liner and leachate collection system. | RCRA hazardous waste, noncontainerized accumulation of solid, nonflammable hazardous waste that is used for treatment or storage. | 40 CFR 264.251 |
| | Waste put into waste pile subject to land ban regulations. | | 40 CFR Part 268 |

| | |
|---|---|
| CERCLA | Comprehensive Environmental Response, Compensation, and Liability Act |
| kg/hr | Kilograms per hour |
| mg/dscm | Milligrams per dry standard cubic meter |
| NPDES | National Pollutant Discharge Elimination System |
| ppm | Parts per million |
| POTW | Publicly Owned Treatment Works |
| RCRA | Resource Conservation and Recovery Act |

a. Currently only RCRA, CWA, and Safe Drinking Water Act (SDWA) requirements are included. State air quality requirements were added.
b. Action alternative from Record of Decision (ROD) keyword index, FY1986 Record of Decision Annual Report, January 1987, Hazardous Site Control Division, Environmental Protection Agency.
c. Some action-specific requirements listed may be relevant and appropriate even if RCRA definitions of storage, disposal, or hazardous waste are not met, or if the waste at the site is similar to but not identifiable as a RCRA hazardous waste.
d. Regional administrator may revise length of post-closure care period (40 CFR 264.117).
e. In many cases, there are no defined "units" at a CERCLA site. Instead, there are areas of contamination with differing concentration levels (including hot spots) of hazardous substances, pollutants, or contaminants. When RCRA hazardous wastes are moved into or out of an area of contamination, RCRA disposal requirements are applicable to the waste being managed and certain treatment, storage, or disposal requirements (such as closure) are applicable to the area where the waste is received.
f. Landfill units meeting the requirements of 40 CFR 264.301(f) are not subject to RCRA minimum technology requirements.
g. "Waters of the U.S." is defined broadly in 40 CFR 122.2 and includes essentially any water body and wetland.
h. Section 121 of the Superfund Amendments and Reauthorization Act (SARA) exempts onsite CERCLA activities from obtaining permits. However, the substantive requirements of a law or regulation must be met. In particular, onsite discharges to surface water are exempt from procedural NPDES permit requirements. Offsite dischargers would be required to apply for and obtain an NPDES permit.
i. Federal Water Quality Criteria may be relevant and appropriate depending on the designated or potential use of the water, the media affected, the purposes of the criteria, and current information. (CERCLA No. 121[d][B][i]). Federal Water Quality Criteria for the protection of aquatic life will be relevant and appropriate when environmental factors (e.g., protection of aquatic organisms) are being considered (Federal Register, Volume 50, No. 145, p. 30784 [July 29, 1985]).
j. Discharge to POTWs is considered an offsite activity; therefore, requirements related to discharge to a POTW are not ARARs, but are included in this table for reference. Offsite action must comply with all legally applicable requirements, both substantive and administrative. The concept of "relevant and appropriate" is not available for offsite actions.

Many of the action-specific ARARs are triggered by waste characterization. The RCRA requirements may be considered if wastes such as contaminated soil or groundwater are generated by removal or excavation, and are found to contain constituents which meet the criteria for characteristic hazardous waste. Placement in a land-based unit, storage, or treatment unit, would be affected by RCRA if hazardous waste is managed.

## 5.0 SPECIAL CONSIDERATIONS

The existing data on the site indicate that the release of hazardous constituents has occurred. Investigation- and remediation-derived wastes will require characterization to evaluate whether concentrations of constituents are sufficient to be regulated as hazardous wastes before offsite disposal. Disposal alternatives may be limited to RCRA-permitted facilities that are allowed to accept CERCLA offsite waste. Alternatives for onsite disposal may also be affected by the Land Disposal Restrictions (LDR) of HSWA.

The ARARs proposed in this chapter are tentative. When an assessment of the data from the 1994 field season is complete, the potential ARARs and TBCs will be further evaluated.

## 6.0 AGENCIES TO BE CONTACTED

State and federal agencies will be consulted with to implement best efforts to comply with the substantive requirements of laws and regulations. The following agencies may be contacted during the RI/FS:

- **Wetlands**
  - U.S. Fish and Wildlife Services
  - U.S. Army Corps of Engineers (USACE)
  - Alaska Department of Fish and Game
- **Floodplains**
  - Federal Emergency Management Agency
  - USACE
- **Groundwater**
  - ADEC
  - EPA Region 10, Water Programs
- **Surface Water**
  - ADEC
  - EPA Region 10, Water Programs
- **Air**
  - ADEC
  - EPA Region 10, Air Programs

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$CH_2M$ Hill. 1994. Fort Wainwright, underground storage tank sites investigation, delivery order 9, volumes I and II, August.

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NFPA (National Fire Protection Association). 1981. Flammable and combustible liquids code, tables 2-1 through 2-6.

# Appendix E CRP

# Operable Unit 5
# Community Relations Plan
# Fort Wainwright, Alaska

Prepared for

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# PREFACE

This Community Relations Plan (CRP) is a guide to facilitate communication between the public, the U.S. Army, and state and federal agencies regarding the cleanup of contamination at Fort Wainwright, Alaska. Fort Wainwright has been identified for cleanup because of the discovery of soil and groundwater contamination.

State and federal laws regulate how the contamination at Fort Wainwright will be cleaned up, and require public input. This CRP presents different ways for the Army and state and federal agencies to inform the public of cleanup activities, and provides information about opportunities for the public to offer input on the cleanup activities.

The introduction of this plan briefly describes the laws, programs, and requirements involved in the cleanup of Fort Wainwright. More detailed definitions of the laws and other technical terms are included in the glossary of terms at the end of this CRP.

# 1.0 INTRODUCTION

This Community Relations Plan (CRP) was prepared for Operable Unit 5 (OU 5) at Fort Wainwright, Alaska. OU 5 is one of five OUs being investigated under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), more commonly known as the Superfund. On August 30, 1990, Fort Wainwright was listed on the U.S. Environmental Protection Agency's (EPA's) National Priorities List (NPL), which identifies potentially contaminated sites targeted for action under CERCLA.

This CRP identifies current issues of community concern regarding potential contamination at the Fort Wainwright OU 5 source areas and proposes site-specific activities to address these concerns. The activities will be conducted by the U.S. Army in consultation with the EPA and the Alaska Department of Environmental Conservation (ADEC) during future remedial activities at Fort Wainwright. This CRP specifically addresses three source areas that make up the OU 5: the West Section, Former Quartermaster's Fueling System (West QFS) source area; the East Section, Former Quartermaster's Fueling System (East QFS) source area; and the Open Burning/Open Detonation source area (Figures E-1 and E-2).

## 1.1 CRP Overview

This CRP has been prepared for OU 5 based on the U.S. Army Corps of Engineers- (USACE-) approved Areawide Community Relations Plan for Fort Wainwright prepared by Ecology and Environment, Inc. (E&E) (1993). Separate CRPs have been prepared to address the other four OUs identified at Fort Wainwright.

The EPA and the ADEC, under CERCLA programs, and Fort Wainwright, under the Department of Defense's (DOD's) Installation Restoration Program (IRP), jointly conduct site-specific activities intended to inform and involve the public during the process of planning for remediation at hazardous waste sites. The activities proposed in this CRP are designed to inform interested citizens and local officials about the progress of remedial activities and to provide opportunities for public input during the planning of remedial actions at OU 5.

This CRP is based on interviews with representatives from the City of Fairbanks, residents, community groups, and post residents from July 27 through 30, 1992 (E&E, 1993). Information from EPA and Fort Wainwright files was also incorporated into this document.

The CRP is organized into five sections: Section 1 contains an introduction and general discussion of the program, Section 2 provides a description and history of the Fort Wainwright facilities, Section 3 describes the Fairbanks and Fort Wainwright communities and their concerns and issues, Section 4 describes planned and proposed community relations activities, and Section 5 provides references. The following attachments are also included:

- A - List of Contacts and Interested Parties
- B - Meeting Locations
- C - Information Repositories
- D - Draft Fact Sheet
- E - Technical Review Committee
- F - Technical Assistance Grant Program Information

## 1.2 The Remedial Process

Congress enacted CERCLA, more commonly known as Superfund, in 1980. CERCLA established a nationwide process for designating hazardous sites by evaluating their potential for endangering public health and the environment. It also established a process for cleaning up hazardous waste disposal and spill sites. In 1986, Congress passed the Superfund Amendments and Reauthorization Act (SARA), an amendment to CERCLA.

As previously stated, Fort Wainwright was placed on the NPL on August 30, 1990. The NPL is a list

of sites identified by the EPA for action under CERCLA. Sites are selected for inclusion on the NPL based on the Hazard Ranking System (HRS), a scoring system that evaluates potential risks to public health and the environment from releases or threatened releases of hazardous substances. The score is based on the actual or potential release of hazardous substances from a site through air, surface water, or groundwater. Once a site is included on the NPL, it becomes eligible for investigation and cleanup as part of the Superfund program. However, because Fort Wainwright is a DOD site, it is eligible to receive money from the Defense Environmental Restoration Account (DERA). DERA is the fund used by the DOD to comply with the investigation and cleanup requirements established by CERCLA.

It is important to note that all federal facilities, including Fort Wainwright, are subject to the same guidelines, rules, regulations, and criteria for hazardous substances as nonfederal facilities. Section 211 of SARA describes an environmental restoration program, specifically identified as IRP, for DOD facilities such as Fort Wainwright. Specific goals of the program include the following:

- Identifying, investigating, and cleaning up contamination from hazardous substances, pollutants, and contaminants;
- Correcting damage that may create an imminent and substantial threat to public health or welfare or to the environment;
- Demolishing and removing unsafe buildings and structures, including sites formerly used by the DOD or under the jurisdiction of the Secretary of Defense.

Although the DOD's IRP is closely patterned after the CERCLA program, CERCLA contains the statutory regulations that drive the investigation, cleanup, and community relations activities. The goals of the IRP are to evaluate contamination at military installations and to recommend cleanup alternatives for sites where previous disposal practices have resulted in environmental contamination. These efforts are carried out in cooperation with the appropriate state and federal agencies. The major differences between IRP and CERCLA are in the areas of management and funding. IRP activities are managed by the DOD; nondefense CERCLA sites are managed by the EPA. The DOD's DERA funds IRP activities; other CERCLA activities are funded through EPA's Superfund.

Within the IRP/CERCLA process, suspect sites undergo a routine series of activities to evaluate appropriate actions. Preliminary source evaluations (PSEs) feed into the remedial investigation/feasibility study (RI/FS) process. The RI/FS process includes selecting a preferred remedial alternative and developing a proposed plan, a record of decision (ROD), a remedial design (RD), and ultimately, a remedial action (RA).

Community relations activities will accompany each activity under IRP/CERCLA at Fort Wainwright. The following activities are planned for Fort Wainwright:

- PSE 1 - This activity involves collecting and reviewing all information associated with a suspect site to ascertain its location, past operations, and whether further study is necessary. This task has already been completed for OU 5.
- PSE 2 - If information indicating the past operations and locations of the potential source exists, the PSE 2 will consist of a site visit and/or collecting limited field data. This task has already been completed for OU 5.
- RI/FS - These activities focus on evaluating the type and extent of contamination at the site and identifying possible cleanup alternatives. A risk assessment, identifying potential environmental and human health risks related to contamination detected onsite, will be prepared during this activity.
- Proposed Plan - This plan proposes a preferred remedy for the site after a detailed analysis of the possible cleanup alternatives has been conducted.
- ROD - This document explains the remedial alternative that has been selected for the site.

The ROD is based on information and technical analyses generated during the RI/FS and includes consideration of public comments and community concerns.

- RD - This activity, which follows the ROD, involves developing the engineering specifications for the actual remediation.
- Remedial Action - Implementing the remedial alternative that has been selected for the site.

A Federal Facility Agreement (FFA) detailing the involvement and interaction between the Army, EPA Region 10, and the ADEC regarding cleanup activities at Fort Wainwright was signed in March 1992. The purpose of the FFA is to ensure that the environmental impacts associated with past and present activities at Fort Wainwright are thoroughly investigated and appropriate remedial actions are taken, as necessary, to protect public health and welfare and the environment. The FFA also establishes the roles of the agencies involved with the site cleanup. The Army has been established as the "lead" agency, or the agency responsible for the actual site cleanup. The FFA requires the Army to conduct investigation, cleanup, and community relations activities in accordance with CERCLA. The EPA and the ADEC are considered the "regulating community" or the agencies which set deadlines and review and approve proposed work for Fort Wainwright. The FFA facilitates cooperation, information exchange, and participation among these parties to the agreement.

The FFA identified 41 potential source areas, excluding potential petroleum, oils, and lubricants (POL) sources. Each potential source area has been included in one of five OUs. An RI/FS is being conducted at each of the five OUs.

# 2.0 FACILITY BACKGROUND

## 2.1 Post Description

The Fort Wainwright main post cantonment area is a 4,473-acre expanse east of downtown Fairbanks, partly within the city limits. Fort Wainwright also includes 8,825 acres of ranges and 898,306 acres of military maneuver areas.

Fort Wainwright is near the north side of the Tanana River Valley near the base of the hills that constitute part of the Yukon-Tanana Upland, a northwest-trending highland between the Yukon and Tanana Rivers. The Yukon-Tanana Uplands are characterized by rolling hills with elevations typically between 500 and 3,300 feet above mean sea level (MSL). South of the Yukon-Tanana upland is the Tanana-Kuskokwim Lowlands, a sediment-filled trough between the upland on the north and the Alaska Range on the south. The Fort Wainwright cantonment area, including the five OU 5 source areas, is within the Tanana-Kuskokwim Lowlands. This region is characterized by flat lowlands and gently rolling hills with elevations ranging from 350 to 950 feet above MSL. Bottomland forests and wetlands are typical in this area (University of Alaska, 1976).

## 2.2 Post History

On March 31, 1937, 2,684.01 acres representing the airfield and the bulk of the original Fort Wainwright cantonment area was established by Executive Order No. 7596 as Alaskan Cold Weather Environmental Airfield Station (ACWEAS). The ACWEAS was established specifically for military purposes, to include cold weather testing, training, and operational preparedness. On December 1, 1939, ACWEAS was officially designated Ladd Army Airfield (LAAF). During World War II, LAAF served as a transfer point in the lend-lease program. Between 1942 and 1945, almost 8,000 combat and transport aircraft were transferred to Soviet air crews at LAAF. In 1947, the newly formed U.S. Air Force assumed control of LAAF, which was redesignated Ladd Air Force Base (LAFB). LAFB served as a resupply and maintenance base for the remote distant early warning sites and experimental ice stations in the Arctic Ocean. During the Korean conflict, LAFB served as part of the defense network and was the site of the first Nike Hercules Missile launch from a tactical missile site in December 1959.

On January 1, 1961, the Army resumed control of LAFB and renamed it Fort Wainwright. The primary mission of Fort Wainwright is to train infantry soldiers in the Arctic environment; to prepare troops to defend the Pacific Rim in the event of war; and to rapidly deploy troops worldwide. Industrial operations at Fort Wainwright include the maintenance of fixed-wing aircraft, helicopters, and support vehicles.

## 2.3 Description of Operable Unit 5

OU 5 consists of three general investigation areas: the West QFS area, the East QFS area, and the OB/OD area.

The East and West QFS areas are in the northeastern region of the post cantonment area, and the OB/OD source area is within the small arms impact area south of the Richardson Highway, which is near the southern border of the post cantonment area (Figure E-2).

### 2.3.1 West QFS Area Background

The west section of the former QFS was located between Front Street and Gaffney Road. The source area includes Building 1599, north of the flight line on Front Street; abandoned gas pumps and pump islands between Front Street and Gaffney Road; a former fill stand south of Front Street; and gasoline and diesel storage tanks between Front Street and Gaffney Road.

A detailed description of past practices and the findings of previous investigations at this source area are included in Section 2 of the OU 5 RI/FS Management Plan (MP).

### 2.3.2 East QFS Area Background

The east QFS area is located on both sides of Gaffney Road. The fueling system consisted of aboveground storage tanks (ASTs), underground storage tanks (USTs), a pumphouse, a dispenser island, and a truck fill stand. Also included in this source area are Buildings 1565, 1053, 1054, 1060, and 1070, and the area from just south of Building 1565 and north to the Chena River.

A detailed description of past practices and the findings of previous investigations at this source area are included in Section 2 of the OU 5 RI/FS MP.

### 2.3.3 OB/OD Background

The OB/OD site is within the small arms impact area, approximately 1,500 feet north of the Tanana River and 1,500 feet south of the flood control dike. The site is along the east side of a gravel pit that is presently filled with water.

A description of past practices and the findings of previous investigations at this source area are included in Section 2 of the OU 5 RI/FS MP.

# 3.0 COMMUNITY BACKGROUND

## 3.1 Community Profile

Fairbanks is the second largest city in the state of Alaska, although it is surrounded by vast tracts of relatively uninhabited land. The population of the Fairbanks North Star Borough (FNSB) is 77,720 (FNSB, 1991). According to the Community Research Center, a State Data Center Affiliate, the FNSB experienced a 44 percent population growth between 1980 and 1990. According to 1990 census population figures, Fort Wainwright had the highest concentrations of young children in the FNSB, followed by Eielson Air Force Base (Eielson). Approximately one out of every four children under the age of 5 lives on one of these military installations. The population of the FNSB remains predominantly White (82 percent in 1990). Blacks constitute 7 percent of the total borough population and American Indians, Eskimos, and Aleuts represent 7 percent. Asians and Pacific Islanders represent 2.5 percent and other races comprise 1.5 percent of the borough's population.

In the FNSB, 71 percent of the households are families (comprised of persons who are related), while 29 percent are one-person or nonfamily households. Eighty-three percent of the borough's 19,032 family households are headed by married couples, a percentage higher than national and Alaskan averages. The military bases of Fort Wainwright and Eielson also have the largest average household size in the FNSB: 3.52 and 3.62 persons per household, respectively (FNSB, 1991).

The Fairbanks economy is highly dependent on government activities, including the city and borough of Fairbanks and Fort Wainwright, the largest employer in the region. Eielson also contributes significantly to the economy. Services and trade comprise the next largest source of employment. The University of Alaska, Fairbanks, and tourism play important economic roles, as well (Milepost, 1993).

The City of North Pole is also near Fort Wainwright. The population of North Pole is approximately 1,700, many of whom commute to work in Fairbanks. One of North Pole's primary employers is an oil refinery that produces heating fuel, jet fuel (JP4), and other petroleum products (Milepost, 1993).

## 3.2 History of Community Involvement

In September 1991, HLA conducted a records search to review aerial photographs, geological surveys, and hydrological and topographic maps at selected government agencies and private businesses. Personnel identified by the USACE as having been involved with hazardous waste generation, management, and disposal were also interviewed. In 1991, a 30-day public request for information was printed in the *Fairbanks Daily News Miner*, and broadcast over three Fairbanks radio stations. The advertisement in the newspaper was published from November 8 through December 6, 1991. The radio advertisement was broadcast twice per day on radio stations KIAK, KFAR, and KWLF from November 8 through December 7, 1991. Both advertisements included an address for written responses and a toll-free telephone number. One written response was received and seven people called the toll-free number to relay information about Fort Wainwright to Harding Lawson Associates (HLA).

Little contact regarding potential contaminant sources at Fort Wainwright occurred between the Army, the ADEC, the EPA, and on- and offpost residents before the community interviews in July 1992. Of those interviewed, three had been previously contacted. One had been interviewed by HLA for the Army regarding possible contaminant source locations at Fort Wainwright (this contact was part of the 1991 effort); in November 1991, the ADEC contacted representatives of two churches bordering the west side of the post near the tank farm regarding contamination detected in their groundwater wells; and one civilian

resident living near Fort Wainwright reportedly contacted the ADEC regarding oil spills from the Fairbanks-Eielson Pipeline onto his property.

To develop this and other OU CRPs, several community members in the Fort Wainwright/Fairbanks area were interviewed during the summer of 1992. Only one interviewee had been involved with any activities underway to remedy contamination at Fort Wainwright. The interviewee was initiating a program in his housing area to stop the disposal of waste oil and antifreeze in the post landfill.

Other than newspaper articles, only limited direct communication occurs between Fort Wainwright and the neighboring cities of Fairbanks and North Pole. The mayors of both cities have some contact with Fort Wainwright representatives, specifically during ceremonial activities on post. Post officials participate in Fairbanks Chamber of Commerce meetings regularly to discuss local business issues.

## 3.3 Community Interview Program

Community interviews were conducted by E&E and the Army on July 27 through 30, 1992. The purpose of the community interviews was to identify community perceptions and concerns associated with the environmental studies being performed at Fort Wainwright. A total of 25 formal interviews were conducted with post residents, community members, community groups, and representatives of federal, state, and local government. A telephone interview was conducted with a member of a local environmental organization on August 20, 1992.

Most of those interviewed recalled newspaper articles about environmental problems associated with Fort Wainwright, but could not remember details. It was generally perceived that contamination problems at Fort Wainwright are minimal and do not pose an immediate health threat or danger.

### 3.3.1 Government Credibility

Interviews with several community members indicated that, although there is a general distrust of the federal government, Fort Wainwright officials are entrusted to handle contamination problems promptly and effectively. Many interviewees mentioned the Alaskan Battery Enterprises NPL site located in Fairbanks near Fort Wainwright.

### 3.3.2 Post Operations

Fort Wainwright residents interviewed had a limited understanding of Fort Wainwright's operational history, but a fairly good understanding of current operations on post. In contrast, Fairbanks residents had only a fair understanding of the post history and few knew about the post's current activities.

### 3.3.3 Media Coverage

Although most people interviewed read the local newspaper and felt that it did a good job of reporting local news, several people indicated the newspaper was not a consistently credible source of information.

Public meetings are a communication method commonly used in Fairbanks. Most of the interviewees had attended public meetings in the past and felt that public meetings are too commonly used and have low attendance. Newsletters and fact sheets are also frequently used in Fairbanks, and caution was expressed that too much information about Fort Wainwright through direct mail would be ineffective. Radio and television were recommended as effective media for communicating with the citizens of Fairbanks.

### 3.3.4 Community Involvement

Other suggestions for community outreach included presentations to groups that may be interested in the Fort Wainwright cleanup, such as the Fairbanks Chamber of Commerce, and the city councils of Fairbanks and North Pole. Several interviewees also expressed an interest in a tour of potential source locations at Fort Wainwright.

Currently, only one environmental organization, the Northern Alaska Environmental Center, has expressed interest in cleanup activities at Fort Wainwright.

## 3.4 Key Community Concerns and Issues

Several community concerns and issues were identified through the community interviews and are presented below. Because the CRP promotes two-way communication between the Army and the public, personal contact with community members will continue throughout the RI/FS process. Other concerns may be identified in the future.

### 3.4.1 Water Supply

The primary concern expressed by residents of both Fort Wainwright and Fairbanks was possible contamination of drinking water. Groundwater in the Fairbanks area is the source of drinking water. Contamination has been detected in the upper aquifer, but not in the deep aquifer which supplies drinking water.

### 3.4.2 Health Concerns

In addition to the concern about groundwater contamination, many interviewees expressed general concern about public health and the need for open and honest communication between Fort Wainwright and the public.

### 3.4.3 Financial and Economic Considerations

Due to the public's perception that the post contamination is minimal, concern was expressed that the analysis and selection of remedial activities should take into consideration both the environmental benefit of the cleanup and comparative costs.

Concerns about the local hiring practices of Fort Wainwright were expressed in several of the interviews. Five people interviewed stated that local hiring practices are an important issue to them. These interviewees were concerned that contractors from other states would be used instead of members of the local work force. It is important to note that the USACE, the agency involved in contracting work for the Army, has a 95 percent Alaskan-hire requirement. The only exception to this requirement is in the case of an emergency response.

### 3.4.4 Other Issues of Concern

Other issues mentioned included the sewer line between Fort Wainwright and the City of Fairbanks, activities at Fort Greely, surface-water and air contamination, and household hazardous waste disposal in the post landfill.

# 4.0 COMMUNITY RELATIONS PROGRAM

## 4.1 Goals and Objectives

The following are goals of the community relations program:

- Inform interested citizens and local officials about the progress of investigations and remedial activities,
- Encourage two-way communication between Fort Wainwright and the community,
- Provide opportunities for the public to participate in the planning of remedial actions at Fort Wainwright.

Community concern may increase as RI and remedial activities proceed. The community relations activities described below are designed to meet the program goals. Promoting communication with the public during the investigations and cleanup is especially important to effectively address community concerns.

## 4.2 Community Relations Activities

To meet the outlined CRP goals and objectives, the Army plans to undertake specific community relations activities, including SARA Title III requirements, to ensure that the community remains well informed and has the opportunity to express its concerns. Figure E-3 outlines a general schedule of community relations activities.

A proposed schedule for selected community relations activities follows:

- RI/FS proposed plan (January 16, 1997, FFA deadline)
- Public comment period (January 16 through February 14, 1997)
- Public meeting (January 29, 1997)
- Prepare draft responsiveness summary (February 15 through March 7, 1997)
- Review of draft responsiveness summary by Remedial Program Manager (March 8 through April 7, 1997)
- Prepare final responsiveness summary (April 8 through April 21, 1997)
- Issue draft final ROD document (May 15, 1997, FAA deadline)

With the exception of the FAA deadlines noted, the proposed dates are estimated and are subject to revision.

It is imperative that efficient communication is maintained for the community relations program to be effective. The following communication tools will be employed to disseminate information among agencies, civilian and military personnel, the general public, the media, and the communities of Fairbanks, Fort Wainwright, and North Pole.

### 4.2.1 Technical Review Committee

A technical review committee (TRC) (as required by SARA Title II, Section 211), has been established for Fort Wainwright to review documentation on all OUs. The TRC includes representatives from Fort Wainwright, the ADEC, the EPA, the FNSB, the City of Fairbanks, the City of North Pole, and designated representatives from the community. The committee will meet at key points during the investigation and cleanup of each OU (for example, when the draft RI and draft FS are completed), or at least every 6 months. A list of TRC members is included in Attachment E.

The TRC will serve as an ongoing forum to address the concerns and questions that citizens wish to present to the representatives. The TRC will also serve as a mechanism for distributing current site information to the public through the representatives.

### 4.2.2 Fact Sheets/Updates

Fact sheets concerning the Fort Wainwright operation will be distributed periodically to the parties included on the current mailing list. These fact sheets will provide information summarizing recent progress at the OU 5 site and outlining upcoming activities. They will be written in layman's terms, designed to be understood by the general public. The fact sheets will provide ongoing reports of new findings, cleanup status, and general investigation status, and will promote continued dialogue between the Army and the concerned public.

The fact sheets also contain a history of the site, an outline of the CERCLA/IRP process, community relations activities, and the locations of information repositories. A copy of the fact sheet is included in Attachment D.

### 4.2.3 Information Repositories

The Army will maintain information repositories at locations on and off the post to provide interested parties with information about the remediation program. Information contained in the repositories will include the CRP, Technical Assistance Grant information, the RI/FS work plan, the RI report, the FS report, a responsiveness summary, a signed ROD, an administrative order of consent or consent decree, and the remedial design work plan. Other materials recommended for the repositories include copies of CERCLA, RCRA, and the National Contingency Plan (NCP); documentation of sampling results; brochures, fact sheets, and other information about the Superfund program and the site; copies of press releases and newspaper clippings that refer to the site; and other relevant material. Interested parties will be notified of the repository locations through the mailing list. A current list of information repositories is provided in Attachment C.

The information repository and the administrative record are similar in content. All repositories will include an index of the administrative record, containing the legal file of documents on which the Army bases the selection of a response action for the site. The administrative record, including public comments, will be available at the Directorate of Public Works (DPW) at Fort Wainwright, and at EPA Region 10 headquarters in Seattle. When the administrative record is in place, the public will be notified by mail.

### 4.2.4 Mailing List

The Army will establish a mailing list for those who wish to receive information about the site. The mailing list will be updated regularly by the Army to include people who contact the EPA, the ADEC, or Fort Wainwright, or who return the mail-back coupon included in the fact sheet. Attachment A presents a list of identified contacts and interested parties currently on the mailing list.

### 4.2.5 Public Meetings

When the CRP is published, a public meeting will be held to provide the community with a final analysis of the Fort Wainwright project. This meeting will be well publicized and will serve to inform the public and to provide a forum for opinions and reactions. Discussions will include current onsite activities and the proposed course of action.

Information about obtaining a transcript of the public meeting will be announced at the meeting. Suggested locations for the public meeting are presented in Attachment B.

### 4.2.6 Press Releases and Conferences

The Army will issue press releases at key points in the investigation and remediation process to include a wider audience in the significant events at the site. Press conferences may also be held to provide information to the local community about activities at the site.

An advertisement containing information provided in the press release may be appropriate to decrease inaccurate interpretation of facts. Radio and television may also be appropriate media for reaching the citizens of Fairbanks.

### 4.2.7 Public Notices

The Army will provide an official announcement of activities and plans, encouraging public involvement in the decisions-making process. A public notice is typically an advertisement published in a major local newspaper, broadcast on local radio stations, or sent as individual mailings to announce or solicit public comment. A public notice must be provided when

- The engineering evaluation/cost analysis becomes available,
- The administrative record file and information repository becomes available,
- The RI/FS and the proposed plan become available,
- A public comment period is held on the RI/FS and the proposed plan,
- The response action has been selected and the ROD is signed,
- An enforcement agreement is embodied in a consent decree,
- Remedial action is taken or a settlement of consent decree is entered into that differs significantly from the final remedial plan,
- The notice of intent to delete a site from the NPL becomes available.

Public notices should also announce the availability of fact sheets and the scheduling of public comment periods and meetings.

### 4.2.8 Public Comment Period

The Army will hold at least one 30-day public comment period when the proposed plan for OU 5 is released. Under the NCP, anyone can request an additional 30 days for the comment period if the request is made in a timely manner. The public may comment on the proposed plan, FS, or any other document in the administrative record. Comments may be submitted to the Army in writing or at the public hearing.

### 4.2.9 Responsiveness Summary

The Army will prepare a responsiveness summary for OU 5, listing all comments received during the comment periods and responses to the comments. The responsiveness summary will be issued with the ROD for OU 5 and will be made available in the information repositories.

### 4.2.10 Small Group Meetings

The Army will conduct small group meetings to address the concerns of specific groups. Suggested groups include the Fairbanks Chamber of Commerce, the city councils of Fairbanks and North Pole, and interested parties in potentially affected neighborhoods.

The purpose of small group meetings is to inform citizens and state and local officials of site activities, to answer questions, and to address misconceptions and misunderstandings. These meetings will increase awareness of the residents' concerns to promote a good working relationship.

### 4.2.11 Contact Person

A contact person associated with the Army, the ADEC, and the EPA will assume responsibility for addressing citizens' concerns, answering individual questions, and responding to inquiries from the media. The first point of contact is the Fort Wainwright Public Affairs Officer, Ms. Linda Douglas, (907) 353-6701. Names of the contact persons for ADEC and EPA will be provided in fact sheets and public notices.

### 4.2.12 CRP Revisions

Once the ROD has been issued for the Fort Wainwright site, the CRP may be revised to incorporate community relations activities and identify changes in community concerns for the RD/RA phase. Additional community members may be interviewed before the start of cleanup to identify additional concerns. The revised CRP would be placed in the information repository.

## 4.3 Technical Assistance Grant Program

An initial grant of up to $50,000 per NPL site may be awarded to a single representative group of individuals affected by an NPL Superfund site. These Technical Assistance Grants provide community members with the means to hire a technical advisor to review and comment on technical aspects of scheduled cleanup activities. Grantees can receive two additional $25,000 extensions, for a total of $100,000.

Information about applying for a Technical Assistance Grant from the EPA will be available in the information repository, and more detailed information is included in Attachment F. The EPA Region 10 Coordinator will assist groups interested in completing an application.

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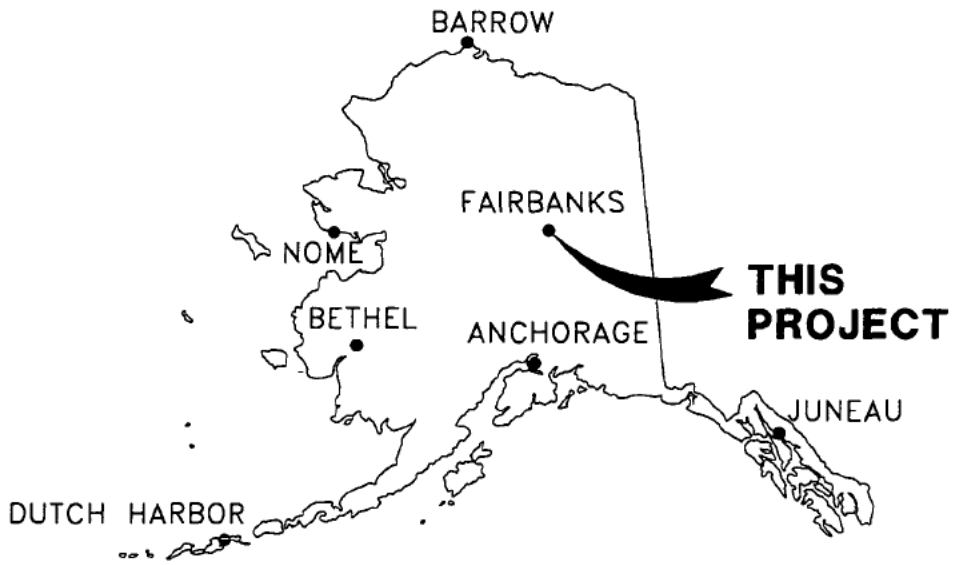
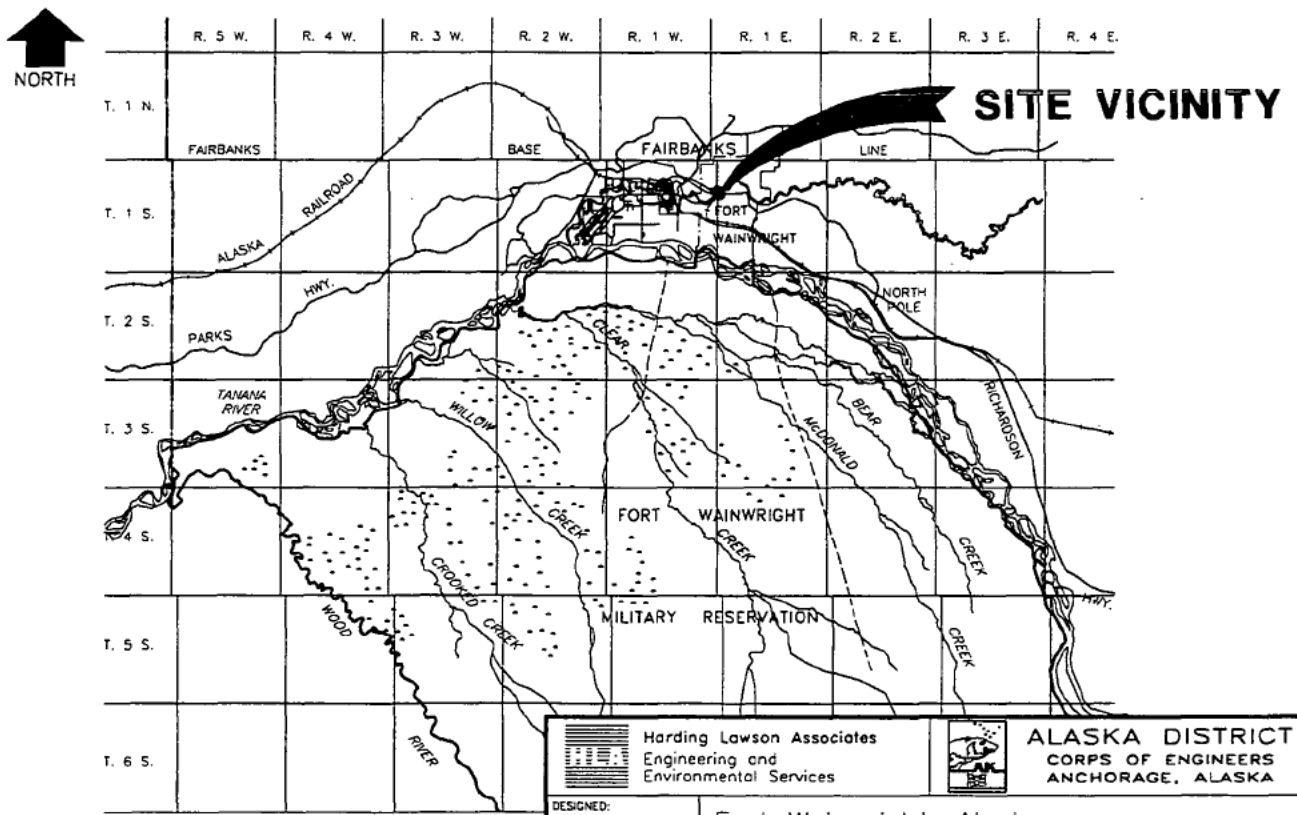
# FIGURES




0 4 8 16
SCALE IN MILES

Harding Lawson Associates
Engineering and Environmental Services

ALASKA DISTRICT
CORPS OF ENGINEERS
ANCHORAGE, ALASKA

| | |
|---|---|
| DESIGNED: | Fort Wainwright, Alaska |
| DRAWN: JP | OU 5, RI/FS Management Plan |
| TRACED: | |
| CHECKED: | |
| SUBMITTED: | **Vicinity Map** |
| CHIEF, ARCHITECTURAL SECTION | |
| RECOMMENDED: | APPROVED: |
| CHIEF, MILITARY TECHNICAL ENGINEERING BRANCH | CHIEF, ENGINEERING DIVISION |
| | SCALE: NOTED |
| | DATE: 12/94 |
| | SPEC. NO. |
| | FIGURE **E-1** |

195b

FAIRBANKS

CHENA RIVER

WEST SECTION, FORMER QUARTERMASTER'S FUELING SYSTEM AREA

EAST SECTION, FORMER QUARTERMASTER'S FUELING SYSTEM AREA

DENNIS MANOR SUBDIVISION

MONTEREY LAKE

SOUTH GATE HOUSE

RICHARDSON HWY

BADGER ROAD

ARCTIC SURPLUS

NORTH

0 1250 2500 5000

SCALE IN FEET

LEGEND

- ROADS AND PARKING, PAVED
- ROADS AND PARKING, UNPAVED
- RESERVATION BOUNDARY
- RAILROAD
- STREAM
- SHORELINE
- TRAIL
- BRIDGE

FLOOD CONTROL DIKE

POND (FORMER BORROW AREA)

OPEN BURNING/OPEN DETONATION AREA

GOOSE ISLAND

TANANA RIVER

MERIDIAN ISLAND

Harding Lawson Associates
Engineering and Environmental Services

ALASKA DISTRICT
CORPS OF ENGINEERS
ANCHORAGE, ALASKA

DESIGNED:
DRAWN: BJ
TRACED:
CHECKED:
SUBMITTED:
CHIEF, ARCHITECTURAL SECTION
RECOMMENDED:
CHIEF, MILITARY TECHNICAL ENGINEERING BRANCH

Fort Wainwright, Alaska
OU 5, RI/FS Management Plan

**Site Map**

APPROVED:
CHIEF, ENGINEERING DIVISION

DATE: 10/94

SCALE: NOTED

SPEC. NO.

FIGURE
**E-2**

1195

# ATTACHMENT A

# LIST OF CONTACTS AND INTERESTED PARTIES

# ATTACHMENT A

## LIST OF CONTACTS AND INTERESTED PARTIES

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# ATTACHMENT B

# MEETING LOCATIONS

# ATTACHMENT B

## MEETING LOCATIONS

Noel Wien Library
1215 Cowles Street
Fairbanks, Alaska 99701
Contact: Ms. Kate Levit, (907) 459-1020

Conference room holds 30, auditorium holds 100, microphone and slide projector available for small fee.

Fort Wainwright Post Library
Building 3700
Fort Wainwright, Alaska 99703
Contact: Mrs. Smith, (907) 353-2642

Holds 40, frequently used, make reservations far in advance.

# ATTACHMENT C

# INFORMATION REPOSITORIES

# ATTACHMENT C

# INFORMATION REPOSITORIES

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**OFFPOST**

Noel Wien Library
1215 Cowles Street
Fairbanks, Alaska 99701
(907) 459-1020

Hours:

Monday, Tuesday, Wednesday: 10:00 a.m. - 9:00 p.m.
Thursday, Friday: 10:00 a.m. - 6:00 p.m.
Saturday: 10:00 a.m. - 5:00 p.m.
Sunday (closed June, July, and August): 1:00 p.m. - 5:00 p.m.

**ONPOST**

Fort Wainwright
Environmental Restoration Division Office
Building 3023
Fort Wainwright, Alaska 99703
(907) 353-9949, (907) 353-6160

Hours:

Monday through Friday: 8:00 a.m. - 5:00 p.m.
(closed holidays)

Fort Wainwright
Post Library
Building 3700
Santiago Street
Fort Wainwright, Alaska 99703
(907) 353-2642

Hours:

Tuesday and Thursday, 3:00 p.m. - 9:00 p.m.
Wednesday, Friday, and Saturday, 12:00 p.m. - 6:00 p.m.
Sunday, Monday, and Holidays, closed

# ATTACHMENT D

# DRAFT FACT SHEET

# Environmental Restoration News

U.S. Army Alaska — Fort Wainwright

Fairbanks, Alaska — August 1995 — Volume 3, Number 2


# Community Relations Highlights

DRAFT

## WELCOME

This newsletter is published quarterly by the United States Army (Army) at Fort Wainwright and is distributed to all interested individuals and organizations who request copies. The Army, United States Environmental Protection Agency (***EPA***), and Alaska Department of Environmental Conservation (***ADEC***) are working together at Fort Wainwright in accordance with a Federal Facilities Agreement (***FFA***) signed by the three agencies in 1992. The goal of *Environmental Restoration News* is to inform the public about the status of investigation and cleanup activities at Fort Wainwright. Terms appearing in ***bold and italics*** in this newsletter are defined in the glossary on page 5.

### Comment Period on Proposed Plans

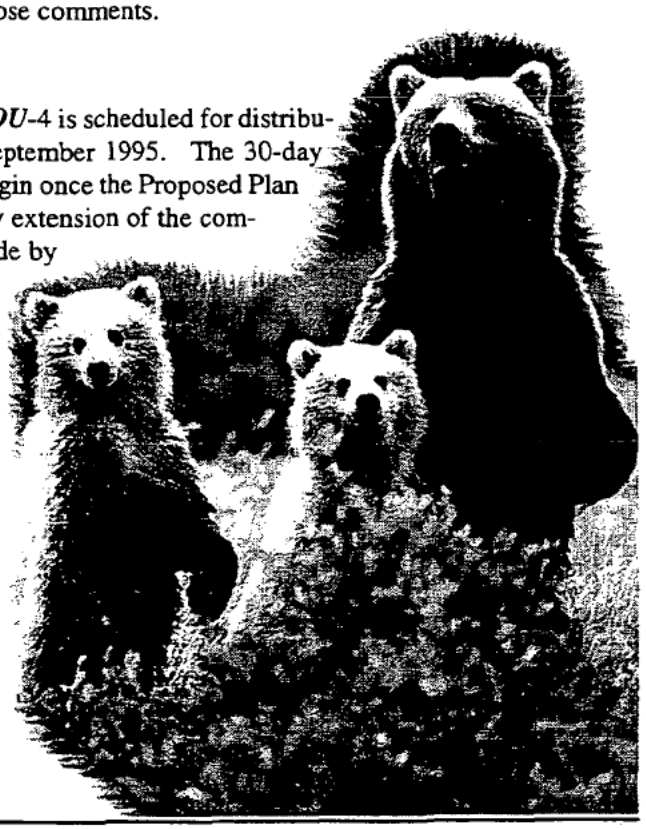
The *Proposed Plan for Operable Unit 3* and the *Proposed Plan for Interim Remedial Action at Operable Unit 1 Chemical Agent Dump Site* were released to the public on April 19, 1995. The public was encouraged to participate in the selection of the cleanup alternatives for Operable Unit (***OU***)-3 and the Chemical Agent Dump Site during the 30-day public comment period from April 19 to May 19, 1995. Both documents presented cleanup alternatives being considered by the Army, ***EPA***, and ***ADEC***.

Interested citizens were invited to comment on the Proposed Plans in writing by mailing comments to the Fort Wainwright project manager, by calling a toll-free telephone number to record a comment, or in person at the public meeting on April 25, 1995,at the Noel Wien Library in Fairbanks.

Responsiveness Summaries, addressing public comments received during the comment period, will be included in the Record of Decision (***ROD***) for each cleanup action. They will summarize comments received during the comment period and provide responses to those comments.

### Coming Soon

The Proposed Plan for ***OU***-4 is scheduled for distribution to the public in September 1995. The 30-day comment period will begin once the Proposed Plan is distributed. A 30-day extension of the comment period can be made by request from a member of the public. The ***OU***-4 Proposed Plan will present all the cleanup alternatives for each source area in ***OU***-4 and will identify the preferred alternatives selected by the Army, ***EPA***, and ***ADEC***. A public meeting will take place during the comment period.



# Operable Unit Updates

There are five ***operable units (OUs)*** at Fort Wainwright. This update provides the status of investigation and cleanup efforts for each ***OU***. For more information about each ***OU***, see the previous issue of *Environmental Restoration News*, Volume 3, No. 1.

**Operable Unit 1**

***OU***-1 consists of five source areas, four of which are being investigated in the ***Remedial Investigation/Feasibility Study (RI/FS)*** of ***OU***-1. The four source areas under investigation are N-4 (the Drum Site West of Defense Reutilization and Marketing Office [***DRMO***] Salvage Yard), Building 2077, the former location of Building 1599, and the 801 Drum Burial Site. Fieldwork for the ***RI*** is scheduled to begin this summer; the ***FS*** will begin following completion of the ***RI*** during summer 1996. The Army is completing a Management Plan to conduct the ***RI/FS***.

The fifth source area, the Chemical Agent Dump Site (also referred to as the Chemical Warfare Disposal Area), was chosen by the Army, ***EPA***, and ***ADEC*** for an Interim Remedial Action to allow a response to occur before completion of the ***RI/FS*** for the rest of ***OU***-1. The Proposed Plan for Interim Remedial Action at the Chemical Agent Dump Site was released to the public on April 19, 1995, for a 30-day comment period. The Proposed Plan describes the site, presents three alternatives for Interim Remedial Action, and states the preferred alternative. Based on public comments received on the Proposed Plan, the Army, ***EPA***, and ***ADEC*** will select one Interim Remedial Action. The selected action will be discussed in the ***ROD*** to be released during August 1995. More information about the Chemical Agent Dump Site,including copies of the Proposed Plan, can be reviewed in the Administrative Record or the information repositories.

**Operable Unit 2**

***OU***-2 consists of three source areas: Building 1168, the ***DRMO*** Salvage Yard, and the North Post Site. ***RI*** fieldwork was completed in late 1994, and a final ***RI*** report will be available in the information repositories and the Administrative Record during September 1995. Along with this ***RI*** report, the Army is preparing a baseline risk assessment to evaluate potential risks posed to human health and the environment at the ***OU***-2 source areas.

The ***OU***-2 ***FS***, which will identify various cleanup alternatives for the ***OU***-2 source areas, is scheduled for completion in September 1995. To support the ***FS***, a pilot study to test cleanup methods is being conducted at Building 1168 for soil and groundwater contamination. Cleanup technologies, including air injection and soil vapor extraction, have been in place since fall 1994.

A report on the pilot study, which will summarize project results, is scheduled for completion in December 1995.

**Operable Unit 3**

***OU***-3 consists of five source areas: the Tank Farm Facility; the Railcar Off-Loading Facility; and Mileposts 2.7, 3.0, and 15.75 along the Fairbanks-Eielson Pipeline. Based on the results of the ***RI/FS***, the agencies released a Proposed Plan to the public on April 19, 1995. The Proposed Plan describes alternative methods of cleaning up the ***OU***-3 source areas. These methods focus on cleanup of petroleum contamination found at all five ***OU***-3 source areas, as well as lead contamination found in surface soil at the Tank Farm Facility. After evaluating public comments received on the Proposed Plan, the agencies will select a cleanup alternative for ***OU***-3; the decision will be announced in the ***ROD*** scheduled for release later this Summer.

**Operable Unit 4**

***OU***-4 consists of three source areas: the Landfill Area, the Power Plant Coal Storage Yard, and the Fire Training Pits. Final versions of the ***RI*** and ***FS*** will be completed during June 1995. The Army is preparing an ***OU***-4 Proposed Plan, which will be released to the public for comment in September 1995. Copies of the ***OU***-4 Proposed Plan will be mailed to all parties on the Fort Wainwright Community Relations mailing list.

**Operable Unit 5**

***OU***-5 consists of several groundwater plumes located north of the airfield in areas known as the former east and west quartermaster areas. Groundwater contamination in these areas is related mainly to fuels and fuel additives. ***OU***-5 also includes a former open buring/open detonation (***OB/OD***) site located south of the Richardson highway near the Tanana Flats flood control dike. The ***RI/FS*** Management Plan for ***OU***-5 is complete and ***RI/FS*** fieldwork began in July 1995. The draft ***RI/FS*** reports are scheduled for completion during October 1996.

A basewide human health and ecological risk assessment will be conducted on Fort Wainwright along with the ***OU***-5 investigation. This risk assessment will focus on cumulative effects from on-base contamination to human and ecological receptors. The risk assessment report is scheduled for completion during fall 1996.

# Spotlight on Technology

### Soil Vapor Extraction

Soil vapor extraction is a remedial method that uses a system of perforated pipes in extraction wells or trenches along with vacuum pumps. The air blowers or vacuum pumps draw air out of the extraction wells, creating a vacuum. This vacuum causes the air in the soil, including any volatiles, to be pulled toward the extraction wells. The air/volatile mixture is drawn out of the extraction wells and either is collected for further treatment or discharged directly to the atmosphere. This system also benefits biodegradation of contaminants by using the air as an oxygen supply for bacteria. Soil vapor extraction has been used successfully in Alaska to clean up contaminated soils. Figure 1 shows a typical soil vapor extraction system.

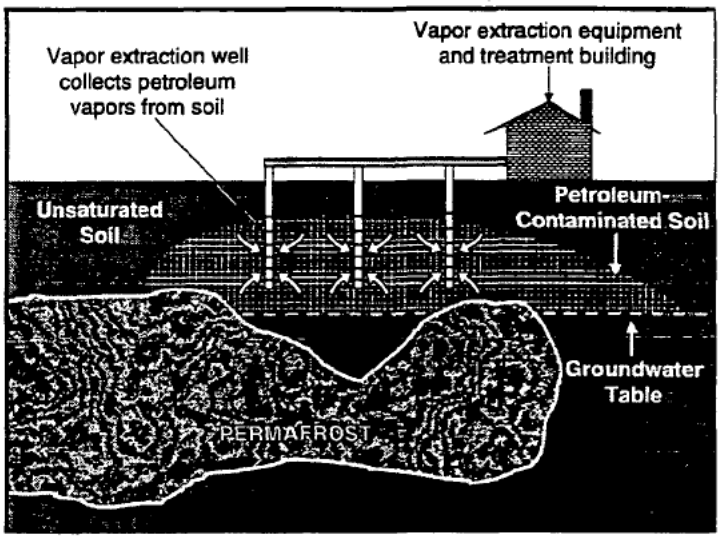



**Figure 1**
**Soil Vapor Extraction**

### Air Sparging

Air sparging is a remedial technology in which air is injected into groundwater below the layer of contamination. Air bubbles float up though the contaminated groundwater, causing contaminants to evaporate upward into the overlying soil. The vapors then are captured by a soil vapor extraction system previously described. The air sparging and soil vapor extraction systems would remediate the volatile portion of petroleum by volatilization and the heavier portion of petroleum by enhanced bioremediation. Air sparging coupled with vapor extraction can be particularly effective at treating contamination in the saturated zone, and has been proven effective at Fort Wainwright. Figure 2 shows a typical groundwater air sparging system.

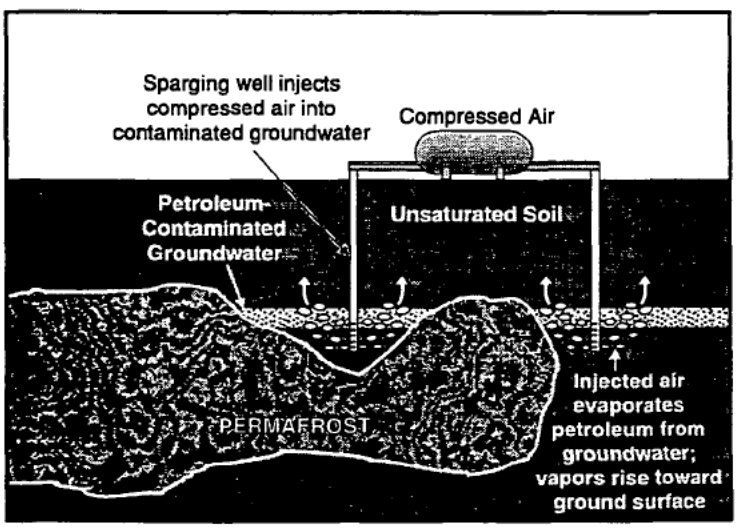



**Figure 2**
**Groundwater Air Sparging**

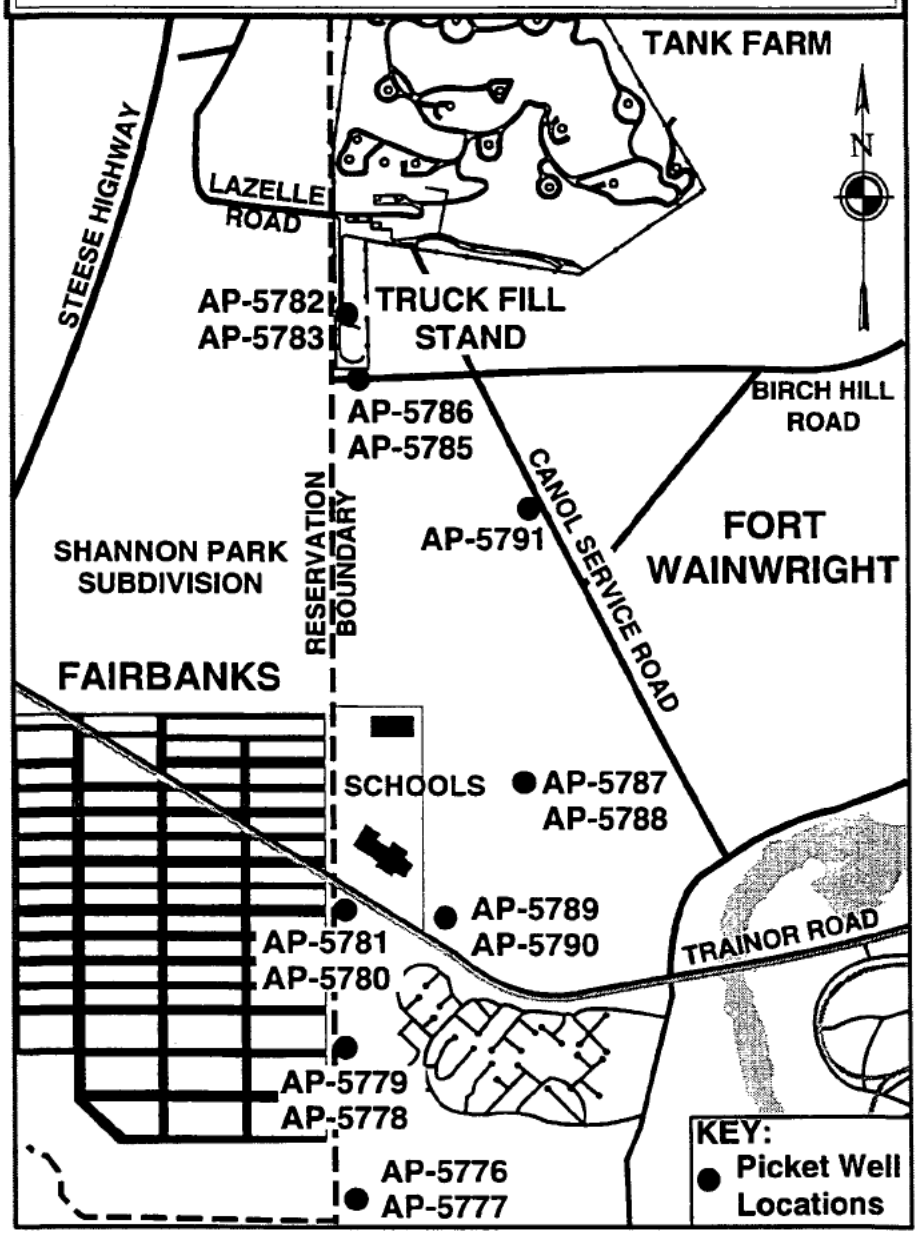
# Groundwater Monitoring Program at Fort Wainwright

The Army began a groundwater monitoring program at Fort Wainwright in 1989 to begin collecting information regarding groundwater conditions at Fort Wainwright. The program study area included Fort Wainwright's main post area north of the Richardson Highway. The groundwater monitoring program study consisted of installing new monitoring wells, integrating existing wells into the monitoring well network, and updating inventory records for previously installed wells. The study also included sampling monitoring and supply wells and testing groundwater for contaminants of concern.

The 1990, 1991, and 1992 groundwater monitoring efforts involved gathering information about a limited number of groundwater wells on Fort Wainwright. Summary reports were prepared for each year. In 1992, 15 wells, called Picket Wells, were installed to monitor groundwater quality in the northwest portion of the main post area along the installation boundary (see Figure 3). Since they were installed, the Picket Wells have been sampled quarterly. The Army is especially interested in analytical results from the Picket Wells because they are an indicator of possible contaminant migration off post.

In 1993, the basewide groundwater monitoring effort was scaled down because of the large number of ***CERCLA*** site investigations and ***RI/FS*** activities. These investigations included groundwater monitoring. A summary report, which summarizes field efforts and presents information regarding groundwater quality sampling and analysis, groundwater quality results, and groundwater elevation contours, was prepared for all the groundwater data collected during the 1993 investigations.

**Figure 3 Picket Well Locations**




A similar groundwater monitoring effort occurred in 1994. The draft report for this effort was completed in April 1995, and the final version is scheduled to be released in September 1995.

Copies of all groundwater monitoring reports are available for review in the information repositories and the Administrative Record.

## Glossary

**ADEC** Alaska Department of Environmental Conservation

**CERCLA** Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (also known as Superfund)

**DRMO** Defense Reutilization and Marketing Office

**EPA** United States Environmental Protection Agency

**FFA** Federal Facilities Agreement. A legal document that details the involvement and interaction between the Army, ***EPA***, and ***ADEC*** regarding cleanup activities at Fort Wainwright.

**FS** Feasibility Study. A study of the results of the remedial investigation to establish criteria for cleanup and to identify and evaluate cleanup alternatives for a site or ***OU***.

**OB/OD** Open Burning/Open Detonation.

**OU** Operable Unit. An operable unit is a unit in which sources have been grouped together based on similarities of contaminant types, source locations, or anticipated clean-up actions. For example, the Chemical Agent Dump Site is a part of ***OU***-1 on Fort Wainwright.

**Responsiveness Summary** A summary of oral and/or written public comments received during a comment period and the responses to those comments.

**RI** Remedial Investigation. An investigation conducted to determine the nature and extent of contamination at a site and identify preliminary cleanup alternatives.

**ROD** Record of Decision. Documentation of the selected remedy for a site and the rationale for its selection.

The Administrative Record is located at:

**Directorate of Public Works**
**Building 3023**
**Fort Wainwright, Alaska**
**(907) 353-9686**

The Information Repositories are located at:

**Noel Wien Library**
**1215 Cowles Street**
**Fairbanks, Alaska 99701**
**(907) 459-1020**

**Fort Wainwright**
**Post Library**
**Building 3700**
**Fort Wainwright, Alaska 99503**
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*Environmental Restoration News* is an authorized publication detailing information about environmental restoration programs at Fort Wainwright. Contents of this newsletter are not necessarily the official view of, or endorsed by, the United States Government, Department of Defense, or Department of the Army. This newsletter was prepared by Ecology and Environment, Inc., in Anchorage, Alaska, and reviewed by the Fort Wainwright Remedial Project Managers from the Army, ***EPA***, and ***ADEC*** and engineering managers from the United States Army Corps of Engineers, Alaska District. Questions and comments regarding the content or format of this newsletter may be directed to Ms. Linda Douglass of the Fort Wainwright Public Affairs Office by calling (907) 353-6706.

## Mailing List Coupon

If you received this newsletter by mail, you are already on the mailing list and may use this coupon to remove your name from the mailing list or change your address if the mailing label is incorrect. If you do not receive this newsletter by mail, you may use this coupon to add your name to the mailing list. If you would like to receive future issues of Fort Wainwright's *Environmental Restoration News*, mail a complete coupon to:

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**U.S. Army Alaska**
**Attn: APVR-RPW-ENV**
**600 Richardson Drive #6500**
**Fort Richardson, Alaska 99505-6500**

Name: _____

Organization: _____

Address: _____

City: _____ State: _____ Zip: _____

Telephone Number: ( ) _____

Please Check One: ☐ *Please correct my address,* ☐ *add my name to the mailing list,* ☐ *or remove my name from the mailing list*

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# TECHNICAL REVIEW COMMITTEE

# ATTACHMENT E

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# ATTACHMENT F
# TECHNICAL ASSISTANCE GRANT PROGRAM INFORMATION

# ATTACHMENT F

# TECHNICAL ASSISTANCE GRANT PROGRAM INFORMATION

**Basic Provisions and Uses**

The following is a list of the basic provisions of the Technical Assistance Grant (TAG) program:

- Grants up to $50,000 are available to community groups for hiring technical advisors to make site-related technical information understandable.
- The community group applying for a grant must cover 20 percent of the total costs of the project to be supported by TAG funds.
- The community group must budget the expenditure of grant funds to cover the entire cleanup period (which averages 6 years).
- The group must become incorporated once it is awarded a TAG.
- Only one TAG may be awarded per National Priorities List (NPL) site, but, under certain conditions, it may be renewed.

Some examples of acceptable uses of TAG funds are listed below:

- Technical advisor to review site-related documents;
- Meetings between the technical advisor and the community group to explain technical information;
- Professional assistance by the technical advisor to communicate site-related concerns to the community;
- Dissemination of interpretations of technical information by the technical advisor to the community;
- The technical advisor's participation in site visits, when possible, to gain a better understanding of cleanup activities.

**Application Eligibility and Requirements**

Groups eligible to receive grants under the TAG program are those whose members may be affected by a release or threatened release of hazardous wastes at any facility listed on the NPL. In general, eligible groups are those who live near the site and whose health, economic well being, or enjoyment of the environment are directly threatened. Any group applying for a TAG must be nonprofit and incorporated or working towards incorporation under applicable state laws. Applications are encouraged from:

- Groups who have a genuine interest in learning more about the technical aspects of a nearby hazardous waste site;
- Groups who have, or intend to establish, an organization to manage a grant efficiently and effectively.

Groups who fall into this category include existing citizens' associates, environmental or health advocacy groups, or coalitions of such groups formed to deal with community concerns about a hazardous waste site and its impact on the surrounding area.

Groups who are not eligible for grant funds are:

- Potentially responsible parties including individuals or companies (e.g., facility owners/operators or hazardous waste generators/transporters) potentially

responsible for, or contributing to, the contamination problems at a Superfund site;

- Academic institutions;
- Political subdivisions;
- Groups established and/or sustained by government entities (including emergency planning committees and some citizen advisory groups).

When applying for a TAG, a group must provide information to the U.S. Environmental Protection Agency (EPA) to determine whether the group meets specific administrative and managerial requirements. The application also must include a description of the group's history, goals, and plans for using the technical assistance funds. Factors that are particularly important in the evaluation process include:

- The group's ability to manage the grant in compliance with EPA grant and procurement regulations;
- The degree to which the group members' health, economic well-being, and enjoyment of the environment are adversely affected by a hazardous waste site;
- The group's commitment and ability to share the information provided by the technical advisor with others in the community;
- Broad representation of affected groups and individuals in the community;
- Whether the applicant group is incorporated. (Only incorporated groups may receive grants. Groups must either be incorporated specifically for the purpose of addressing site-related problems or incorporated for broader purposes if the group has a substantial history of involvement at the site.)

**Notification Procedures and Evaluation Criteria**

To ensure that all eligible groups have equal access to technical assistance and an equal opportunity to compete for a single available grant (if a coalition of groups proves to be impossible), the EPA has established a formal notification process, which includes the following steps:

- Groups wishing to apply for a TAG must first submit to the EPA a short letter stating the group's desire to apply and naming the site(s) involved.
- Other potential applicants then would have 30 days to contact the original applicant to form a coalition.
- If potential applicants are unable to form a coalition, they will notify the EPA within this time period and the EPA will accept separate applications from all interested groups for an additional 30-day period.
- The EPA will award a grant to the application that best meets the requirements described above.

The maximum grant that can be awarded to any group is generally limited to $50,000. The actual amount depends on what the group intends to accomplish. A group's minimum contribution of 20 percent of the total costs of the technical assistance project can be made in cash and/or "in-kind" contributions, such as office supplies or services by the group. These services might include, for example, the publication of a newsletter or the time an accountant donates to managing the group's finances. The value of donated professional services is based on rates charged for similar work in the area.

In special cases where an applicant group intends to apply for a single grant covering multiple sites near each other, the EPA can allow a deviation from the $50,000 grant limit.

In such cases, however, the recipient cannot receive more than $50,000 for each site to which it intends to apply funds.

**Additional Information**

For further information on the application process or any other aspect of the TAG program, please contact the EPA Region 10 Officer or call the national information number, both of which are listed below. A copy of the Superfund TAG Handbook, which contains the necessary application and forms, is available free by calling the EPA Regional 10 Superfund office:

EPA Region 10 TAG Coordinator
Superfund Branch
1200 Sixth Avenue, HW-117 (CR)
Seattle, Washington 98101
(206) 553-0603 or Superfund toll-free
hot line (800) 424-4372

## GLOSSARY OF TERMS

Words outlined in bold type within definitions are defined elsewhere in this glossary.

Administrative Record - A file that is maintained and contains all information used by the lead agency to make its decision on selecting a response action. Its purpose is to provide the public access to site-related information so they can make informed comments on selecting a remedy. The record must be located at or near the site.

Aquifer - An underground geologic formation composed of materials, such as sand, soil, or gravel, that can supply **groundwater** to wells and springs.

Cleanup - Actions taken to deal with a release or threatened release of **hazardous substances** that could affect public health or the environment. The term is often used broadly to describe various response actions or phases of remedial responses, such as the **Remedial Investigation/Feasibility Study (RI/FS).**

Comment Period - A time period for the public to review and comment on various documents and EPA actions. For example, a minimum 30-day comment period is held to allow community members to review and comment on a draft **RI/FS** and **Proposed Plan**; it must be extended an additional 30 days upon timely request. A comment period is required to amend the **Record of Decision (ROD).**

Community Relations (CR) - EPA's program to inform and involve the public in the cleanup process and respond to community concerns.

Community Relations Plan (CRP) - Formal plan for EPA-mandated community relations activities. The CRP is designed to assure citizens of opportunities for public involvement at the site, evaluate activities that will provide for involvement, and allow citizens the opportunity to learn about the site.

Comprehensive Environmental Response, Compensation, and Liability Act - A Federal law passed in 1980 and modified in 1986 by Superfund Amendments and Reauthorization Act. The acts created a special tax that goes into a **Trust Fund**, commonly known as **Superfund**, to investigate and clean up abandoned or uncontrolled (CERCLA) hazardous waste sites. Under the program, EPA can either:

- Pay for site **cleanup** when parties responsible for the contamination cannot be located or unable to perform the work;
- Take legal action to force responsible parties to clean up the site or repay the federal government for the cost of the cleanup.

Groundwater - Water found beneath the earth's surface that fills pores within materials such as sand, soil, or gravel. In **aquifers**, groundwater occurs in sufficient quantities that it can be used for drinking water, irrigation, and other purposes.

Hazardous Ranking System (HRS) - A scoring system used to evaluate potential risks to public health and the environment from releases or threatened releases of **hazardous substances.** EPA and state agencies use the HRS to calculate a site score (0 to 100) based on the actual or potential release of hazardous substances from a site through air, **surface water**, or **groundwater.** This score is the primary factor used to decide if a hazardous waste site should be placed on the **National Priorities List (NPL).**

Hazardous Substance - Any material that poses a threat to public health and/or the environment. Typical hazardous substances are materials that are toxic, corrosive, ignitable, explosive, or chemically reactive.

Hydrology - The science dealing with the properties, movement, and effects of water found on the earth's surface, in the soil and rocks below, and in the atmosphere.

Incineration - Burning of certain types of solid, liquid, or gaseous materials under controlled conditions to destroy hazardous wastes.

Information Repository - A file containing current information, technical reports, reference, and **Technical Assistance Grant (TAG)** application information on a **Superfund** site. The public information repository is usually located in a public building that is convenient for local residents, such as a public school, city hall, or library.

Monitoring Wells - Special wells drilled at specific locations on or off a hazardous waste site where **groundwater** can be sampled at selected depths and studied to assess the direction of **groundwater** flow and the presence of contaminants.

National Oil and Hazardous Sub-stances Pollution Contingency Plan (NCP) - A Federal regulation that guides the **Superfund** program. The NCP was revised in February 1990.

National Priorities List (NPL) - EPA's list of the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial response using money from the **Trust Fund.** The list is based primarily on the score a site receives on the **HRS.** The EPA is required to update the NPL at least once a year.

Operable Unit (OU) - The cleanup of a site can be divided into a number of OUs, depending on the complexity of the problems associated with the site. OUs may address geographical portions of the site, specific site problems, or an initial phase of an action, or may consist of any set of actions performed over time or any actions that are concurrent but located in different parts of a site.

Parts per billion (ppb) - Units commonly used to express low concentrations of contaminants. For example, one ounce of trichloroethylene (TCE) in one million (ppm) ounces of water is 1 ppm; one ounce of TCE in one billion ounces of water is 1 ppb.

Potentially Responsible Party - An individual or company (such as owners, operators, transporters, or generators of hazardous waste) potentially responsible for, or contributing to, the contamination problems at a Superfund site. Whenever possible, the EPA requires the potentially responsible party, through administrative and legal actions, to clean up hazardous waste sites they have contaminated.

Proposed Plan - A public participation requirement of **CERCLA** in which the EPA summarizes for the public the preferred cleanup strategy, the rationale for that preference, alternatives presented in the detailed analysis of the **RI/FS**, and waivers to cleanup standards that may be proposed. This may be prepared either as a fact sheet or a separate document. It must actively solicit public review and comment on all alternatives under consideration.

Preliminary Source Evaluation (PSE) - A process of and resulting documentation for evaluating releases or threatened releases of contaminants from source areas with the potential to constitute a threat to public health, welfare, or the environment. A PSE may consist of two phases: an existing data evaluation (PSE 1) and/or a limited field investigation (PSE 2).

Record of Decision (ROD) - A public document that explains which cleanup alternative will be used at **NPL** sites. The ROD is based on information and technical analysis generated during the **RI/FS** and considers public comments and community concerns.

Remedial Action (RA) - The actual construction and implementation phase that follows the **remedial design (RD)** of the selected cleanup alternative at a site on the **NPL.**

Remedial Design (RD) - An engineering phase that follows the **ROD** when technical drawings and specifications are developed for the subsequent **RA** at a site on the **NPL.**

Remedial Investigative/Feasibility Study (RI/FS) - Investigative and analytical studies usually performed at the same time in an interactive, iterative process, and together referred to as the "RI/FS." An RI/FS is intended to:

- Gather the data necessary to assess the type and extent of contamination at a **Superfund** site
- Establish criteria for cleaning up the site
- Identify and screen **cleanup** alternatives for **RA**
- Analyze in detail the technology and costs of the alternatives

Remedial Project - The EPA or state official responsible for overseeing Manager (RPM) remedial response activities.

Superfund - The common name used for **CERCLA**; also referred to as the **Trust Fund.**

Superfund Amendments - Modifications to **CERCLA** enacted on October 17, 1986 and Reauthorization Act (SARA).

Surface Water - Bodies of water that are aboveground, such as rivers, lakes, and streams.

Technical Assistance Grant (TAG) Program - A grant program that provides funds for qualified citizens' groups to hire independent technical advisors to help them understand and comment on technical decisions relating to **Superfund cleanup** actions.

Trust Fund - A fund set up under **CERCLA** to help pay for **cleanup** of hazardous waste sites and to take legal action to force those responsible for the sites to clean them up.

# Appendix F
# HRA & ERA

# Operable Unit 5
# Human Health Risk Assessment Approach
# Fort Wainwright, Alaska

Prepared for

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## FIGURE


F-1 Site Map

# 1.0 INTRODUCTION

A baseline human health risk assessment (HRA) will be developed as part of the remedial investigation (RI) activities for Fort Wainwright's Operable Unit 5 (OU 5). The purpose of the HRA is to evaluate potential threats to human health, and to identify sites and media that may require remediation. This report describes the general approaches that will be used in the baseline HRA planned for OU 5.

Fort Wainwright is located within the Fairbanks North Star Borough (FNSB) in central Alaska and covers approximately 918,000 acres on the eastern side of the City of Fairbanks. The OU 5 portion of Fort Wainwright contains three general source areas: the West Section, Former Quartermaster's Fueling System (West QFS) area; the East Section, Former Quartermaster's Fueling System (East QFS) area; and the Open Burning/Open Detonation (OB/OD) area (Figure F-1).

Fort Wainwright was placed on the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) National Priorities List (NPL) in August 1990. A Federal Facility Agreement (FFA) was effected in March of 1992 between the U.S. Environmental Protection Agency (EPA), the Department of Defense (DOD), and the Alaska Department of Environmental Conservation (ADEC). The FFA identifies the authorities and responsibilities of these parties, and integrates CERCLA requirements with pertinent aspects of other federal and state remedial programs such as the Resource Conservation and Recovery Act (RCRA) and Alaska's underground storage tank program.

The RI for OU 5 is being conducted to evaluate the distribution and potential migration pathways for chemicals present at the OU 5 source areas. The HRA will identify different populations of humans who may come into contact with the chemicals and possible pathways of exposure, and will provide quantitative estimates of carcinogenic and noncarcinogenic risks. The results of the HRA will be used to direct risk management activities including the evaluation of whether remedial action is necessary.

Before proceeding with developing the risk assessment for OU 5, the EPA and the ADEC request an approach document be provided to describe how the HRA will be conducted. This document describes the approaches and assumptions that will be followed in the HRA for OU 5. Specific considerations are provided for data review and use, selection of chemicals of potential concern (COPCs), and use of toxicity information. Preliminary receptor populations and exposure pathways are also discussed.

A complete assessment of all available data, including RI data, will be performed as part of the HRA. However, some historical data may not be used to quantify risk, because the data may be outdated, may be of insufficient quality, or may be otherwise inappropriate for risk assessment needs.

# 2.0 SITE DESCRIPTION

OU 5 includes three general areas where various chemicals were used, disposed of, or otherwise released to the environment: the West QFS, the East QFS, and the OB/OD areas. Figure F-1 shows the location of each area. Chemicals detected in soil, groundwater, surface water, and sediment at the areas are listed in Tables F-1 through F-4.

## 2.1 West Section, Former Quartermaster's Fueling System Source Area

The West QFS area is located between the north runway and the Chena River, and between the railcar off-loading facility (ROLF) and Building 1595. The source area includes Building 1599 and components of the former QFS including approximately eight gasoline and diesel storage tanks, fill stands and dispenser islands, and associated piping.

A detailed description of past practices and the findings of previous investigations performed at the West QFS area are included in the OU 5 RI/FS Management Plan (MP), Section 2.0. A preliminary conceptual site model (CSM) for the West QFS area is presented in Section 3.0 of the OU 5 RI/FS MP.

## 2.2 East Section, Former Quartermaster's Fueling System Source Area

The East QFS area is located between the north runway and the Chena River, and between Building 1579 on the southwest and Building 1054 on the northeast. The source area includes Buildings 1060, 1053, and 1054, between Gaffney Road and Apple Street; Building 1565 and former Building 1567, between the flight line and Gaffney Road; approximately 16 former gasoline and diesel storage tanks on both sides of Gaffney Road; and a former fueling station along the north side of Gaffney Road.

A detailed description of past practices and the findings of previous investigations at the East QFS area are included in the OU 5 RI/FS MP, Section 2.0; the preliminary CSM is presented in Section 3.0.

## 2.3 Open Burning/Open Detonation Source Area

The OB/OD area, located adjacent to a gravel borrow pit filled with water, was reportedly used to dispose of unexploded and dud ordnance, unused propellants, rocket motors, small arms ammunition, and other possible hazardous materials. Disposal practices included burning and ordnance detonation.

The U.S. Army Corps of Engineers (USACE) performed a limited field investigation at the OB/OD area in the summer of 1994. A description of the investigation and a summary of the chemicals detected are included in Section 2.0 of the OU 5 RI/FS MP; a preliminary CSM is presented in Section 3.0.

## 2.4 OU 5 Remedial Investigation

The OU 5 RI, currently planned for 1995, should collect sufficient data to fill existing data gaps regarding the nature and extent of site contamination. The sampling approach for each of the source areas is described in the Field Sampling Plan, Appendix A of the OU 5 RI/FS MP.

## Table F-1. Chemicals Detected in Groundwater at Operable Unit 5, Fort Wainwright, Alaska

**West Section, Former Quartermaster's Fueling System Source Area**

1,3-Dichlorobenzene
1,1,1-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2,4-Trichlorobenzene
1,2,4-Trimethylbenzene
1,2-Dichloroethane
1,2-Dichloropropane
1,3,5-Trimethylbenzene
Benzene
cis-1,2-Dichloroethene
Dichlorodifluoromethane
Diesel-range organics (DRO)
Ethylbenzene
Gasoline-range organics (GRO)
Isopropylbenzene
n-Butylbenzene
n-Propylbenzene
Naphthalene
p-Isopropyltoluene
sec-Butylbenzene
Styrene
Toluene
trans-1,2-Dichloroethene
Trichloroethene (TCE)
Trichlorofluoromethane
Xylenes

Building 1599

1,2,4-Trimethylbenzene
1,2-Dichloroethane
1,3,5-Trimethylbenzene
2-Methylnaphthalene
4-Isopropyltoluene
4,4'-dichlorodiphenyldichlorethane
4,4'-dichlorodiphenyldichlorothene
4,4'-dichlorodiphenyltrichloroethane
Acenaphthene
Acenaphthylene
Acetone
Aldrin
Alpha-benzene hexachloride (BHC)
Benzene
Beta-BHC
cis-1,2-Dichloroethene
Delta-BHC
Dieldrin
DRO
Endosulfan I
Endosulfan II
Endosulfan sulfate
Endrin
Endrin aldehyde
Ethylbenzene
Fluorene
Gamma-BHC (lindane)
GRO
Heptachlor
Heptachlor epoxide
Isopropylbenzene
Methoxychlor
n-Propylbenzene
Naphthalene
Phenanthrene
Toluene
Xylenes

**East Section, Former Quartermaster Fueling System Source Area**

Building 1060

2-Methylnaphthalene
Benzene
Chloroethane
cis-1,2-Dichloroethene
DRO
Ethylbenzene
GRO
Naphthalene
TCE
Toluene
Total petroleum hydrocarbons (TPH)
trans-1,2-Dichloroethene
Trichlorofluoromethane
Xylenes

Building 1565

1,1-Dichloroethane
1,1-Dichloroethene
1,1,1-Trichloroethane
1,2,4-Trimethylbenzene
1,3,5-Trimethylbenzene

## Table F-1. Chemicals Detected in Groundwater at Operable Unit 5, Fort Wainwright, Alaska (continued)

**East Section, Former Quartermaster's Fueling System Source Area(continued)**

Building 1565 (continued)

Acetone
Benzene
Carbon disulfide
Chloroform
cis-1,2-Dichloroethene
Ethylbenzene
Isopropylbenzene
n-Propylbenzene
Naphthalene
p-Isopropyltoluene
sec-Butylbenzene
TCE
Toluene
trans-1,2-Dichloroethene
Xylenes

Building 1053

1,2-Dichloropropane
Acetone
Arsenic
Barium
DRO
Lead
TCE
Xylenes

Building 1054

1,2-Dichloropropane
Acetone
Barium
DRO
Xylenes

Building 1567

1,2-Dichloropropane
Acetone
Chloroform
DRO
Methylene chloride (dichloromethane)
Xylenes (total)

**Open Burning/Open Detonation Source Area**

No groundwater samples were collected from this area.

## Table F-2. Chemicals Detected in Soil at Operable Unit 5, Fort Wainwright, Alaska

**West Section, Former Quartermaster's Fueling System Source Area**

1,2,4-Trimethylbenzene
1,3,5-Trimethylbenzene
Benzene
Diesel-range organics (DRO)
Ethylbenzene
Gasoline-range organics (GRO)
Isopropylbenzene
Lead
n-Butylbenzene
n-Propylbenzene
Naphthalene
p-Isopropyltoluene
sec-Butylbenzene
tert-Butylbenzene
Toluene
Xylenes

Building 1599*

1,2,4-Trimethylbenzene
1,3,5-Trimethylbenzene
2-Methylnaphthalene
4-Isopropyltoluene
Benzene
Bis(2-ethylhexyl)phthalate
DRO
Ethylbenzene
GRO
Naphthalene
sec-Butylbenzene
Tetrachloroethene (PCE)
Toluene
Xylenes

4,4'-dichlorodiphenyldichloroethane
4,4'-dichlorodiphenyldichloroethene
4,4'-dichlorodiphenyltrichloroethane
Aldrin
Alpha-benzene hexachloride (BHC)

Polychlorinated biphenyls

Beta-BHC
Chlordane
Delta-BHC
Dieldrin
Endosulfan I
Endosulfan II
Endosulfan sulfate
Endrin
Endrin aldehyde
Gamma-BHC (lindane)
Heptachlor
Heptachlor epoxide
Methoxychlor
Toxaphene

Dioxins and furans

**East Section, Former Quartermaster's Fueling System Source Area**

Building 1060

1,1,2-Trichloroethane
2-Hexanone
Bis(2-ethylhexyl)phthalate
cis-1,2-Dichloroethene
DRO
Ethylbenzene
GRO
Naphthalene
Total petroleum hydrocarbons (TPH)
Trichloroethene (TCE)
Vinyl acetate
Xylenes

Building 1565

1,2,4-Trimethylbenzene
1,3,5-Trimethylbenzene
1,1,1-Trichloroethane
2-Butanone
Acetone
Benzene
DRO

**Table F-2. Chemicals Detected in Soil at Operable Unit 5, Fort Wainwright, Alaska (continued)**

**East Section, Former Quartermaster's Fueling System Source Area (continued)**

Building 1565 (continued)

Ethylbenzene
GRO
Isopropylbenzene
Lead
Methylene chloride
n-Propylbenzene
Naphthalene
p-Isopropyltoluene
sec-Butylbenzene
Toluene
TPH
Xylenes

Building 1053

1,2-Dichlorobenzene
Acetone
Arsenic
Barium
Chromium
DRO
Lead
Naphthalene
Xylenes

Building 1054

Arsenic
Barium
Chromium
cis-1,2-Dichloroethene
DRO
Lead
TCE

Building 1567

2-Butanone
2-Hexanone
4,4'-DDD
4,4'-DDE
4,4'-DDT
4-Methyl-2-pentanone
Acetone
Aldrin
Alpha-BHC
Chlordane
Dieldrin
Endosulfan II
Endrin
Endrin aldehyde
Gamma-BHC (lindane)
Heptachlor
Toxaphene

**Open Burning/Open Detonation Source Area**

DRO
p-Chlorophenyl methyl sulfoxide

* Although pesticides and dioxins have been detected in soil in the vicinity of former Building 1599, investigation of these chemicals is not included in the scope of work for Operable Unit (OU) 5. Investigation of pesticides and dioxins for Building 1599 is addressed in the OU 1 Remedial Investigation/Feasibility Study Management Plan.

**Table F-3. Chemicals Detected in Surface Water* at Operable Unit 5, Fort Wainwright, Alaska**

| | |
|---|---|
| 1,3-Dichlorobenzene | Toluene |
| Benzene | Xylenes |

* Surface water samples are from the Chena River.

**Table F-4. Chemicals Detected in Sediment* at Operable Unit 5, Fort Wainwright, Alaska**

| | |
|---|---|
| 1,2,4-Trimethylbenzene | m&p-Xylene |
| 1,3,5-Trimethylbenzene | Methylene chloride |
| 2-Butanone | n-Propylbenzene |
| 2-Hexanone | Naphthalene |
| 4-Methyl-2-pentanone (MIBK) | o-Xylene |
| Acetone | p-Isopropyltoluene |
| Dichlorodifluoromethane | sec-Butylbenzene |
| Diesel-range organics | Toluene |
| Ethylbenzene | Total lead |
| Gasoline-range organics | Xylenes |
| Isopropylbenzene | |

* Sediment samples are from the Chena River.

## 3.0 DATA ASSESSMENT

This section discusses the process that will be used to review and select analytical data for the HRA. Sampling data will undergo quality review and validation so that only appropriate data will be selected for risk assessment purposes. The EPA's Risk Assessment Guidance for Superfund (RAGS) Part A (EPA, 1989) outlines a series of steps that will be used to aid in organizing and evaluating analytical data. The outcome will be a data set consisting of chemicals likely to be site-related, and reported concentrations that are of acceptable quality and sufficient accuracy for use in a quantitative risk assessment.

After collecting and reviewing available site-related data, older sampling data may be evaluated as inappropriate for the HRA due to changed site conditions or data that may not have been validated. Although inappropriate for a quantitative HRA, these data may be useful for a qualitative evaluation of site-related chemicals. For example, the 1993 groundwater summary report for Fort Wainwright (EMCON, 1994) might be useful for distinguishing flow patterns at the site, but may be too general to apply to a risk assessment.

Data will be evaluated according to the type of analysis conducted to identify results appropriate for use in the HRA. For example, data obtained by field-screening analyses are not appropriate for use in an HRA, but may be useful in defining the boundary of a suspected source area. Data will also be reviewed to identify areas of high concentrations of chemicals.

Sampling data used for the HRA will have been analyzed in a laboratory approved by the EPA's Contract Laboratory Program (CLP). Each CLP laboratory is required to follow quality assurance and quality control (QA/QC) procedures for data validation. Validation of the analytical results received from the CLP laboratory will include (EPA, 1989)

- Verifying that correct samples were analyzed and reported in appropriate units;
- Verifying preservation and holding times;
- Verifying that initial and continuing calibrations were performed and met QC criteria;
- Verifying that no analytes were present in the blanks and that a minimum of one blank was analyzed for every 20 investigative samples (5 percent);
- Verifying that surrogate recoveries were sufficient for all organic analyses, where applicable;
- Verifying that a duplicate and matrix spike or matrix spike/matrix spike duplicate were analyzed for every 20 investigative samples, and that QC criteria were acceptable;
- Evaluating sample detection limits and comparing them to risk-based concentrations (if available).

# 4.0 SELECTION OF CONTAMINANTS OF POTENTIAL CONCERN

After data collected during the RI are validated, the OU 5 database will be evaluated to select COPCs for the site. Laboratory contaminants, natural background elements, or chemicals that pose insignificant risks will be eliminated before the quantitative risk assessment.

## 4.1 Laboratory Contaminants, Nonoriginal Data

Sample blanks can become contaminated in the field during collection or transportation, or in the laboratory during sample preparation or analysis. Chemicals considered by the EPA to be common laboratory contaminants include acetone, methylene chloride, methyl ethyl ketone (2-butanone), toluene, and phthalate esters. If a field sample contains detectable levels of common laboratory contaminants, the sample results should be considered positive only if the concentrations in a sample exceed 10 times the maximum amount detected in any blank. If a chemical that is not considered a common laboratory contaminant is detected in a field sample, the result will be considered positive only if it exceeds five times the maximum amount detected in any blank (EPA, 1989). Chemical results attributed to laboratory contamination will be qualified with a "B" and will be excluded from the database. Additionally, sample results for matrix spike and matrix spike duplicates will be excluded from the database.

## 4.2 Background Evaluation

An evaluation of naturally occurring ("background") levels of inorganic chemicals is an essential step of the risk assessment process, and is necessary to eliminate from the risk assessment those chemicals detected at naturally occurring background levels and to assess whether elevated levels of any inorganic chemicals are present at the site. Site-specific background concentrations for arsenic, barium, cadmium, chromium, and lead in groundwater and soil at Fort Wainwright have been assessed and are available in a report prepared by the USACE (1994b). Data from other sources, including the U.S. Geological Survey, will be used in evaluating local and regional levels of inorganic chemicals.

Background samples collected from potentially uncontaminated areas near each of the sites will be used for comparison to the levels of inorganic chemicals found at each site. If risks from background levels of inorganics are found to be significant, their contribution to the overall risk will be distinguished from site-related risks, as recommended in RAGS Part A (EPA, 1989).

## 4.3 Risk-Based Screening

The list of chemicals considered for the baseline risk assessment will be further reduced by comparing the maximum concentrations found in the various media to a conservative risk-based screening level developed by EPA Region 3. Chemicals that do not exceed risk-based screening concentrations (RBSCs) will be excluded from the HRA.

EPA Region 3 has developed RBSCs for both soil and groundwater based primarily on the ingestion pathway. For groundwater samples, concentrations will be compared to a $1 \times 10^{-6}$ carcinogenic risk level. For soil, concentrations of chemicals will be compared to a $1 \times 10^{-7}$ carcinogenic risk level. This lower target risk number is used for soil to allow for additional pathways that are not accounted for, such as dermal exposure or inhalation of volatile organic compounds (VOCs). For noncarcinogens, chemicals will be screened against a hazard quotient of 0.1, which is also a conservative (or protective) screening number, because multiple exposure pathways and multiple chemicals could result in cumulative effects. These target risk levels are recommended by EPA Region 10 (EPA, 1991a) for screening purposes.

If chemicals not included in the Region 3 RBSC list are detected during sampling, the most recent toxicity factors from the EPA's Integrated Risk Information System (IRIS) (1994a) or Health

Effects Assessment Summary Tables (HEAST) (1994b) will be used (if available) to calculate RBSCs using risk criteria and exposure assumptions recommended by EPA Region 3. Inhalation-based soil screening criteria will be developed for chromium, cadmium, elemental mercury, and carcinogenic forms of nickel, because inhalation of these inorganics poses greater risk than ingestion (EPA, 1991a).

Consistent with the OU 4 risk assessment approach document (E&E, 1994), the baseline HRA for OU 5 will focus on the risks associated with the most toxic individual components of petroleum hydrocarbons. Potential risks from petroleum hydrocarbon fuels (i.e., gasoline or diesel fuel) will be evaluated qualitatively. Chemicals that remain following the blank contamination assessment, the background comparison, and the Region 3 RBSC screening will be considered COPCs, and will be retained in the risk assessment database for quantitative risk assessment.

## 5.0 TOXICITY ASSESSMENT

The toxicity assessment portion of the risk assessment will present basic toxicological information for the COPCs and toxicity reference values to be used in the risk characterization. Toxicity reference values (essentially "acceptable exposure levels") have been established by the EPA for numerous chemicals. These values include cancer slope factors (SFs) and reference doses (RfDs) for oral and inhalation exposure routes that will be used in the risk characterization. The toxicity information will be combined with appropriate exposure assumptions to characterize potential risks for the site. Toxicity reference values will be obtained according to the hierarchy of sources established by the EPA (1989, 1991a) as follows:

- The EPA's IRIS database (EPA, 1994a) represents a consensus judgment of scientists from EPA program offices and the Office of Research and Development, who comprise the Reference Dose work group or the Carcinogen Risk Assessment Verification Endeavor (CRAVE) work group. Toxicity factors will be verified so that the most current IRIS information will be used.
- If toxicity information is not available in IRIS, the most current HEAST (EPA, 1994b) will be used. HEAST contains toxicity information and toxicity reference values developed by the EPA for various chemicals and that are presented in different criteria documents including Health Effects Assessments (HEAs), Health and Environmental Effects Profiles (HEEPs), and Ambient Air Quality Criteria Documents (AAQCDs). HEAST contains interim verified and unverified information, and is published annually and updated periodically throughout the year. If an updated version is released that contains new information, that information will be incorporated into the risk assessment to the extent possible.
- For chemicals without toxicity information available from either IRIS or HEAST, EPA Region 10 risk assessment staff and the Environmental Criteria and Assessment Office (ECAO) in Cincinnati, Ohio, will be contacted for recommendations.

Inhalation toxicity values were recently changed to reference concentrations (RfCs) in air (in units of milligrams per cubic meter [$mg/m^3$] for noncarcinogens) and to unit risks (presented as inverse units of micrograms per cubic meter [$\mu g/m^3]^{-1}$ for carcinogens). Because the risk characterization equations utilize toxicity values in terms of dose (e.g., milligrams per kilogram per day [mg/kg/day]), air concentrations will be converted to inhalation RfDs and inhalation SFs using standard conversion factors (EPA, 1994b).

As recommended in RAGS Part A (EPA, 1989), oral toxicity values will be used to evaluate potential health effects and carcinogenic risks from dermal exposure if the dermal pathway is a potential exposure route. Dermal absorption coefficients will be derived according to EPA guidance (1992a). Specific chemicals or families of chemicals without dermal absorption coefficients will be evaluated qualitatively, or by using surrogate or estimated absorption coefficients.

A short toxicity profile will be provided for each of the COPCs that will include general toxicity information, the critical effect, the target organ, uncertainty factors, and the carcinogenic weight of evidence.

# 6.0 EXPOSURE ASSESSMENT

The exposure assessment will evaluate possible exposures to current and potential future populations (e.g., site workers, site visitors, recreational visitors, hypothetical future residents) based on current and possible future land uses. The exposure pathways for each population will be defined, as well as the exposure and intake assumptions for each population. Exposure pathways (and in some cases, receptor populations) will be defined following an evaluation of analytical data (both historical and current RI data). Information from discussions with Fort Wainwright, city, and borough personnel will be used to identify potential future land use plans and projections.

Certain potential receptor populations (e.g., people fishing or participating in other recreational activities) will not be evaluated for OU 5 specifically, but will be considered as part of the postwide risk assessment. Additionally, potential surface-water exposure pathways associated with the Chena River (i.e., fishing, swimming, wading, and boating) will be addressed in the postwide risk assessment. The Chena River may be impacted by several different OUs. The basewide HRA will evaluate potential exposures from chemicals in surface water and sediment, and a basewide ecological risk assessment will attempt to characterize potential ecological impacts across the different OUs.

Preliminary CSMs and anticipated exposure pathways and receptor populations are in Section 2.0 of the OU 5 RI/FS MP. Table F-5 presents a summary of the preliminary populations and exposure pathways that will be considered in the exposure assessment.

The exposure assessment will contain the rationale for the inclusion or exclusion of all potential exposure pathways and populations. Based on the evaluation conducted in the risk assessment, some pathways listed in Table F-5 may be excluded (e.g., if they are evaluated to be incomplete or would result in insignificant exposure), and other pathways and populations not currently identified may be included in the risk assessment.

## 6.1 Populations and Exposure Pathways

The following Sections summarize the preliminary exposure evaluation identified in the CSMs presented in Section 2.0 of the OU 5 RI/FS MP, and define the populations of interest for each site, and primary and secondary exposure pathways. Populations of concern generally include onsite or nearby offsite residents, site visitors, site workers, and construction workers. Populations that are currently present or that could potentially be present will be evaluated.

A primary exposure pathway is one in which exposure is expected to occur and to be a significant contributor to the overall site risk. A secondary exposure pathway is one in which exposure may occur, and the resultant contribution to the overall risk may or may not be significant. Primary and secondary pathway designations are presented in Table F-5. Some of the exposure pathway/receptor combinations have been identified as incomplete or as highly unlikely to occur. A more detailed evaluation of populations and exposure pathways will be provided in the HRA.

### 6.1.1 West Section, Former Quartermaster's Fueling System Source Area

Petroleum products and chlorinated solvents have been detected in soil and groundwater at the West QFS area. Current populations that could be exposed to site chemicals include site workers, site visitors, and recreational users. Exposures to chemicals in soil could occur via multiple routes, including inhalation of VOCs, inhalation of windblown dust, dermal contact, and incidental ingestion (see Table F-5). However, site visitors are not expected to be exposed through soil ingestion. A current residential scenario is not appropriate for this area, because no individuals reside onsite. However, a hypothetical future

**Table F-5. Potential Human Exposure Pathways Associated with Operable Unit 5, Fort Wainwright, Alaska**

| Exposure Pathway/Receptor | West QFS Area | East QFS Area[a] | OB/OD Area |
|---|---|---|---|
| **Inhalation of VOCs from Soil** | | | |
| Site Workers[C,F] | 1 | 1 | 1 |
| Site Visitors[C,F] | 2 | 2 | 2 |
| Site Residents[F] | 2 | 2 | 2 |
| Construction Workers[F] | 1 | 1 | 1 |
| **Inhalation of Dust** | | | |
| Site Workers[C,F] | 1 | 1 | 1 |
| Site Visitors[C,F] | 2 | 2 | 2 |
| Site Residents[F] | 2 | 2 | 2 |
| Construction Workers[F] | 1 | 1 | 1 |
| **Dermal Contact with Soil** | | | |
| Site Workers[C,F] | 1 | 1 | 1 |
| Site Visitors[C,F] | 2 | 2 | 2 |
| Site Residents[F] | 2 | 2 | 2 |
| Construction Workers[F] | 1 | 1 | 1 |
| **Ingestion of Soil** | | | |
| Site Workers[C,F] | 1 | 1 | 1 |
| Site Visitors[C,F] | 2 | 2 | 2 |
| Site Residents[F] | 2 | 2 | 2 |
| Construction Workers[F] | 1 | 1 | 1 |
| **Ingestion of Groundwater** | | | |
| Site Workers[C,F] | 1 | 1 | 1 |
| Site Visitors[C,F] | N | N | N |
| Site Residents[F] | 1 | 1 | 1 |
| Construction Workers[F] | 2 | 2 | 2 |
| **Dermal Contact with Groundwater** | | | |
| Site Workers[C,F] | 1 | 1 | 1 |
| Site Visitors[C,F] | N | N | N |
| Site Residents[F] | 1 | 1 | 1 |
| Construction Workers[F] | 2 | 2 | 2 |
| **Inhalation of VOCs from Groundwater** | | | |
| Site Workers[C,F] | 1 | 1 | 1 |
| Site Visitors[C,F] | N | N | N |
| Site Residents[F] | 1 | 1 | 1 |
| Construction Workers[F] | 2 | 2 | 2 |

**Table F-5. Potential Human Exposure Pathways Associated with Operable Unit 5, Fort Wainwright, Alaska (continued)**

| Exposure Pathway/Receptor | West QFS Area | East QFS Area[a] | OB/OD Area |
|---|---|---|---|
| **Ingestion of Surface Water/Sediment[b]** | | | |
| Site Workers[C,F] | 2 | 2 | N |
| Site Visitors[C,F] | N | N | N |
| Site Residents[F] | 2 | 2 | N |
| Construction Workers[F] | 2 | 2 | N |
| **Dermal Contact with Surface Water[b]** | | | |
| Site Workers[C,F] | 2 | 2 | N |
| Site Visitors[C,F] | N | N | N |
| Site Residents[F] | 2 | 2 | N |
| Construction Workers[F] | 2 | 2 | N |

1 Primary exposure pathway. Exposure expected to occur and to be significant.
2 Secondary exposure pathway. Exposure may occur. May or may not be significant.
C Current scenario.
F Future scenario.
N Exposure pathway currently not complete or not expected to occur.

a. Buildings 1060, 1565, 1567, 1053, and 1054 are included in the East QFS area. A comprehensive evaluation of the possible exposure pathways for each building/source area will be included in the human health risk assessment for Operable Unit 5.

b. Surface-water exposure pathways related to the Chena River will be evaluated as part of the postwide risk assessment.

OB/OD Open burning/open detonation
QFS Quartermaster's fueling system
VOC Volatile organic compound

residential scenario will be evaluated in the baseline risk assessment to define the upper range of possible risk associated with the site. If residential development occurs, exposure to subsurface soil (mixed with and/or separate from surface soil) would be likely for construction workers and residents.

Fuel constituents and solvents have been identified in the groundwater. Groundwater in this area is not currently used for industrial or domestic purposes. Therefore, direct ingestion and dermal contact through domestic use of groundwater will be evaluated only under future use scenarios. Dermal contact with groundwater may be possible at locations along the Chena River where groundwater seepage occurs. However, this pathway is considered to be more closely related to potential exposures directly from the river and will be evaluated in the post-wide risk assessment.

Exposure to VOCs that may have migrated into the indoor air of onsite buildings will be evaluated if necessary using the modeling approach described in Section 6.3.

### 6.1.2 East Section, Former Quartermaster's Fueling System Source Area

The East QFS area includes former fueling system components and Buildings 1565, 1567, 1053, 1054, and 1060. Petroleum products have been identified in soil and groundwater at the East QFS area. Potential exposure pathways and receptor populations are expected to be identical to those described in Section 6.1.1 for the West QFS area (see Table F-5).

Building 1565 is located in an area where 1,1,1-trichloroethane (TCA) was identified in groundwater during a fuel spill investigation. Building 1060 is located in an area where trichloroethene (TCE) was identified in groundwater and near-surface soil samples. The TCE may be a result of cleaning solvents used at the building or at a former dry cleaning facility near the site.

Potential exposures from these buildings/plumes may be evaluated separately or as part of the general East QFS area assessment. Analytical data and land use information collected during the RI will be reviewed to assist in developing the most appropriate approach to assessing potential risks from contamination near the buildings.

### 6.1.3 Open Burning/Open Detonation Source Area

The limited sampling results available for the OB/OD area indicate minor levels of chemicals in soil and ponded water. Current populations that could be exposed to site chemicals include site workers, site visitors, and recreational users. Exposures to chemicals in soil could occur via multiple routes, including inhalation of VOCs, inhalation of windblown dust, dermal contact, and incidental ingestion (see Table F-5). However, site visitors are not expected to be exposed through soil ingestion.

A current residential scenario is not appropriate for this area, as no individuals reside onsite. However, a hypothetical future residential scenario may be considered in the baseline risk assessment following discussion with the EPA and the ADEC regarding future land use. If residential development occurs, exposure to subsurface soil (mixed with and/or separate from surface soil) would be likely for construction workers and residents. Potential soil exposure pathways and receptor populations are listed in Table F-5.

Although some chemicals have been identified in water ponded in a detonation crater, surface-water pathways are not expected to be significant. However, surface-water pathways will be evaluated in the risk assessment. If potential exposures are insignificant, they will not be retained for further evaluation. Based on the limited number of chemicals identified in soil at the OB/OD area and the low concentrations of these contaminants (USACE, 1994a), groundwater contamination is not expected to be significant.

## 6.2 Exposure Point Concentrations

An exposure point concentration is the concentration of chemical detected in any of the various media (e.g., soil or groundwater) to which someone could potentially be exposed (e.g., via ingestion or dermal contact). As appropriate for each source area, exposure point concentrations for chemicals in each medium will be calculated for both a reasonable maximum exposure (RME) and an average case exposure scenario. The RME scenario is intended to represent the upper bounds of possible exposures, and uses the 95-percent upper confidence limit of the mean concentration detected in each medium. EPA Region 10 recommends development of an average case exposure scenario (that combines the average chemical concentration with average case exposure parameter values) to aid in evaluating the range of risks that may be present (EPA, 1991a).

Before statistical calculations are performed, validated analytical data will be examined for potential outliers (or hot spots), maximum detected concentrations, and artificially elevated sample quantitation limits (SQLs). EPA Region 10 risk assessment guidance (EPA, 1991a) will be considered when evaluating the spatial distribution of chemicals at each site, and when calculating exposure point concentrations. Most chemicals will not be detected in all samples (i.e., the detection frequency is less than 100 percent). Because of analytical reasons (e.g., matrix or dilution effects), some samples and analytes may have elevated detection limits. For analytes that are detected in at least one sample per media, the following criteria will be used to evaluate the detection limits for the nondetect samples before calculating exposure point concentrations:

- For analytes that are not detected between the maximum detected concentration and twice that, a surrogate concentration term equal to one-half the maximum detected concentration will be used to represent this sample in the exposure point calculations.
- For analytes that are not detected at greater than twice the maximum detected concentration, a surrogate concentration term equal to the maximum will be used to represent this sample in the exposure point calculations.
- For analytes that are not detected at less than the maximum detected concentration, a surrogate concentration term equal to one-half the detection limit will be used to represent this sample in the exposure point calculations.

This approach has been recommended by EPA Region 10 as an acceptably conservative approach for evaluating nondetect samples and samples with elevated detection limits.

## 6.3 Modeling Considerations

Following a review of site analytical data and finalization of exposure pathways for evaluation, some pathways may be evaluated without direct analytical results for specific media. For example, exposures to VOCs and windblown soil particulates may be important through the inhalation pathway. Chemical transport in groundwater may also result in potential offsite exposure. The following modeling approaches will be used if exposure pathways without analytical results are evaluated to be potentially significant.

- **Residential use of groundwater.** Residential use of groundwater could result in the release of VOCs into the home (e.g., through showering or cooking) and subsequent inhalation. As recommended by the EPA (1991a,b), indoor air concentrations will be estimated by assuming that they are related to the concentration in groundwater, according to a coefficient of 0.5 liters per cubic meter ($L/m^3$).
- **Indoor air concentrations.** If a current residential or industrial exposure scenario is present on or near the source area, VOCs in groundwater could migrate through the unsaturated zone and the building foundation to infiltrate the indoor air. The simplified method for chronic exposure assessment in indoor air (Daugherty, 1991) will be used to estimate indoor air concentrations. This method combines site-specific parameters,

such as soil porosity, bulk density, and moisture, with chemical-specific parameters, such as Henry's Law constant and diffusion coefficient, to estimate a chemical flux rate through the soil and the building foundation. Building parameters such as the volume of the building, ventilation rate, and area through which flux occurs will be used to estimate the indoor air concentration.

- **Outdoor air concentrations.** Inhalation of inorganic and semivolatile compounds present in windblown particulates may be an important exposure pathway. The potential contribution of this pathway will be evaluated using the particulate emission factor methodology presented in RAGS Part B (EPA, 1991b). This methodology assumes that the air concentration is related to the surface-soil concentration through a site-specific particulate emission factor. The factor will be derived using site-specific information regarding soil and local meteorology.

Inhalation of VOCs originating from groundwater may also occur outdoors. For receptors that may be exposed to VOCs from identified source areas, outdoor air concentrations will be estimated using the Daugherty model described above to derive a flux rate at ground surface. The box model (Dobbins, 1979) will be used to estimate onsite air concentrations.

Chemicals may volatilize from surface soil to the ambient air with subsequent exposure via inhalation. If surface-soil contamination is identified, a chemical- and site-specific volatilization factor will be estimated using the methodology presented in RAGS Part B (EPA, 1991b). This method assumes that the area of potential exposure is equal to the area of contamination, and that the area of contamination approximates the size of an average residential lot (assumed to be 0.5 acres).

The results of groundwater modeling from studies prepared by the U.S. Geological Survey (USGS) and the Cold Regions Research Engineering Laboratory (CRREL) will be reviewed to evaluate possible impacts from the migration of groundwater contaminants. The results of any modeling will be combined with appropriate exposure and toxicity factors for subsequent risk calculations.

## 6.4 Exposure Factors

EPA Region 10 has provided suggested default values to be used as exposure factor values in the average and RME exposure evaluations. The default values will be used unless site-specific data or conditions indicate that other values would be more appropriate. Site-specific exposure parameters will be discussed with the Army, the EPA, and the ADEC before including them in the risk assessment. Fort Wainwright is in an area of extreme temperature variations, which should be reflected in the selection of exposure parameters. For example, the amount of snow cover may affect the amount of direct soil contact, as well as the potential for windblown dust and volatilization from surface soil. Similarly, surface and subsurface ground temperatures will affect the volatilization rate of chemicals. Recreational use of the nearby Chena River is expected to be limited by the fact that only the month of July has a mean air temperature exceeding 60 degrees Fahrenheit. Exposure parameters for each population and exposure pathway evaluated will be summarized in the HRA.

# 7.0 RISK CHARACTERIZATION

Potential human health risks will be characterized by combining chemical-specific toxicity information with site-specific exposure assumptions. In addition to the standard risk assessment guidance (EPA, 1989), additional risk assessment memoranda (EPA, 1991c; 1992c) will be considered while characterizing potential health risks associated with OU 5. Risk results will be calculated for potential noncarcinogenic health effects and carcinogenic risks for current and potential future populations. Risk characterization will be presented in both text and summary tables. Because several source areas are in OU 5, potential exposures will differ; separate summary tables will be presented for each source area. If exposure to a specific receptor is likely to occur to chemicals originating from two or more source areas simultaneously, results for that receptor will also be provided.

Risk assessment results will include a summary of the total risks for each population, the risks associated with each pathway, and the contribution of each chemical to the estimated risks in each exposure pathway. Because only a few chemicals may be responsible for the majority of the total risk, the chemical-specific contribution to the total risk will also be presented.

If the noncarcinogenic hazard indices exceed 1.0, it may be necessary to segregate noncarcinogenic chemicals according to their critical effect, target organ, or mechanism of action (EPA, 1989). Because noncarcinogenic chemicals may affect the body in different ways, the true hazard may be overestimated if, for example, chemicals affecting the liver are pooled with chemicals affecting the kidneys. Segregation will be performed, if needed, on site- and media-specific bases.

Risks from site-related chemicals will be distinguished from those associated with naturally occurring background chemicals. This approach relies on adequately characterizing background concentrations of inorganic chemicals (and ubiquitous anthropogenic organic chemicals). Identifying the incremental risk associated with site chemicals is essential for risk management decisions at OU 5, because it is not feasible to clean up below background levels.

## 8.0 UNCERTAINTIES IN THE RISK ASSESSMENT

Uncertainties are inherent in the risk assessment process due to the numerous assumptions that must be made. By understanding the uncertainties, the potential for overestimating or underestimating possible site risks may be ascertained and accounted for in risk management decisions. The following sources of uncertainty as they apply to OU 5, and the effect on estimated risk levels will be discussed in the risk assessment.

- **Adequacy of Site Data.** Site data will include background information on current and future land use, site history, physical setting, geology, and hydrogeology.
- **Adequacy of Analytical Data.** The quality of data used to establish the nature and extent of contamination, and data reduction and validation procedures will be included. The representativeness of the site sampling (i.e., biased or random) will also affect the assessment of chemical distribution at a site.
- **Adequacy of Toxicological Data.** Although toxicological data used in the risk assessment will be taken from EPA sources, a number of limitations and uncertainties are associated with toxicity data. Additionally, toxicity data may not be available for all chemicals and exposure pathways. Because dermal toxicity values have not been developed, risks calculated for this pathway (based on oral toxicity values) are highly uncertain.
- **Fate and Transport Considerations.** The baseline risk assessment for OU 5 may not include consideration of biodegradation, chemical decay, or retardation over time (i.e., source depletion will not be considered in the evaluation of future exposure pathways or populations). However, should these considerations be included, there are corresponding uncertainties in their use. If groundwater or air modeling is necessary to estimate exposure point concentrations, the uncertainties associated with the modeling assumptions will be discussed.
- **Identification of Exposure Point Concentrations.** Average and RME exposure point concentrations are based on the distribution of data and assumptions made for the statistical treatment of data. Sampling biases and subsequent effects on the exposure point concentrations may have a significant effect on estimated risks.
- **Exposure Assessment.** The potential uncertainties in the exposure assessment include the identification and evaluation of current and/or potential exposure pathways expected to be significant contributors to overall risk, selection of exposure and intake assumptions that are representative of the population being evaluated, and assumption of dose uniformity to all individuals within a particular receptor group.
- **Risk Characterization.** Uncertainties in the risk characterization encompass the consideration, or lack of consideration, of antagonistic or synergistic effects among chemicals, the use of carcinogenic SFs for less-than-lifetime exposures, and the application of exposure route-specific toxicity factors to a different exposure route (e.g., oral toxicity applied to dermal or inhalation exposures).

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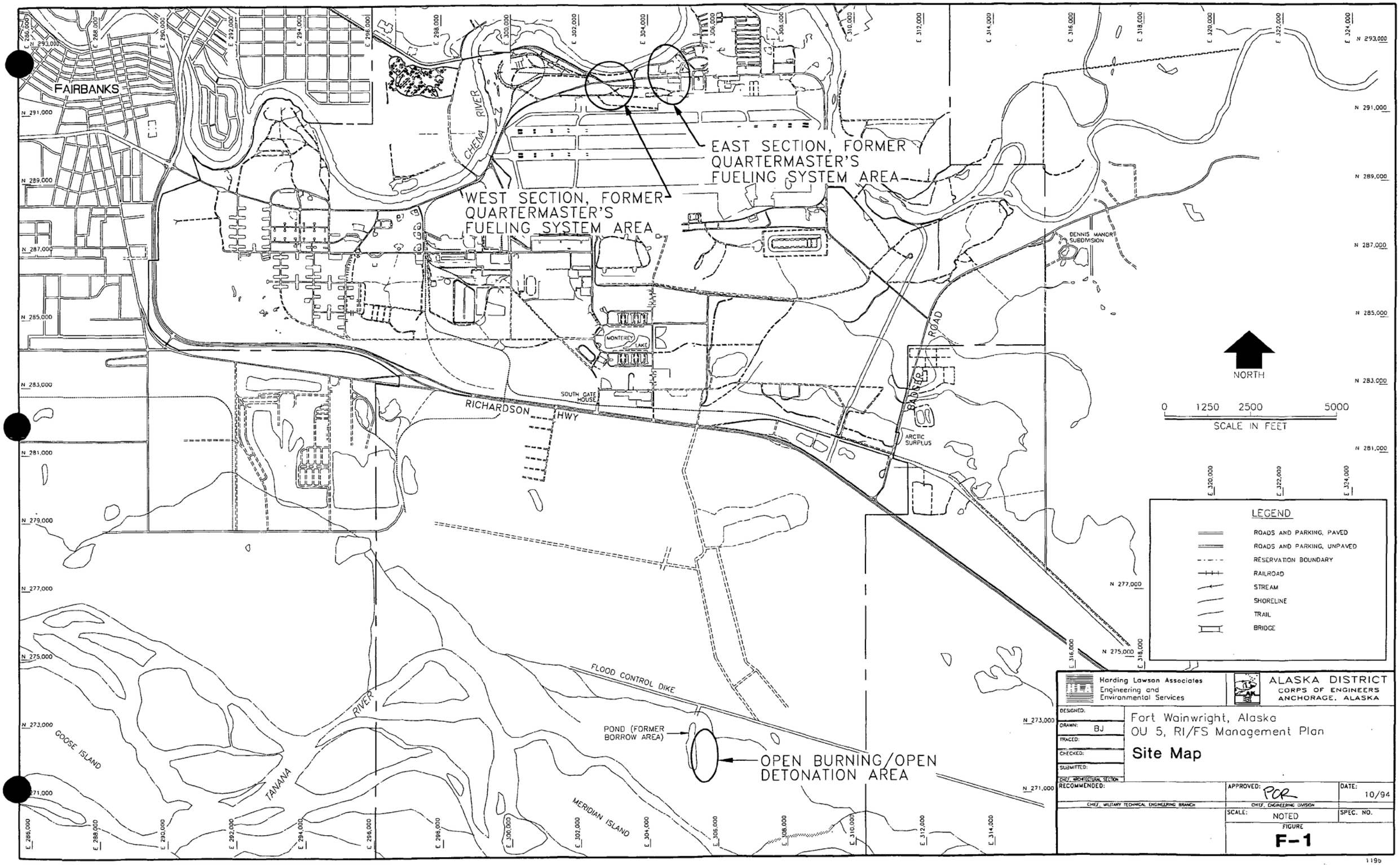
# FIGURE


FAIRBANKS
CHENA RIVER
EAST SECTION, FORMER QUARTERMASTER'S FUELING SYSTEM AREA
WEST SECTION, FORMER QUARTERMASTER'S FUELING SYSTEM AREA
DENNIS MANOR SUBDIVISION
MONTEREY LAKE
SOUTH GATE HOUSE
RICHARDSON HWY
BADGER ROAD
ARCTIC SURPLUS
NORTH
0 1250 2500 5000
SCALE IN FEET
LEGEND
ROADS AND PARKING, PAVED
ROADS AND PARKING, UNPAVED
RESERVATION BOUNDARY
RAILROAD
STREAM
SHORELINE
TRAIL
BRIDGE
FLOOD CONTROL DIKE
POND (FORMER BORROW AREA)
OPEN BURNING/OPEN DETONATION AREA
GOOSE ISLAND
TANANA RIVER
MERIDIAN ISLAND
Harding Lawson Associates
Engineering and Environmental Services
ALASKA DISTRICT
CORPS OF ENGINEERS
ANCHORAGE, ALASKA
DESIGNED:
DRAWN: BJ
TRACED:
CHECKED:
SUBMITTED:
CHIEF, ARCHITECTURAL SECTION
RECOMMENDED:
CHIEF, MILITARY TECHNICAL ENGINEERING BRANCH
APPROVED: PCR
CHIEF, ENGINEERING DIVISION
DATE: 10/94
SCALE: NOTED
SPEC. NO.
FIGURE
F-1
Fort Wainwright, Alaska
OU 5, RI/FS Management Plan
Site Map

# Operable Unit 5
# Qualitative Ecological
# Risk Assessment Approach
# Fort Wainwright, Alaska

Prepared for

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## 1.0 INTRODUCTION

A qualitative ecological risk assessment (ERA) will be included in the remedial investigation (RI) activities for the Fort Wainwright Operable Unit (OU) 5 source areas. OU 5 consists of three source areas: the east and west sections of the former Quartermaster's fueling system, and the open burning/open detonation (OB/OD) area. The purpose of the ERA is to evaluate the potential for adverse effects to ecological receptors that may be exposed to chemicals associated with OU 5 source areas. Specifically, the ERA will 1) assess the potential impacts of the groundwater plums north of the airfield to aquatic receptors in the Chena River; 2) assess the potential impacts of surficial contamination at the east and west sections of the former Quartermaster's fueling system to terrestrial receptors; and 3) assess the potential impacts of chemicals to terrestrial receptors, nearby wetlands, and aquatic habitats at the OB/OD site. The OU 5 ERA, with the ERAs prepared for the other OUs at Fort Wainwright, will help to define the scope of the postwide ERA scheduled for 1995.

The ERA will be guided by the following:

- The U.S. Environmental Protection Agency's (EPA's) *Risk Assessment Guidance for Superfund Volume II, Environmental Evaluation Manual* (1989a);
- The EPA's *Ecological Assessment of Superfund Sites: An Overview* (1991);
- The EPA's *Framework for Ecological Risk Assessment* (1992).
- The U.S. Army's *Procedural Guidelines for Ecological Risk Assessments at U.S. Army Sites, volume I* (1994).

Other applicable ecological assessment guidance documents will be consulted as appropriate. Specific ERA activities include 1) preliminary data gathering, 2) field surveys, and 3) reporting. The approaches and methods for the ERA activities at OU 5 are described in the following sections.

## 2.0 DATA GATHERING ACTIVITIES

Before conducting field surveys, preliminary information will be gathered to facilitate data collecting in the field. Available biological surveys and reports that discuss terrestrial and aquatic ecosystems at Fort Wainwright and the vicinity will be reviewed. Applicable reference publications, including the following, will be reviewed to aid in describing terrestrial habitats and developing plant lists:

- The Alaska Vegetation Classification. 1992. L.A. Viereck, et al., in *General Technical Report PNW-GTR-286*. Pacific Northwest Research Station, U.S. Department of Agriculture (USDA) Forest Service, Portland, Oregon.
- *Flora of Alaska and Neighboring Territories*. 1986. E. Hulten, Stanford University Press, Stanford, California.
- *Alaska Trees and Shrubs*. 1988. L.A. Viereck and E.L. Little, Jr., Agricultural Handbook No. 410, Forest Service, USDA, Washington, D.C.

Information on special status species and sensitive environments will be obtained from the following sources:

- For federal-listed threatened and endangered plant and animal species, critical habitat:

  U.S. Fish and Wildlife Service
  Northern Alaska Ecological Services
  1412 Airport Way
  Fairbanks, Alaska 99701
  (907) 456-0427

- For state-listed threatened and endangered animal species:

  Alaska Department of Fish and Game
  1300 College Road
  Fairbanks, Alaska 99701-1599
  (907) 456-5156

- For location-specific data on federal- and state-listed threatened and endangered plant and animal species, and species that do not

have regulatory status but are considered of special concern by the scientific community:

Alaska Natural Heritage Program
707 A Street, Suite 208
Anchorage, Alaska 99501
(907) 257-2702

## 3.0 FIELD SURVEY ACTIVITIES

Field surveys will be conducted during summer 1995 for each OU 5 source area to characterize the terrestrial and aquatic ecological communities and habitat types present. Field surveys will be performed by qualified personnel who specialize in identifying vegetation and terrestrial and aquatic fauna, as required. Terrestrial field surveys will include the following:

- Mapping vegetation community types, including areas that are unnaturally denuded;
- Recording observed plant species;
- Recording animal tracks, trails, burrows, and other signs (e.g., scat, vocalizations);
- Recording observed animal species;
- Photographing ecological features onsite and in the vicinity;
- Recording overt signs of stress to plants or animals.

Aquatic field surveys will note the following:

- Proximity of source areas to aquatic habitats;
- Aquatic habitat type (width, depth, flow, substrate);
- Presence of aquatic organisms (algae, macrophytes, invertebrates, fish);
- Anticipated contaminant hot spots and areas of maximum sediment deposition along the potential chemical migration pathway.

U.S. Army Corps of Engineers Wetland Boundary maps and National Wetland Inventory maps, in conjunction with the following companion documents, will be used to establish the general locations of wetlands near OU 5 source areas.

- *Classification of Wetlands and Deepwater Habitats of the United States*. 1987. L.M. Cowardin, et al. Office of Biological Services, U.S. Fish and Wildlife Service, Washington, D.C.
- National List of Plant Species that Occur in Wetlands: Alaska. 1988. *U.S. Fish and Wildlife Service Biological Report*, May.

Field activities will comply with the site safety and health plan to be developed for OU 5.

## 4.0 REPORTING

The ERA will be included as part of the draft OU 5 remedial investigation/feasibility study report. The ERA will be organized as recommended in *Framework for Ecological Risk Assessment* (EPA, 1992), and will consist of the following sections:

- Environmental Setting (4.1)
- Ecological Field Survey Results (4.2)
- Problem Formulation (4.3)
- Exposure Analysis (4.4)
- Risk Characterization (4.5)
- Summary (4.6)

These sections are described below.

### 4.1 Environmental Setting

This section will describe the environmental setting for Fort Wainwright, including relevant physical and ecological components. This section will include (or reference other documents as appropriate) threatened and endangered species, plant and animal species lists, and information essential to understanding the local habitat of Fort Wainwright and potential ecological receptors at OU 5

### 4.2 Ecological Field Survey Results

Results of the ecological field survey at the OU 5 source areas will be presented in this section. Habitat maps illustrating locations of terrestrial and aquatic habitat types, wetlands, surface-water features, and other ecologically significant features (e.g., nesting sites of sensitive avian

species) will be provided. Site observations such as signs of stressed vegetation or animal mortality will also be described in this section.

### 4.3 Problem Formulation

Problem formulation is the first stage of the ERA process and establishes the goals and focus of the assessment. The problems identified in this section must be consistent with the goals of the overall project, and must be defined early so the involved parties agree on the objectives. This section will 1) discuss physical and chemical stressors associated with OU 5; 2) identify chemicals of potential concern; 3) describe the ecosystem potentially at risk; 4) discuss potential ecological effects; 5) define the measurement and assessment endpoints; and 6) present the conceptual site model for OU 5.

### 4.4 Exposure Analysis

The possible exposure of ecological receptors to chemicals of potential concern will be analyzed at this stage. The analysis is based on exposure pathways identified in the conceptual site model. This section will identify indicator species for OU 5, calculate media-specific exposure point concentrations, and evaluate relevant effects data for indicator species available in the literature.

### 4.5 Risk Characterization

Risk characterization is the final stage of the ERA, and combines chemical-specific toxicity data with appropriate exposure assumptions. The risk characterization will present a qualitative discussion of the potential for toxic effects to occur to the indicator species from possible chemical exposures.

The potential for adverse impacts to terrestrial indicator species from exposure to affected sediment and soil will be evaluated by comparing exposure point concentrations to chemical-specific toxicity values for similar taxa reported in the available literature.

Estimated exposure point concentrations in surface water will be compared to federal ambient water quality criteria. The comparison will be used to assess the potential for adverse effects of chemicals in surface water to aquatic plants and animals.

The potential for adverse impacts to waterfowl and other aquatic species from exposure to affected sediment will be evaluated by comparing exposure point concentrations to chemical-specific toxicity values for similar taxa reported in the available literature, or from other regulatory agencies (e.g., freshwater sediment quality criteria from Canada or the State of Washington).

### 4.6 Summary

A summary of the results of the risk characterization and a review of any uncertainties associated with the methods used in the ERA will be provided in this section. An interpretation of the effect of these uncertainties on the conclusions drawn in the ERA will also be provided.

## 5.0 REFERENCES

EPA (U.S. Environmental Protection Agency). 1989a. *Risk assessment guidance for Superfund, vol. II, environmental evaluation manual, interim final.* EPA/540/1-89/001. Office of Emergency and Remedial Response, Washington, D.C., March.

EPA. 1991. *Ecological assessments of Superfund sites: an overview*, ECO update intermittent bulletin, vol. I, no. 2. Office of Emergency and Remedial Response, Washington, D.C., December.

EPA. 1992. *Framework for ecological risk assessment.* EPA/630/R-92/001, February.

U.S. Army. 1994. *Procedural guidelines for ecological risk assessments at U.S. Army sites, volume I.* Report number ERDEC-TR-221, December.

# Appendix G
# Summaries of Past Data

# APPENDIX G

## SUMMARIES OF PAST DATA

## APPENDIX G

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BUILDING 1060 INVESTIGATIONS

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WELL SURVEY

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Fort Wainwright Analytical Results Summary (includes groundwater data from wells near Buildings 1053, 1054, 1567, and 1599)

OPERABLE UNIT 1, PRELIMINARY SOURCE EVALUATION 2

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NORTH AIRFIELD SITE INVESTIGATION

1994 North Airfield Groundwater Results
1994 North Airfield Soil Results

OPEN BURNING/OPEN DETONATION AREA

1994 Open Burning/Open Detonation Area Soil and Water Results

Note: Appendix G is a compilation of existing chemical data from reports by HLA, CH2M Hill, EMCON Alaska, and the USACE Alaska District as detailed on the following divider sheets. Information concerning the interpretation and quality of the data is presented in the original reports.

## 1993 Building 1060 Soil Log

Source: CH2M HILL, August 1994
Fort Wainwright Underground Storage Tank Sites Investigation
Delivery Order 9
Contract No. DACA 85-92-D-007

# 1993 Building 1060 Soil Log

| Sample Number | | Boring Number | Depth (feet) | Date | Lab | QA/QC | Method 8015 | 8100 | 418.1 | 8240 | 415.1 | 160.3 | 8270 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
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| 93106013 | SR | AP-6383 | 15 | 7/21/93 | CAS | | X | X | X | X | X | X | |
| 93106020 | SR | AP-6294 | | 7/21/93 | CAS | RB | X RB | X RB | X RB | X RB | | | X RB |
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| 93106023 | SR | AP-6294 | 10 | 7/21/93 | CAS | FD | X FD | | | X FD | | X | |
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# 1993 Building 1060 Soil Log

| Sample Number | | Boring Number | Depth (feet) | Date | Lab | QA/QC | Method 8015 | 8100 | 418.1 | 8240 | 415.1 | 160.3 | 8270 |
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| 93106091 | SR | AP-6393 | 5 | 7/23/93 | CAS | FD | X FD | | | X FD | | | |
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| 93106096 | SR | AP-6394 | 8 | 7/23/93 | CAS | | X | | | X | | | |
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| 93106025 | SL | AP-6295 | 0 | 7/9/93 | CAS | | | X | X | | | X | |
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| 93106027 | SL | AP-6295 | 8 | 7/9/93 | CAS | | | X | X | | | X | |
| 93106031 | SL | AP-6384 | 0 | 7/9/93 | CAS | | | X | X | | | X | |
| 93106032 | SL | AP-6384 | 5 | 7/9/93 | CAS | | | X | X | | | X | |
| 93106033 | SL | AP-6384 | 10 | 7/9/93 | CAS | | | X | X | | | X | |
| 93106034 | SL | AP-6384 | 15 | 7/9/93 | CAS | | | X | X | | | X | |
| 93106035 | SL | AP-6384 | 20 | 7/9/93 | CAS | | | X | X | | | X | |
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| 93106042 | SL | AP-6385 | 15 | 7/9/93 | CAS | | | X | X | | | X | |
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| 93106055 | SL | AP-6386 | 10 | 7/9/93 | CAS | | | X | X | | | X | |
| 93106056 | SL | AP-6386 | 15 | 7/9/93 | CAS | | | X | X | | | X | |
| 93106057 | SL | AP-6386 | 20 | 7/9/93 | CAS | | | X | X | | | X | |
| 93106058 | SL | AP-6386 | 0 | 7/9/93 | CAS | | | X | X | | | X | |
| 93106059 | SL | AP-6387 | 5 | 7/9/93 | CAS | | | X | X | | | X | |
| 93106060 | SL | AP-6387 | 10 | 7/9/93 | CAS | | | X | X | | | X | |
| 93106061 | SL | AP-6387 | 15 | 7/9/93 | CAS | | | X | X | | | X | |
| 93106062 | SL | AP-6387 | 20 | 7/9/93 | CAS | | | X | X | | | X | |
| 93106063 | SL | AP-6388 | 0 | 7/10/93 | NET | SS | | X SS | X SS | | | X | |
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| 93106065 | SL | AP-6388 | 0 | 7/10/93 | CAS | FD | | X FD | X FD | | | X | |
| 93106066 | SL | AP-6388 | 5 | 7/10/93 | CAS | | | X | X | | | X | |
| 93106067 | SL | AP-6388 | 10 | 7/10/93 | CAS | | | X | X | | | X | |
| 93106068 | SL | AP-6388 | 15 | 7/10/93 | CAS | | | X | X | | | X | |
| 93106069 | SL | AP-6388 | 20 | 7/10/93 | CAS | | | X | X | | | X | |
| 93106070 | SL | AP-6389 | 0 | 7/10/93 | CAS | | | X | X | | X | X | X |

# 1993 Building 1060 Soil Log

| Sample | | Boring | Depth | Date | Lab | QA/QC | Method | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
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| 93106073 | SL | AP-6389 | 10 | 7/10/93 | CAS | FD | | | | | X FD | X | X |
| 93106074 | SL | AP-6389 | 10 | 7/10/93 | CAS | FD | | | | | X FD | X | X |
| 93106075 | SL | AP-6389 | 10 | 7/70/93 | CAS | FD | | | | | X FD | X | X |
| 93106076 | SL | AP-6389 | 15 | 7/10/93 | CAS | | | X | X | | X | X | X |
| 93106080 | SL | AP-6389 | 20 | 7/10/93 | CAS | | | X | X | | | X | |
| 93106081 | SL | AP-6390 | 0 | 7/10/93 | CAS | | | X | X | | | X | |
| 93106082 | SL | AP-6390 | 5 | 7/10/93 | NET | SS | | X SS | X SS | | | X | |
| 93106083 | SL | AP-6390 | 5 | 7/10/93 | CAS | | | X | X | | | X | |
| 93106084 | SL | AP-6390 | 5 | 7/10/93 | CAS | FD | | X FD | X FD | | | X | |
| 93106085 | SL | AP-6390 | 5 | 7/10/93 | CAS | MS/FD | | X MS/FD | X MS/FD | | | X | |
| 93106086 | SL | AP-6390 | 5 | 7/10/93 | CAS | MSD | | X MSD | X MSD | | | X | |
| 93106087 | SL | AP-6390 | 10 | 7/10/93 | CAS | MS/MSD | | X MS/MSD | X MS/MSD | | | X | |
| 93106088 | SL | AP-6390 | 15 | 7/10/93 | CAS | | | X | X | | | X | |
| 93106089 | SL | AP-6390 | 20 | 7/10/93 | CAS | | | X | X | | | X | |
| 93106090 | SL | AP-6391 | 0 | 7/14/93 | NET | SS | | X SS | X SS | | | X | |
| 93106091 | SL | AP-6391 | 0 | 7/14/93 | CAS | FD | | X FD | X FD | | | X | |
| 93106092 | SL | AP-6391 | 0 | 7/14/93 | CAS | | | X | X | | | X | |
| 93106093 | SL | AP-6391 | 5 | 7/14/93 | CAS | | | X | X | | | X | |
| 93106094 | SL | AP-6391 | 10 | 7/14/93 | CAS | | | X | X | | | X | |
| 93106095 | SL | AP-6391 | 15 | 7/14/93 | CAS | | | X | X | | | X | |
| 93106096 | SL | AP-6391 | 20 | 7/14/93 | CAS | | | X | X | | | X | |
| 93106097 | SL | AP-6392 | 0 | 7/15/93 | CAS | | | X | X | | | X | |
| 93106098 | SL | AP-6392 | 5 | 7/15/93 | CAS | | | X | X | | | X | |
| 93106099 | SL | AP-6392 | 10 | 7/15/93 | CAS | | | X | X | | | X | |
| 93106100 | SL | AP-6392 | 10 | 7/15/93 | CAS | | | | | | X | X | X |
| 93106102 | SL | AP-6392 | 15 | 7/15/93 | CAS | | | X | X | | | X | |
| 93106105 | SL | AP-6392 | 20 | 7/15/93 | CAS | | | X | X | | | X | |
| 93106106 | SL | AP-6393 | 0 | 7/15/93 | CAS | | | X | X | | | X | |
| 93106107 | SL | AP-6393 | 5 | 7/15/93 | NET | SS | | X SS | X SS | | | X | |
| 93106108 | SL | AP-6393 | 5 | 7/15/93 | CAS | | | X | X | | | X | |
| 93106110 | SL | AP-6393 | 5 | 7/15/93 | CAS | FD | | X FD | X FD | | | X | |
| 93106111 | SL | AP-6393 | 10 | 7/15/93 | CAS | | | X | X | | | X | |
| 93106112 | SL | AP-6393 | 15 | 7/15/93 | CAS | | | X | X | | | X | |
| 93106113 | SL | AP-6393 | 20 | 7/15/93 | CAS | | | X | X | | | X | |
| 93106114 | SL | AP-6394 | 0 | 7/15/93 | CAS | | | X | X | | | X | |
| 93106115 | SL | AP-6394 | 5 | 7/15/93 | CAS | | | X | X | | | X | |
| 93106116 | SL | AP-6394 | 10 | 7/15/93 | CAS | | | X | X | | | X | |
| 93106117 | SL | AP-6394 | 15 | 7/15/93 | CAS | | | X | X | | | X | |
| 93106119 | SL | AP-6394 | 20 | 7/15/93 | CAS | | | X | X | | | X | |

## 1993 Building 1060 Soil Data

Source: CH2M HILL, August 1994
Fort Wainwright Underground Storage Tank Sites Investigation
Delivery Order 9
Contract No. DACA85-92-D-007

# 1993 Building 1060 Soil Data

| Sample Number | | Method | Chemical | Det Conc | Det Limit | Units | Flags |
|---|---|---|---|---|---|---|---|
| 93106001 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 1.1 | mg/kg | |
| 93106002 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 1.1 | mg/kg | |
| 93106003 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 1.2 | mg/kg | |
| 93106004 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 1.2 | mg/kg | |
| 93106005 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 1.3 | mg/kg | |
| 93106006 | SR | GRO,8015 (ADEC MOD) | Gasoline | 1100 | 50 | mg/kg | |
| 93106007 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 5 | mg/kg | |
| 93106008 | SR | GRO,8015 (ADEC MOD) | Gasoline | 73 | 5 | mg/kg | |
| 93106009 | SR | GRO,8015 (ADEC MOD) | Gasoline | 2200 | 50 | mg/kg | |
| 93106013 | SR | GRO,8015 (ADEC MOD) | Gasoline | 4000 | 50 | mg/kg | |
| 93106020 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 50 | ug/l | RB |
| 93106017 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 5 | mg/kg | |
| 93106018 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 5 | mg/kg | |
| 93106019 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 1.2 | mg/kg | |
| 93106021 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 5 | mg/kg | |
| 93106023 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 5 | mg/kg | |
| 93106024 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 5 | mg/kg | |
| 93106025 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 5 | mg/kg | |
| 93106026 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 5 | mg/kg | |
| 93106027 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 5 | mg/kg | |
| 93106028 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 5 | mg/kg | |
| 93106029 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 5 | mg/kg | |
| 93106030 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 5 | mg/kg | |
| 93106031 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 5 | mg/kg | |
| 93106032 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 1.3 | mg/kg | |
| 93106033 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 5 | mg/kg | |
| 93106034 | SR | GRO,8015 (ADEC MOD) | Gasoline | 4000 | 50 | mg/kg | |
| 93106036 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 5 | mg/kg | |
| 93106037 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 5 | mg/kg | |
| 93106038 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 5 | mg/kg | |
| 93106047 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 5 | mg/kg | |
| 93106039 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 5 | mg/kg | |
| 93106040 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 5 | mg/kg | |
| 93106048 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 1.2 | mg/kg | |
| 93106041 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 5 | mg/kg | |
| 93106050 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 5 | mg/kg | |
| 93106042 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 5 | mg/kg | |
| 93106053 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 5 | mg/kg | |
| 93106054 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 5 | mg/kg | |
| 93106055 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 5 | mg/kg | |
| 93106056 | SR | GRO,8015 (ADEC MOD) | Gasoline | 5200 | 50 | mg/kg | |
| 93106058 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 5 | mg/kg | |
| 93106059 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 5 | mg/kg | |
| 93106060 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 5 | mg/kg | |
| 93106061 | SR | GRO,8015 (ADEC MOD) | Gasoline | 440 | 50 | mg/kg | |
| 93106063 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 1 | mg/kg | |
| 93106064 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 5 | mg/kg | |
| 93106065 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 5 | mg/kg | |
| 93106066 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 5 | mg/kg | |
| 93106067 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 5 | mg/kg | |
| 93106068 | SR | GRO,8015 (ADEC MOD) | Gasoline | 2400 | 50 | mg/kg | |
| 93106069 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 5 | mg/kg | |
| 93106071 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 5 | mg/kg | |
| 93106072 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 5 | mg/kg | |
| 93106049 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 5 | ug/l | RB |
| 93106070 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 5 | ug/l | RB |
| 93106073 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 5 | mg/kg | |
| 93106074 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 5 | mg/kg | |
| 93106075 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 5 | mg/kg | |
| 93106076 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 5 | mg/kg | |
| 93106077 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 1 | mg/kg | |
| 93106078 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 5 | mg/kg | |
| 93106079 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 5 | mg/kg | |
| 93106080 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 5 | mg/kg | |
| 93106081 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 5 | mg/kg | |
| 93106082 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 5 | mg/kg | |
| 93106083 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 5 | mg/kg | |
| 93106084 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 5 | mg/kg | |
| 93106085 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 5 | mg/kg | |
| 93106086 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 5 | mg/kg | |
| 93106087 | SR | GRO,8015 (ADEC MOD) | Gasoline | 106 | 5 | mg/kg | |
| 93106088 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 1 | mg/kg | |
| 93106089 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 5 | mg/kg | |

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|---|---|---|---|---|---|---|---|
| 93106090 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 5 | mg/kg | |
| 93106091 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 5 | mg/kg | |
| 93106092 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 5 | mg/kg | |
| 93106093 | SR | GRO,8015 (ADEC MOD) | Gasoline | 1800 | 50 | mg/kg | |
| 93106094 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 5 | mg/kg | |
| 93106095 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 5 | mg/kg | |
| 93106096 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 5 | mg/kg | |
| 93106097 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 5 | mg/kg | |
| 93106098 | SR | GRO,8015 (ADEC MOD) | Gasoline | ND | 50 | ug/l | RB |
| 93106001 | SL | DRO,8100 (ADEC MOD) | Diesel | 280 | 4.3 | mg/kg | |
| 93106002 | SL | DRO,8100 (ADEC MOD) | Diesel | 560 | 30 | mg/kg | |
| 93106004 | SL | DRO,8100 (ADEC MOD) | Diesel | 21 | 10 | mg/kg | |
| 93106005 | SL | DRO,8100 (ADEC MOD) | Diesel | 26 | 10 | mg/kg | |
| 93106006 | SL | DRO,8100 (ADEC MOD) | Diesel | 11 | 10 | mg/kg | |
| 93106006 | SR | DRO,8100 (ADEC MOD) | Diesel | 19 | 10 | mg/kg | |
| 93106029 | SL | DRO,8100 (ADEC MOD) | Diesel | ND | 10 | mg/kg | |
| 93106007 | SL | DRO,8100 (ADEC MOD) | Diesel | 240 | 30 | mg/kg | |
| 93106008 | SL | DRO,8100 (ADEC MOD) | Diesel | 114 | 10 | mg/kg | |
| 93106009 | SL | DRO,8100 (ADEC MOD) | Diesel | 2800 | 10 | mg/kg | |
| 93106013 | SL | DRO,8100 (ADEC MOD) | Diesel | 188 | 10 | mg/kg | |
| 93106013 | SR | DRO,8100 (ADEC MOD) | Diesel | 120 | 20 | mg/kg | |
| 93106030 | SL | DRO,8100 (ADEC MOD) | Diesel | 12 | 10 | mg/kg | |
| 93106020 | SR | DRO,8100 (ADEC MOD) | Diesel | ND | 50 | ug/l | RB |
| 93106017 | SL | DRO,8100 (ADEC MOD) | Diesel | ND | 10 | mg/kg | |
| 93106020 | SL | DRO,8100 (ADEC MOD) | Diesel | 194 | 50 | mg/kg | |
| 93106022 | SL | DRO,8100 (ADEC MOD) | Diesel | 180 | 50 | mg/kg | |
| 93106023 | SL | DRO,8100 (ADEC MOD) | Diesel | 190 | 50 | mg/kg | |
| 93106024 | SR | DRO,8100 (ADEC MOD) | Diesel | ND | 10 | mg/kg | |
| 93106025 | SL | DRO,8100 (ADEC MOD) | Diesel | 60 | 50 | mg/kg | |
| 93106026 | SL | DRO,8100 (ADEC MOD) | Diesel | ND | 10 | mg/kg | |
| 93106027 | SL | DRO,8100 (ADEC MOD) | Diesel | ND | 10 | mg/kg | |
| 93106031 | SL | DRO,8100 (ADEC MOD) | Diesel | 110 | 50 | mg/kg | |
| 93106032 | SL | DRO,8100 (ADEC MOD) | Diesel | 190 | 10 | mg/kg | |
| 93106033 | SL | DRO,8100 (ADEC MOD) | Diesel | 21 | 10 | mg/kg | |
| 93106034 | SL | DRO,8100 (ADEC MOD) | Diesel | 619 | 10 | mg/kg | |
| 93106034 | SR | DRO,8100 (ADEC MOD) | Diesel | 145 | 10 | mg/kg | |
| 93106035 | SL | DRO,8100 (ADEC MOD) | Diesel | 16 | 10 | mg/kg | |
| 93106036 | SL | DRO,8100 (ADEC MOD) | Diesel | 280 | 50 | mg/kg | |
| 93106037 | SL | DRO,8100 (ADEC MOD) | Diesel | 62 | 10 | mg/kg | |
| 93106038 | SL | DRO,8100 (ADEC MOD) | Diesel | ND | 10 | mg/kg | |
| 93106039 | SL | DRO,8100 (ADEC MOD) | Diesel | 140 | 50 | mg/kg | |
| 93106040 | SL | DRO,8100 (ADEC MOD) | Diesel | 224 | 10 | mg/kg | |
| 93106041 | SL | DRO,8100 (ADEC MOD) | Diesel | 33 | 10 | mg/kg | |
| 93106042 | SL | DRO,8100 (ADEC MOD) | Diesel | 10 | 10 | mg/kg | |
| 93106043 | SL | DRO,8100 (ADEC MOD) | Diesel | ND | 10 | mg/kg | |
| 93106053 | SL | DRO,8100 (ADEC MOD) | Diesel | ND | 10 | mg/kg | |
| 93106054 | SL | DRO,8100 (ADEC MOD) | Diesel | 230 | 30 | mg/kg | |
| 93106055 | SL | DRO,8100 (ADEC MOD) | Diesel | 17 | 10 | mg/kg | |
| 93106056 | SL | DRO,8100 (ADEC MOD) | Diesel | 4500 | 20 | mg/kg | |
| 93106056 | SR | DRO,8100 (ADEC MOD) | Diesel | 180 | 10 | mg/kg | |
| 93106057 | SL | DRO,8100 (ADEC MOD) | Diesel | 33 | 10 | mg/kg | |
| 93106058 | SL | DRO,8100 (ADEC MOD) | Diesel | 480 | 30 | mg/kg | |
| 93106059 | SL | DRO,8100 (ADEC MOD) | Diesel | 72 | 30 | mg/kg | |
| 93106060 | SL | DRO,8100 (ADEC MOD) | Diesel | ND | 10 | mg/kg | |
| 93106061 | SL | DRO,8100 (ADEC MOD) | Diesel | 70 | 10 | mg/kg | |
| 93106062 | SL | DRO,8100 (ADEC MOD) | Diesel | 34 | 10 | mg/kg | |
| 93106063 | SL | DRO,8100 (ADEC MOD) | Diesel | 81 | 4.1 | mg/kg | |
| 93106064 | SL | DRO,8100 (ADEC MOD) | Diesel | ND | 10 | mg/kg | |
| 93106065 | SL | DRO,8100 (ADEC MOD) | Diesel | 120 | 30 | mg/kg | |
| 93106066 | SL | DRO,8100 (ADEC MOD) | Diesel | 40 | 30 | mg/kg | |
| 93106067 | SL | DRO,8100 (ADEC MOD) | Diesel | 58 | 30 | mg/kg | |
| 93106068 | SL | DRO,8100 (ADEC MOD) | Diesel | 25 | 10 | mg/kg | |
| 93106069 | SL | DRO,8100 (ADEC MOD) | Diesel | ND | 10 | mg/kg | |
| 93106070 | SL | DRO,8100 (ADEC MOD) | Diesel | 100 | 30 | mg/kg | |
| 93106071 | SL | DRO,8100 (ADEC MOD) | Diesel | ND | 10 | mg/kg | |
| 93106072 | SL | DRO,8100 (ADEC MOD) | Diesel | 12 | 10 | mg/kg | |
| 93106076 | SL | DRO,8100 (ADEC MOD) | Diesel | 13 | 10 | mg/kg | |
| 93106080 | SL | DRO,8100 (ADEC MOD) | Diesel | ND | 10 | mg/kg | |
| 93106081 | SL | DRO,8100 (ADEC MOD) | Diesel | 91 | 30 | mg/kg | |
| 93106082 | SL | DRO,8100 (ADEC MOD) | Diesel | ND | 4.7 | mg/kg | |
| 93106083 | SL | DRO,8100 (ADEC MOD) | Diesel | 14 | 10 | mg/kg | |
| 93106084 | SL | DRO,8100 (ADEC MOD) | Diesel | 13 | 10 | mg/kg | |
| 93106085 | SL | DRO,8100 (ADEC MOD) | Diesel | 13 | 10 | mg/kg | |
| 93106086 | SL | DRO,8100 (ADEC MOD) | Diesel | ND | 10 | mg/kg | |

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|---|---|---|---|---|---|---|---|
| 93106087 | SL | DRO,8100 (ADEC MOD) | Diesel | ND | 10 | mg/kg | |
| 93106088 | SL | DRO,8100 (ADEC MOD) | Diesel | ND | 10 | mg/kg | |
| 93106089 | SL | DRO,8100 (ADEC MOD) | Diesel | ND | 10 | mg/kg | |
| 93106090 | SL | DRO,8100 (ADEC MOD) | Diesel | 48 | 4.4 | mg/kg | |
| 93106091 | SL | DRO,8100 (ADEC MOD) | Diesel | 110 | 30 | mg/kg | |
| 93106092 | SL | DRO,8100 (ADEC MOD) | Diesel | 92 | 30 | mg/kg | |
| 93106093 | SL | DRO,8100 (ADEC MOD) | Diesel | 24 | 10 | mg/kg | |
| 93106094 | SL | DRO,8100 (ADEC MOD) | Diesel | 34 | 10 | mg/kg | |
| 93106095 | SL | DRO,8100 (ADEC MOD) | Diesel | 22 | 10 | mg/kg | |
| 93106096 | SL | DRO,8100 (ADEC MOD) | Diesel | 16 | 10 | mg/kg | |
| 93106097 | SL | DRO,8100 (ADEC MOD) | Diesel | 67 | 30 | mg/kg | |
| 93106098 | SL | DRO,8100 (ADEC MOD) | Diesel | 10 | 10 | mg/kg | |
| 93106099 | SL | DRO,8100 (ADEC MOD) | Diesel | ND | 10 | mg/kg | |
| 93106102 | SL | DRO,8100 (ADEC MOD) | Diesel | 11 | 10 | mg/kg | |
| 93106105 | SL | DRO,8100 (ADEC MOD) | Diesel | ND | 10 | mg/kg | |
| 93106106 | SL | DRO,8100 (ADEC MOD) | Diesel | 210 | 30 | mg/kg | |
| 93106107 | SL | DRO,8100 (ADEC MOD) | Diesel | 47 | 4.8 | mg/kg | |
| 93106108 | SL | DRO,8100 (ADEC MOD) | Diesel | 26 | 10 | mg/kg | |
| 93106110 | SL | DRO,8100 (ADEC MOD) | Diesel | 22 | 10 | mg/kg | |
| 93106111 | SL | DRO,8100 (ADEC MOD) | Diesel | ND | 10 | mg/kg | |
| 93106112 | SL | DRO,8100 (ADEC MOD) | Diesel | 1320 | 10 | mg/kg | |
| 93106113 | SL | DRO,8100 (ADEC MOD) | Diesel | ND | 10 | mg/kg | |
| 93106114 | SL | DRO,8100 (ADEC MOD) | Diesel | 130 | 30 | mg/kg | |
| 93106115 | SL | DRO,8100 (ADEC MOD) | Diesel | 30 | 10 | mg/kg | |
| 93106116 | SL | DRO,8100 (ADEC MOD) | Diesel | ND | 10 | mg/kg | |
| 93106117 | SL | DRO,8100 (ADEC MOD) | Diesel | ND | 10 | mg/kg | |
| 93106119 | SL | DRO,8100 (ADEC MOD) | Diesel | ND | 10 | mg/kg | |
| 93106001 | SL | TPH, EPA 418.1 | Tot Recov.Petrol. Hydrocarbons | 900 | 11 | mg/kg | |
| 93106002 | SL | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | 460 | 100 | mg/kg | |
| 93106004 | SL | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | ND | 10 | mg/kg | |
| 93106005 | SL | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | 17 | 10 | mg/kg | |
| 93106006 | SL | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | 11 | 10 | mg/kg | |
| 93106006 | SR | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | 170 | 100 | mg/kg | |
| 93106029 | SL | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | ND | 10 | mg/kg | |
| 93106007 | SL | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | 240 | 100 | mg/kg | |
| 93106007 | SR | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | 420 | 100 | mg/kg | |
| 93106008 | SL | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | 127 | 20 | mg/kg | |
| 93106008 | SR | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | 390 | 100 | mg/kg | |
| 93106009 | SL | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | 430 | 100 | mg/kg | |
| 93106009 | SR | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | 730 | 250 | mg/kg | |
| 93106013 | SL | TPH, EPA 418.1 | Tot Recov.Petrol. Hydrocarbons | 1200 | 250 | mg/kg | |
| 93106013 | SR | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | 860 | 100 | mg/kg | |
| 93106030 | SL | TPH, EPA 418.1 | Tot Recov.Petrol. Hydrocarbons | 14 | 10 | mg/kg | |
| 93106020 | SR | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | ND | 0.2 | mg/l | RB |
| 93106017 | SL | TPH, EPA 418.1 | Tot Recov.Petrol. Hydrocarbons | ND | 10 | mg/kg | |
| 93106018 | SL | TPH, EPA 418.1 | Tot Recov.Petrol. Hydrocarbons | 280 | 11 | mg/kg | |
| 93106019 | SL | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | 230 | 100 | mg/kg | |
| 93106023 | SL | TPH, EPA 418.1 | Tot Recov.Petrol. Hydrocarbons | 174 | 10 | mg/kg | |
| 93106024 | SR | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | ND | 10 | mg/kg | |
| 93106025 | SL | TPH, EPA 418.1 | Tot Recov.Petrol. Hydrocarbons | 115 | 10 | mg/kg | |
| 93106026 | SL | TPH, EPA 418.1 | Tot Recov.Petrol. Hydrocarbons | ND | 10 | mg/kg | |
| 93106027 | SL | TPH, EPA 418.1 | Tot Recov.Petrol. Hydrocarbons | ND | 10 | mg/kg | |
| 93106031 | SL | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | 300 | 100 | mg/kg | |
| 93106032 | SL | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | 111 | 10 | mg/kg | |
| 93106033 | SL | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | 15 | 10 | mg/kg | |
| 93106034 | SL | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | 480 | 100 | mg/kg | |
| 93106034 | SR | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | 2900 | 250 | mg/kg | |
| 93106035 | SL | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | 34 | 10 | mg/kg | |
| 93106036 | SL | TPH, EPA 418.1 | Tot Recov.Petrol. Hydrocarbons | 167 | 10 | mg/kg | |
| 93106037 | SL | TPH, EPA 418.1 | Tot Recov.Petrol. Hydrocarbons | 37 | 10 | mg/kg | |
| 93106038 | SL | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | 14 | 10 | mg/kg | |
| 93106039 | SL | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | 300 | 100 | mg/kg | |
| 93106040 | SL | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | 370 | 100 | mg/kg | |
| 93106041 | SL | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | 44 | 10 | mg/kg | |
| 93106042 | SL | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | ND | 10 | mg/kg | |
| 93106043 | SL | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | 14 | 10 | mg/kg | |
| 93106053 | SL | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | ND | 10 | mg/kg | |
| 93106054 | SL | TPH, EPA 418.1 | Tot Recov.Petrol. Hydrocarbons | 169 | 10 | mg/kg | |
| 93106055 | SL | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | 20 | 10 | mg/kg | |
| 93106056 | SL | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | 5100 | 10 | mg/kg | |
| 93106056 | SR | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | 6300 | 500 | mg/kg | |
| 93106057 | SL | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | 16 | 500 | mg/kg | |
| 93106058 | SL | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | 690 | 10 | mg/kg | |
| 93106059 | SL | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | 71 | 250 | mg/kg | |

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|---|---|---|---|---|---|---|---|
| 93106060 | SL | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | 17 | 10 | mg/kg | |
| 93106061 | SL | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | 149 | 10 | mg/kg | |
| 93106062 | SL | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | 55 | 10 | mg/kg | |
| 93106063 | SL | TPH, EPA 418.1 | Tot Recov.Petrol. Hydrocarbons | 920 | 10 | mg/kg | |
| 93106064 | SL | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | 500 | 10 | mg/kg | |
| 93106065 | SL | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | 340 | 250 | mg/kg | |
| 93106066 | SL | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | 190 | 100 | mg/kg | |
| 93106067 | SL | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | 84 | 100 | mg/kg | |
| 93106068 | SL | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | 380 | 10 | mg/kg | |
| 93106069 | SL | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | ND | 100 | mg/kg | |
| 93106070 | SL | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | 230 | 10 | mg/kg | |
| 93106071 | SL | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | ND | 100 | mg/kg | |
| 93106072 | SL | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | 27 | 10 | mg/kg | |
| 93106076 | SL | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | 23 | 10 | mg/kg | |
| 93106080 | SL | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | ND | 10 | mg/kg | |
| 93106081 | SL | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | 134 | 10 | mg/kg | |
| 93106082 | SL | TPH, EPA 418.1 | Tot Recov.Petrol. Hydrocarbons | 40 | 12 | mg/kg | |
| 93106083 | SL | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | ND | 10 | mg/kg | |
| 93106084 | SL | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | 12 | 10 | mg/kg | |
| 93106085 | SL | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | ND | 10 | mg/kg | |
| 93106086 | SL | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | ND | 10 | mg/kg | |
| 93106087 | SL | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | ND | 10 | mg/kg | |
| 93106088 | SL | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | ND | 10 | mg/kg | |
| 93106089 | SL | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | ND | 20 | mg/kg | |
| 93106090 | SL | TPH, EPA 418.1 | Tot Recov.Petrol. Hydrocarbons | 230 | 11 | mg/kg | |
| 93106091 | SL | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | 620 | 100 | mg/kg | |
| 93106092 | SL | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | 120 | 10 | mg/kg | |
| 93106093 | SL | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | 26 | 10 | mg/kg | |
| 93106094 | SL | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | 30 | 10 | mg/kg | |
| 93106095 | SL | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | 18 | 10 | mg/kg | |
| 93106096 | SL | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | ND | 10 | mg/kg | |
| 93106097 | SL | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | 78 | 10 | mg/kg | |
| 93106098 | SL | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | 19 | 10 | mg/kg | |
| 93106099 | SL | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | ND | 10 | mg/kg | |
| 93106102 | SL | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | 10 | 10 | mg/kg | |
| 93106105 | SL | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | ND | 10 | mg/kg | |
| 93106106 | SL | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | 620 | 250 | mg/kg | |
| 93106107 | SL | TPH, EPA 418.1 | Tot Recov.Petrol. Hydrocarbons | 240 | 12 | mg/kg | |
| 93106108 | SL | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | 53 | 10 | mg/kg | |
| 93106110 | SL | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | 450 | 100 | mg/kg | |
| 93106111 | SL | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | ND | 10 | mg/kg | |
| 93106112 | SL | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | 2900 | 250 | mg/kg | |
| 93106113 | SL | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | ND | 10 | mg/kg | |
| 93106114 | SL | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | 200 | 100 | mg/kg | |
| 93106115 | SL | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | 49 | 10 | mg/kg | |
| 93106116 | SL | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | ND | 10 | mg/kg | |
| 93106117 | SL | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | 12 | 10 | mg/kg | |
| 93106119 | SL | TPH, EPA 418.1 | Total Petroleum Hydrocarbons | ND | 10 | mg/kg | |
| 93106001 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 5.5 | ug/kg | |
| 93106001 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 5.5 | ug/kg | |
| 93106001 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 5.5 | ug/kg | |
| 93106001 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 5.5 | ug/kg | |
| 93106001 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 5.5 | ug/kg | |
| 93106001 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 5.5 | ug/kg | |
| 93106001 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 5.5 | ug/kg | |
| 93106001 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 5.5 | ug/kg | |
| 93106001 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 5.5 | ug/kg | |
| 93106001 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 5.5 | ug/kg | |
| 93106001 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 11 | ug/kg | |
| 93106001 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 11 | ug/kg | |
| 93106001 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 11 | ug/kg | |
| 93106001 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 11 | ug/kg | |
| 93106001 | SR | VOA, EPA 8240 | ACETONE | ND | 5.5 | ug/kg | |
| 93106001 | SR | VOA, EPA 8240 | BENZENE | ND | 5.5 | ug/kg | |
| 93106001 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 5.5 | ug/kg | |
| 93106001 | SR | VOA, EPA 8240 | BROMOFORM | ND | 5.5 | ug/kg | |
| 93106001 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 5.5 | ug/kg | |
| 93106001 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 5.5 | ug/kg | |
| 93106001 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 5.5 | ug/kg | |
| 93106001 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 5.5 | ug/kg | |
| 93106001 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 5.5 | ug/kg | |
| 93106001 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 5.5 | ug/kg | |
| 93106001 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 5.5 | ug/kg | |
| 93106001 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 5.5 | ug/kg | |

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|---|---|---|---|---|---|---|---|
| 93106001 | SR | VOA, EPA 8240 | DIBROMOCHLOROMETHANE | ND | 5.5 | ug/kg | |
| 93106001 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 5.5 | ug/kg | |
| 93106001 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | ND | 5.5 | ug/kg | |
| 93106001 | SR | VOA, EPA 8240 | STYRENE | ND | 5.5 | ug/kg | |
| 93106001 | SR | VOA, EPA 8240 | TETRACHLOROETHENE | ND | 5.5 | ug/kg | |
| 93106001 | SR | VOA, EPA 8240 | TOLUENE | ND | 5.5 | ug/kg | |
| 93106001 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 5.5 | ug/kg | |
| 93106001 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 5.5 | ug/kg | |
| 93106001 | SR | VOA, EPA 8240 | TRICHLOROETHENE | ND | 5.5 | ug/kg | |
| 93106001 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE | ND | 5.5 | ug/kg | |
| 93106001 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 11 | ug/kg | |
| 93106001 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 5.5 | ug/kg | |
| 93106001 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 5.5 | ug/kg | |
| 93106002 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 5.7 | ug/kg | |
| 93106002 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 5.7 | ug/kg | |
| 93106002 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 5.7 | ug/kg | |
| 93106002 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 5.7 | ug/kg | |
| 93106002 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 5.7 | ug/kg | |
| 93106002 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 5.7 | ug/kg | |
| 93106002 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 5.7 | ug/kg | |
| 93106002 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 5.7 | ug/kg | |
| 93106002 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 5.7 | ug/kg | |
| 93106002 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 5.7 | ug/kg | |
| 93106002 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 11 | ug/kg | |
| 93106002 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 11 | ug/kg | |
| 93106002 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 11 | ug/kg | |
| 93106002 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 11 | ug/kg | |
| 93106002 | SR | VOA, EPA 8240 | ACETONE | ND | 5.7 | ug/kg | |
| 93106002 | SR | VOA, EPA 8240 | BENZENE | ND | 5.7 | ug/kg | |
| 93106002 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 5.7 | ug/kg | |
| 93106002 | SR | VOA, EPA 8240 | BROMOFORM | ND | 5.7 | ug/kg | |
| 93106002 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 5.7 | ug/kg | |
| 93106002 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 5.7 | ug/kg | |
| 93106002 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 5.7 | ug/kg | |
| 93106002 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 5.7 | ug/kg | |
| 93106002 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 5.7 | ug/kg | |
| 93106002 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 5.7 | ug/kg | |
| 93106002 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 5.7 | ug/kg | |
| 93106002 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 5.7 | ug/kg | |
| 93106002 | SR | VOA, EPA 8240 | DIBROMOCHLOROMETHANE | ND | 5.7 | ug/kg | |
| 93106002 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 5.7 | ug/kg | |
| 93106002 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | ND | 5.7 | ug/kg | |
| 93106002 | SR | VOA, EPA 8240 | STYRENE | ND | 5.7 | ug/kg | |
| 93106002 | SR | VOA, EPA 8240 | TETRACHLOROETHENE | ND | 5.7 | ug/kg | |
| 93106002 | SR | VOA, EPA 8240 | TOLUENE | ND | 5.7 | ug/kg | |
| 93106002 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 5.7 | ug/kg | |
| 93106002 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 5.7 | ug/kg | |
| 93106002 | SR | VOA, EPA 8240 | TRICHLOROETHENE | ND | 5.7 | ug/kg | |
| 93106002 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE | ND | 5.7 | ug/kg | |
| 93106002 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 11 | ug/kg | |
| 93106002 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 5.7 | ug/kg | |
| 93106002 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 5.7 | ug/kg | |
| 93106003 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 5.9 | ug/kg | |
| 93106003 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 5.9 | ug/kg | |
| 93106003 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 5.9 | ug/kg | |
| 93106003 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 5.9 | ug/kg | |
| 93106003 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 5.9 | ug/kg | |
| 93106003 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 5.9 | ug/kg | |
| 93106003 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 5.9 | ug/kg | |
| 93106003 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 5.9 | ug/kg | |
| 93106003 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 5.9 | ug/kg | |
| 93106003 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 5.9 | ug/kg | |
| 93106003 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 12 | ug/kg | |
| 93106003 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 12 | ug/kg | |
| 93106003 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 12 | ug/kg | |
| 93106003 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 12 | ug/kg | |
| 93106003 | SR | VOA, EPA 8240 | ACETONE | ND | 5.9 | ug/kg | |
| 93106003 | SR | VOA, EPA 8240 | BENZENE | ND | 5.9 | ug/kg | |
| 93106003 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 5.9 | ug/kg | |
| 93106003 | SR | VOA, EPA 8240 | BROMOFORM | ND | 5.9 | ug/kg | |
| 93106003 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 5.9 | ug/kg | |
| 93106003 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 5.9 | ug/kg | |
| 93106003 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 5.9 | ug/kg | |
| 93106003 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 5.9 | ug/kg | |

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|---|---|---|---|---|---|---|---|
| 93106003 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 5.9 | ug/kg | |
| 93106003 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 5.9 | ug/kg | |
| 93106003 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 5.9 | ug/kg | |
| 93106003 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 5.9 | ug/kg | |
| 93106003 | SR | VOA, EPA 8240 | DIBROMOCHLOROMETHANE | ND | 5.9 | ug/kg | |
| 93106003 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 5.9 | ug/kg | |
| 93106003 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | ND | 5.9 | ug/kg | |
| 93106003 | SR | VOA, EPA 8240 | STYRENE | ND | 5.9 | ug/kg | |
| 93106003 | SR | VOA, EPA 8240 | TETRACHLOROETHENE | ND | 5.9 | ug/kg | |
| 93106003 | SR | VOA, EPA 8240 | TOLUENE | ND | 5.9 | ug/kg | |
| 93106003 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 5.9 | ug/kg | |
| 93106003 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 5.9 | ug/kg | |
| 93106003 | SR | VOA, EPA 8240 | TRICHLOROETHENE | ND | 5.9 | ug/kg | |
| 93106003 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE | ND | 5.9 | ug/kg | |
| 93106003 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 12 | ug/kg | |
| 93106003 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 5.9 | ug/kg | |
| 93106003 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 5.9 | ug/kg | |
| 93106004 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 5.8 | ug/kg | |
| 93106004 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 5.8 | ug/kg | |
| 93106004 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 5.8 | ug/kg | |
| 93106004 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 5.8 | ug/kg | |
| 93106004 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 5.8 | ug/kg | |
| 93106004 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 5.8 | ug/kg | |
| 93106004 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 5.8 | ug/kg | |
| 93106004 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 5.8 | ug/kg | |
| 93106004 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 5.8 | ug/kg | |
| 93106004 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 5.8 | ug/kg | |
| 93106004 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 12 | ug/kg | |
| 93106004 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 12 | ug/kg | |
| 93106004 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 12 | ug/kg | |
| 93106004 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 12 | ug/kg | |
| 93106004 | SR | VOA, EPA 8240 | ACETONE | ND | 5.8 | ug/kg | |
| 93106004 | SR | VOA, EPA 8240 | BENZENE | ND | 5.8 | ug/kg | |
| 93106004 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 5.8 | ug/kg | |
| 93106004 | SR | VOA, EPA 8240 | BROMOFORM | ND | 5.8 | ug/kg | |
| 93106004 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 5.8 | ug/kg | |
| 93106004 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 5.8 | ug/kg | |
| 93106004 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 5.8 | ug/kg | |
| 93106004 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 5.8 | ug/kg | |
| 93106004 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 5.8 | ug/kg | |
| 93106004 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 5.8 | ug/kg | |
| 93106004 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 5.8 | ug/kg | |
| 93106004 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 5.8 | ug/kg | |
| 93106004 | SR | VOA, EPA 8240 | DIBROMOCHLOROMETHANE | ND | 5.8 | ug/kg | |
| 93106004 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 5.8 | ug/kg | |
| 93106004 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | 6.2 B | 5.8 | ug/kg | ?B? |
| 93106004 | SR | VOA, EPA 8240 | STYRENE | ND | 5.8 | ug/kg | |
| 93106004 | SR | VOA, EPA 8240 | TETRACHLOROETHENE | ND | 5.8 | ug/kg | |
| 93106004 | SR | VOA, EPA 8240 | TOLUENE | ND | 5.8 | ug/kg | |
| 93106004 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 5.8 | ug/kg | |
| 93106004 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 5.8 | ug/kg | |
| 93106004 | SR | VOA, EPA 8240 | TRICHLOROETHENE | ND | 5.8 | ug/kg | |
| 93106004 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE | ND | 5.8 | ug/kg | |
| 93106004 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 12 | ug/kg | |
| 93106004 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 5.8 | ug/kg | |
| 93106004 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 5.8 | ug/kg | |
| 93106005 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 6.4 | ug/kg | |
| 93106005 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 6.4 | ug/kg | |
| 93106005 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 6.4 | ug/kg | |
| 93106005 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 6.4 | ug/kg | |
| 93106005 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 6.4 | ug/kg | |
| 93106005 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 6.4 | ug/kg | |
| 93106005 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 6.4 | ug/kg | |
| 93106005 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 6.4 | ug/kg | |
| 93106005 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 6.4 | ug/kg | |
| 93106005 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 6.4 | ug/kg | |
| 93106005 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 13 | ug/kg | |
| 93106005 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 13 | ug/kg | |
| 93106005 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 13 | ug/kg | |
| 93106005 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 13 | ug/kg | |
| 93106005 | SR | VOA, EPA 8240 | ACETONE | ND | 6.4 | ug/kg | |
| 93106005 | SR | VOA, EPA 8240 | BENZENE | ND | 6.4 | ug/kg | |
| 93106005 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 6.4 | ug/kg | |
| 93106005 | SR | VOA, EPA 8240 | BROMOFORM | ND | 6.4 | ug/kg | |

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|---|---|---|---|---|---|---|---|
| 93106005 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 6.4 | ug/kg | |
| 93106005 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 6.4 | ug/kg | |
| 93106005 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 6.4 | ug/kg | |
| 93106005 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 6.4 | ug/kg | |
| 93106005 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 6.4 | ug/kg | |
| 93106005 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 6.4 | ug/kg | |
| 93106005 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 6.4 | ug/kg | |
| 93106005 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 6.4 | ug/kg | |
| 93106005 | SR | VOA, EPA 8240 | DIBROMOCHLOROMETHANE | ND | 6.4 | ug/kg | |
| 93106005 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 6.4 | ug/kg | |
| 93106005 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | ND | 6.4 | ug/kg | |
| 93106005 | SR | VOA, EPA 8240 | STYRENE | ND | 6.4 | ug/kg | |
| 93106005 | SR | VOA, EPA 8240 | TETRACHLOROETHENE | ND | 6.4 | ug/kg | |
| 93106005 | SR | VOA, EPA 8240 | TOLUENE | ND | 6.4 | ug/kg | |
| 93106005 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 6.4 | ug/kg | |
| 93106005 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 6.4 | ug/kg | |
| 93106005 | SR | VOA, EPA 8240 | TRICHLOROETHENE | 27 | 6.4 | ug/kg | |
| 93106005 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE | ND | 6.4 | ug/kg | |
| 93106005 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 13 | ug/kg | |
| 93106005 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 6.4 | ug/kg | |
| 93106005 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 6.4 | ug/kg | |
| 93106006 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 25 | ug/kg | |
| 93106006 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 25 | ug/kg | |
| 93106006 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 25 | ug/kg | |
| 93106006 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 25 | ug/kg | |
| 93106006 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 25 | ug/kg | |
| 93106006 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 25 | ug/kg | |
| 93106006 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 25 | ug/kg | |
| 93106006 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 25 | ug/kg | |
| 93106006 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 25 | ug/kg | |
| 93106006 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 25 | ug/kg | |
| 93106006 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 500 | ug/kg | |
| 93106006 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 50 | ug/kg | |
| 93106006 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 250 | ug/kg | |
| 93106006 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 250 | ug/kg | |
| 93106006 | SR | VOA, EPA 8240 | ACETONE | ND | 500 | ug/kg | |
| 93106006 | SR | VOA, EPA 8240 | BENZENE | ND | 25 | ug/kg | |
| 93106006 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 25 | ug/kg | |
| 93106006 | SR | VOA, EPA 8240 | BROMOFORM | ND | 25 | ug/kg | |
| 93106006 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 50 | ug/kg | |
| 93106006 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 500 | ug/kg | |
| 93106006 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 25 | ug/kg | |
| 93106006 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 25 | ug/kg | |
| 93106006 | SR | VOA, EPA 8240 | CHLORODIBROMOMETHANE | ND | 25 | ug/kg | |
| 93106006 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 50 | ug/kg | |
| 93106006 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 25 | ug/kg | |
| 93106006 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 50 | ug/kg | |
| 93106006 | SR | VOA, EPA 8240 | CIS-1,2-DICHLOROETHYLENE | ND | 25 | ug/kg | |
| 93106006 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 25 | ug/kg | |
| 93106006 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 25 | ug/kg | |
| 93106006 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | ND | 25 | ug/kg | |
| 93106006 | SR | VOA, EPA 8240 | STYRENE | ND | 25 | ug/kg | |
| 93106006 | SR | VOA, EPA 8240 | TETRACHLOROETHENE | ND | 25 | ug/kg | |
| 93106006 | SR | VOA, EPA 8240 | TOLUENE | ND | 25 | ug/kg | |
| 93106006 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 25 | ug/kg | |
| 93106006 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 25 | ug/kg | |
| 93106006 | SR | VOA, EPA 8240 | TRICHLOROETHENE | ND | 50 | ug/kg | |
| 93106006 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE | ND | 50 | ug/kg | |
| 93106006 | SR | VOA, EPA 8240 | TRICHLOROTRIFLUOROETHANE(FREON113) | ND | 250 | ug/kg | |
| 93106006 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 50 | ug/kg | |
| 93106006 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 25 | ug/kg | |
| 93106006 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 25 | ug/kg | |
| 93106013 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 25 | ug/kg | |
| 93106013 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 25 | ug/kg | |
| 93106013 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 25 | ug/kg | |
| 93106013 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 25 | ug/kg | |
| 93106013 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 25 | ug/kg | |
| 93106013 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 25 | ug/kg | |
| 93106013 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 25 | ug/kg | |
| 93106013 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 25 | ug/kg | |
| 93106013 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 25 | ug/kg | |
| 93106013 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 25 | ug/kg | |
| 93106013 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 500 | ug/kg | |
| 93106013 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 50 | ug/kg | |

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|---|---|---|---|---|---|---|---|
| 93106013 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 250 | ug/kg | |
| 93106013 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 250 | ug/kg | |
| 93106013 | SR | VOA, EPA 8240 | ACETONE | ND | 500 | ug/kg | |
| 93106013 | SR | VOA, EPA 8240 | BENZENE | ND | 25 | ug/kg | |
| 93106013 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 25 | ug/kg | |
| 93106013 | SR | VOA, EPA 8240 | BROMOFORM | ND | 25 | ug/kg | |
| 93106013 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 50 | ug/kg | |
| 93106013 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 500 | ug/kg | |
| 93106013 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 25 | ug/kg | |
| 93106013 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 25 | ug/kg | |
| 93106013 | SR | VOA, EPA 8240 | CHLORODIBROMOMETHANE | ND | 25 | ug/kg | |
| 93106013 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 50 | ug/kg | |
| 93106013 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 25 | ug/kg | |
| 93106013 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 50 | ug/kg | |
| 93106013 | SR | VOA, EPA 8240 | CIS-1,2-DICHLOROETHYLENE | ND | 25 | ug/kg | |
| 93106013 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 25 | ug/kg | |
| 93106013 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 25 | ug/kg | |
| 93106013 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | ND | 25 | ug/kg | |
| 93106013 | SR | VOA, EPA 8240 | STYRENE | ND | 25 | ug/kg | |
| 93106013 | SR | VOA, EPA 8240 | TETRACHLOROETHENE | ND | 25 | ug/kg | |
| 93106013 | SR | VOA, EPA 8240 | TOLUENE | ND | 25 | ug/kg | |
| 93106013 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 25 | ug/kg | |
| 93106013 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 25 | ug/kg | |
| 93106013 | SR | VOA, EPA 8240 | TRICHLOROETHENE | ND | 25 | ug/kg | |
| 93106013 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE | ND | 50 | ug/kg | |
| 93106013 | SR | VOA, EPA 8240 | TRICHLOROTRIFLUOROETHANE(FREON113) | ND | 50 | ug/kg | |
| 93106013 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 250 | ug/kg | |
| 93106013 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 50 | ug/kg | |
| 93106013 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 25 | ug/kg | |
| 93106020 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106020 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 5 | ug/kg | |
| 93106020 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106020 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106020 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106020 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106020 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106020 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 5 | ug/kg | |
| 93106020 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106020 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106020 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 100 | ug/kg | |
| 93106020 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 10 | ug/kg | |
| 93106020 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 50 | ug/kg | |
| 93106020 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 50 | ug/kg | |
| 93106020 | SR | VOA, EPA 8240 | ACETONE | ND | 100 | ug/kg | |
| 93106020 | SR | VOA, EPA 8240 | BENZENE | ND | 5 | ug/kg | |
| 93106020 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 5 | ug/kg | |
| 93106020 | SR | VOA, EPA 8240 | BROMOFORM | ND | 5 | ug/kg | |
| 93106020 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 10 | ug/kg | |
| 93106020 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 100 | ug/kg | |
| 93106020 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 5 | ug/kg | |
| 93106020 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 5 | ug/kg | |
| 93106020 | SR | VOA, EPA 8240 | CHLORODIBROMOMETHANE | ND | 5 | ug/kg | |
| 93106020 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 10 | ug/kg | |
| 93106020 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 5 | ug/kg | |
| 93106020 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 10 | ug/kg | |
| 93106020 | SR | VOA, EPA 8240 | CIS-1,2-DICHLOROETHYLENE | ND | 5 | ug/kg | |
| 93106020 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106020 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 5 | ug/kg | |
| 93106020 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | ND | 5 | ug/kg | |
| 93106020 | SR | VOA, EPA 8240 | STYRENE | ND | 5 | ug/kg | |
| 93106020 | SR | VOA, EPA 8240 | TETRACHLOROETHENE | ND | 5 | ug/kg | |
| 93106020 | SR | VOA, EPA 8240 | TOLUENE | ND | 5 | ug/kg | |
| 93106020 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106020 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106020 | SR | VOA, EPA 8240 | TRICHLOROETHENE | ND | 5 | ug/kg | |
| 93106020 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE | ND | 10 | ug/kg | |
| 93106020 | SR | VOA, EPA 8240 | TRICHLOROTRIFLUOROETHANE(FREON113) | ND | 10 | ug/kg | |
| 93106020 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 50 | ug/kg | |
| 93106020 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 10 | ug/kg | |
| 93106020 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 5 | ug/kg | |
| 93106017 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106017 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 5 | ug/kg | |
| 93106017 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106017 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 5 | ug/kg | |

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|---|---|---|---|---|---|---|---|
| 93106017 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106017 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106017 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106017 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 5 | ug/kg | |
| 93106017 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106017 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106017 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 100 | ug/kg | |
| 93106017 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 10 | ug/kg | |
| 93106017 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 50 | ug/kg | |
| 93106017 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 50 | ug/kg | |
| 93106017 | SR | VOA, EPA 8240 | ACETONE | ND | 100 | ug/kg | |
| 93106017 | SR | VOA, EPA 8240 | BENZENE | ND | 5 | ug/kg | |
| 93106017 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 5 | ug/kg | |
| 93106017 | SR | VOA, EPA 8240 | BROMOFORM | ND | 5 | ug/kg | |
| 93106017 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 10 | ug/kg | |
| 93106017 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 100 | ug/kg | |
| 93106017 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 5 | ug/kg | |
| 93106017 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 5 | ug/kg | |
| 93106017 | SR | VOA, EPA 8240 | CHLORODIBROMOMETHANE | ND | 5 | ug/kg | |
| 93106017 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 10 | ug/kg | |
| 93106017 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 5 | ug/kg | |
| 93106017 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 10 | ug/kg | |
| 93106017 | SR | VOA, EPA 8240 | CIS-1,2-DICHLOROETHYLENE | ND | 5 | ug/kg | |
| 93106017 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106017 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 5 | ug/kg | |
| 93106017 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | ND | 5 | ug/kg | |
| 93106017 | SR | VOA, EPA 8240 | STYRENE | ND | 5 | ug/kg | |
| 93106017 | SR | VOA, EPA 8240 | TETRACHLOROETHENE | ND | 5 | ug/kg | |
| 93106017 | SR | VOA, EPA 8240 | TOLUENE | ND | 5 | ug/kg | |
| 93106017 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106017 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106017 | SR | VOA, EPA 8240 | TRICHLOROETHENE | ND | 5 | ug/kg | |
| 93106017 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE | ND | 10 | ug/kg | |
| 93106017 | SR | VOA, EPA 8240 | TRICHLOROTRIFLUOROETHANE(FREON113) | ND | 10 | ug/kg | |
| 93106017 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 50 | ug/kg | |
| 93106017 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 10 | ug/kg | |
| 93106017 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 5 | ug/kg | |
| 93106018 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106018 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 5 | ug/kg | |
| 93106018 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | 20 | 5 | ug/kg | |
| 93106018 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106018 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106018 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106018 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106018 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 5 | ug/kg | |
| 93106018 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106018 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106018 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 100 | ug/kg | |
| 93106018 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 10 | ug/kg | |
| 93106018 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 50 | ug/kg | |
| 93106018 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 50 | ug/kg | |
| 93106018 | SR | VOA, EPA 8240 | ACETONE | ND | 100 | ug/kg | |
| 93106018 | SR | VOA, EPA 8240 | BENZENE | ND | 5 | ug/kg | |
| 93106018 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 5 | ug/kg | |
| 93106018 | SR | VOA, EPA 8240 | BROMOFORM | ND | 5 | ug/kg | |
| 93106018 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 10 | ug/kg | |
| 93106018 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 100 | ug/kg | |
| 93106018 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 5 | ug/kg | |
| 93106018 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 5 | ug/kg | |
| 93106018 | SR | VOA, EPA 8240 | CHLORODIBROMOMETHANE | ND | 5 | ug/kg | |
| 93106018 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 10 | ug/kg | |
| 93106018 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 5 | ug/kg | |
| 93106018 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 10 | ug/kg | |
| 93106018 | SR | VOA, EPA 8240 | CIS-1,2-DICHLOROETHYLENE | 27 | 5 | ug/kg | |
| 93106018 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106018 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 5 | ug/kg | |
| 93106018 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | ND | 5 | ug/kg | |
| 93106018 | SR | VOA, EPA 8240 | STYRENE | ND | 5 | ug/kg | |
| 93106018 | SR | VOA, EPA 8240 | TETRACHLOROETHENE | ND | 5 | ug/kg | |
| 93106018 | SR | VOA, EPA 8240 | TOLUENE | ND | 5 | ug/kg | |
| 93106018 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106018 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106018 | SR | VOA, EPA 8240 | TRICHLOROETHENE | 620 D | 5 | ug/kg | ?D? |
| 93106018 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE | ND | 10 | ug/kg | |

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|---|---|---|---|---|---|---|---|
| 93106018 | SR | VOA, EPA 8240 | TRICHLOROTRIFLUOROETHANE(FREON113) | ND | 10 | ug/kg | |
| 93106018 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 50 | ug/kg | |
| 93106018 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 10 | ug/kg | |
| 93106018 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 5 | ug/kg | |
| 93106019 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 6.2 | ug/kg | |
| 93106019 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 6.2 | ug/kg | |
| 93106019 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | 7.9 | 6.2 | ug/kg | |
| 93106019 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 6.2 | ug/kg | |
| 93106019 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 6.2 | ug/kg | |
| 93106019 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 6.2 | ug/kg | |
| 93106019 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 6.2 | ug/kg | |
| 93106019 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 6.2 | ug/kg | |
| 93106019 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 6.2 | ug/kg | |
| 93106019 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 6.2 | ug/kg | |
| 93106019 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 12 | ug/kg | |
| 93106019 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 12 | ug/kg | |
| 93106019 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 12 | ug/kg | |
| 93106019 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 12 | ug/kg | |
| 93106019 | SR | VOA, EPA 8240 | ACETONE | 22 B | 6.2 | ug/kg | ?B? |
| 93106019 | SR | VOA, EPA 8240 | BENZENE | ND | 6.2 | ug/kg | |
| 93106019 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 6.2 | ug/kg | |
| 93106019 | SR | VOA, EPA 8240 | BROMOFORM | ND | 6.2 | ug/kg | |
| 93106019 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 6.2 | ug/kg | |
| 93106019 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 6.2 | ug/kg | |
| 93106019 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 6.2 | ug/kg | |
| 93106019 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 6.2 | ug/kg | |
| 93106019 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 6.2 | ug/kg | |
| 93106019 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 6.2 | ug/kg | |
| 93106019 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 6.2 | ug/kg | |
| 93106019 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 6.2 | ug/kg | |
| 93106019 | SR | VOA, EPA 8240 | DIBROMOCHLOROMETHANE | ND | 6.2 | ug/kg | |
| 93106019 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 6.2 | ug/kg | |
| 93106019 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | 14 B | 6.2 | ug/kg | ?B? |
| 93106019 | SR | VOA, EPA 8240 | STYRENE | ND | 6.2 | ug/kg | |
| 93106019 | SR | VOA, EPA 8240 | TETRACHLOROETHENE | ND | 6.2 | ug/kg | |
| 93106019 | SR | VOA, EPA 8240 | TOLUENE | ND | 6.2 | ug/kg | |
| 93106019 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 6.2 | ug/kg | |
| 93106019 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 6.2 | ug/kg | |
| 93106019 | SR | VOA, EPA 8240 | TRICHLOROETHENE | ND | 6.2 | ug/kg | |
| 93106019 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE | ND | 6.2 | ug/kg | |
| 93106019 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 12 | ug/kg | |
| 93106019 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 6.2 | ug/kg | |
| 93106019 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 6.2 | ug/kg | |
| 93106021 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106021 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 5 | ug/kg | |
| 93106021 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106021 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106021 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106021 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106021 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106021 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 5 | ug/kg | |
| 93106021 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106021 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106021 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 100 | ug/kg | |
| 93106021 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 10 | ug/kg | |
| 93106021 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 50 | ug/kg | |
| 93106021 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 50 | ug/kg | |
| 93106021 | SR | VOA, EPA 8240 | ACETONE | ND | 100 | ug/kg | |
| 93106021 | SR | VOA, EPA 8240 | BENZENE | ND | 5 | ug/kg | |
| 93106021 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 5 | ug/kg | |
| 93106021 | SR | VOA, EPA 8240 | BROMOFORM | ND | 5 | ug/kg | |
| 93106021 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 10 | ug/kg | |
| 93106021 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 100 | ug/kg | |
| 93106021 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 5 | ug/kg | |
| 93106021 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 5 | ug/kg | |
| 93106021 | SR | VOA, EPA 8240 | CHLORODIBROMOMETHANE | ND | 5 | ug/kg | |
| 93106021 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 10 | ug/kg | |
| 93106021 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 5 | ug/kg | |
| 93106021 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 10 | ug/kg | |
| 93106021 | SR | VOA, EPA 8240 | CIS-1,2-DICHLOROETHYLENE | ND | 5 | ug/kg | |
| 93106021 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106021 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 5 | ug/kg | |
| 93106021 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | ND | 5 | ug/kg | |
| 93106021 | SR | VOA, EPA 8240 | STYRENE | ND | 5 | ug/kg | |

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|---|---|---|---|---|---|---|---|
| 93106021 | SR | VOA, EPA 8240 | TETRACHLOROETHENE | ND | 5 | ug/kg | |
| 93106021 | SR | VOA, EPA 8240 | TOLUENE | ND | 5 | ug/kg | |
| 93106021 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106021 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106021 | SR | VOA, EPA 8240 | TRICHLOROETHENE | 34 | 5 | ug/kg | |
| 93106021 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE | ND | 10 | ug/kg | |
| 93106021 | SR | VOA, EPA 8240 | TRICHLOROTRIFLUOROETHANE(FREON113) | ND | 10 | ug/kg | |
| 93106021 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 50 | ug/kg | |
| 93106021 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 10 | ug/kg | |
| 93106021 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 5 | ug/kg | |
| 93106023 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106023 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 5 | ug/kg | |
| 93106023 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | 8 | 5 | ug/kg | |
| 93106023 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106023 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106023 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106023 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106023 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 5 | ug/kg | |
| 93106023 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106023 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106023 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 100 | ug/kg | |
| 93106023 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 10 | ug/kg | |
| 93106023 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 50 | ug/kg | |
| 93106023 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 50 | ug/kg | |
| 93106023 | SR | VOA, EPA 8240 | ACETONE | ND | 100 | ug/kg | |
| 93106023 | SR | VOA, EPA 8240 | BENZENE | ND | 5 | ug/kg | |
| 93106023 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 5 | ug/kg | |
| 93106023 | SR | VOA, EPA 8240 | BROMOFORM | ND | 5 | ug/kg | |
| 93106023 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 10 | ug/kg | |
| 93106023 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 100 | ug/kg | |
| 93106023 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 5 | ug/kg | |
| 93106023 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 5 | ug/kg | |
| 93106023 | SR | VOA, EPA 8240 | CHLORODIBROMOMETHANE | ND | 5 | ug/kg | |
| 93106023 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 10 | ug/kg | |
| 93106023 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 5 | ug/kg | |
| 93106023 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 10 | ug/kg | |
| 93106023 | SR | VOA, EPA 8240 | CIS-1,2-DICHLOROETHYLENE | 6 | 5 | ug/kg | |
| 93106023 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106023 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 5 | ug/kg | |
| 93106023 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | ND | 5 | ug/kg | |
| 93106023 | SR | VOA, EPA 8240 | STYRENE | ND | 5 | ug/kg | |
| 93106023 | SR | VOA, EPA 8240 | TETRACHLOROETHENE | ND | 5 | ug/kg | |
| 93106023 | SR | VOA, EPA 8240 | TOLUENE | ND | 5 | ug/kg | |
| 93106023 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106023 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106023 | SR | VOA, EPA 8240 | TRICHLOROETHENE | 240 | 5 | ug/kg | |
| 93106023 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE | ND | 10 | ug/kg | |
| 93106023 | SR | VOA, EPA 8240 | TRICHLOROTRIFLUOROETHANE(FREON113) | ND | 10 | ug/kg | |
| 93106023 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 50 | ug/kg | |
| 93106023 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 10 | ug/kg | |
| 93106023 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 5 | ug/kg | |
| 93106024 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106024 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 5 | ug/kg | |
| 93106024 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106024 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106024 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106024 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106024 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106024 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 5 | ug/kg | |
| 93106024 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106024 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106024 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 100 | ug/kg | |
| 93106024 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 10 | ug/kg | |
| 93106024 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 50 | ug/kg | |
| 93106024 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 50 | ug/kg | |
| 93106024 | SR | VOA, EPA 8240 | ACETONE | ND | 100 | ug/kg | |
| 93106024 | SR | VOA, EPA 8240 | BENZENE | ND | 5 | ug/kg | |
| 93106024 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 5 | ug/kg | |
| 93106024 | SR | VOA, EPA 8240 | BROMOFORM | ND | 5 | ug/kg | |
| 93106024 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 10 | ug/kg | |
| 93106024 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 100 | ug/kg | |
| 93106024 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 5 | ug/kg | |
| 93106024 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 5 | ug/kg | |
| 93106024 | SR | VOA, EPA 8240 | CHLORODIBROMOMETHANE | ND | 5 | ug/kg | |

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|---|---|---|---|---|---|---|---|
| 93106024 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 10 | ug/kg | |
| 93106024 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 5 | ug/kg | |
| 93106024 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 10 | ug/kg | |
| 93106024 | SR | VOA, EPA 8240 | CIS-1,2-DICHLOROETHYLENE | ND | 5 | ug/kg | |
| 93106024 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106024 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 5 | ug/kg | |
| 93106024 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | ND | 5 | ug/kg | |
| 93106024 | SR | VOA, EPA 8240 | STYRENE | ND | 5 | ug/kg | |
| 93106024 | SR | VOA, EPA 8240 | TETRACHLOROETHENE | ND | 5 | ug/kg | |
| 93106024 | SR | VOA, EPA 8240 | TOLUENE | ND | 5 | ug/kg | |
| 93106024 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106024 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106024 | SR | VOA, EPA 8240 | TRICHLOROETHENE | 13 | 5 | ug/kg | |
| 93106024 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE | ND | 10 | ug/kg | |
| 93106024 | SR | VOA, EPA 8240 | TRICHLOROTRIFLUOROETHANE(FREON113) | ND | 10 | ug/kg | |
| 93106024 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 50 | ug/kg | |
| 93106024 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 10 | ug/kg | |
| 93106024 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 5 | ug/kg | |
| 93106025 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106025 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 5 | ug/kg | |
| 93106025 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106025 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106025 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106025 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106025 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106025 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 5 | ug/kg | |
| 93106025 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106025 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106025 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 100 | ug/kg | |
| 93106025 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 10 | ug/kg | |
| 93106025 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 50 | ug/kg | |
| 93106025 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 50 | ug/kg | |
| 93106025 | SR | VOA, EPA 8240 | ACETONE | ND | 100 | ug/kg | |
| 93106025 | SR | VOA, EPA 8240 | BENZENE | ND | 5 | ug/kg | |
| 93106025 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 5 | ug/kg | |
| 93106025 | SR | VOA, EPA 8240 | BROMOFORM | ND | 5 | ug/kg | |
| 93106025 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 10 | ug/kg | |
| 93106025 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 100 | ug/kg | |
| 93106025 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 5 | ug/kg | |
| 93106025 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 5 | ug/kg | |
| 93106025 | SR | VOA, EPA 8240 | CHLORODIBROMOMETHANE | ND | 5 | ug/kg | |
| 93106025 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 10 | ug/kg | |
| 93106025 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 5 | ug/kg | |
| 93106025 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 10 | ug/kg | |
| 93106025 | SR | VOA, EPA 8240 | CIS-1,2-DICHLOROETHYLENE | ND | 5 | ug/kg | |
| 93106025 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106025 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 5 | ug/kg | |
| 93106025 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | ND | 5 | ug/kg | |
| 93106025 | SR | VOA, EPA 8240 | STYRENE | ND | 5 | ug/kg | |
| 93106025 | SR | VOA, EPA 8240 | TETRACHLOROETHENE | ND | 5 | ug/kg | |
| 93106025 | SR | VOA, EPA 8240 | TOLUENE | ND | 5 | ug/kg | |
| 93106025 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106025 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106025 | SR | VOA, EPA 8240 | TRICHLOROETHENE | 23 | 5 | ug/kg | |
| 93106025 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE | ND | 10 | ug/kg | |
| 93106025 | SR | VOA, EPA 8240 | TRICHLOROTRIFLUOROETHANE(FREON113) | ND | 10 | ug/kg | |
| 93106025 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 50 | ug/kg | |
| 93106025 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 10 | ug/kg | |
| 93106025 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 5 | ug/kg | |
| 93106026 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106026 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 5 | ug/kg | |
| 93106026 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106026 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106026 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106026 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106026 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106026 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 5 | ug/kg | |
| 93106026 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106026 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106026 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 100 | ug/kg | |
| 93106026 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 10 | ug/kg | |
| 93106026 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 50 | ug/kg | |
| 93106026 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 50 | ug/kg | |
| 93106026 | SR | VOA, EPA 8240 | ACETONE | ND | 100 | ug/kg | |

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|---|---|---|---|---|---|---|---|
| 93106026 | SR | VOA, EPA 8240 | BENZENE | ND | 5 | ug/kg | |
| 93106026 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 5 | ug/kg | |
| 93106026 | SR | VOA, EPA 8240 | BROMOFORM | ND | 5 | ug/kg | |
| 93106026 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 10 | ug/kg | |
| 93106026 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 100 | ug/kg | |
| 93106026 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 5 | ug/kg | |
| 93106026 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 5 | ug/kg | |
| 93106026 | SR | VOA, EPA 8240 | CHLORODIBROMOMETHANE | ND | 5 | ug/kg | |
| 93106026 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 10 | ug/kg | |
| 93106026 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 5 | ug/kg | |
| 93106026 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 10 | ug/kg | |
| 93106026 | SR | VOA, EPA 8240 | CIS-1,2-DICHLOROETHYLENE | ND | 5 | ug/kg | |
| 93106026 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106026 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 5 | ug/kg | |
| 93106026 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | ND | 5 | ug/kg | |
| 93106026 | SR | VOA, EPA 8240 | STYRENE | ND | 5 | ug/kg | |
| 93106026 | SR | VOA, EPA 8240 | TETRACHLOROETHENE | ND | 5 | ug/kg | |
| 93106026 | SR | VOA, EPA 8240 | TOLUENE | ND | 5 | ug/kg | |
| 93106026 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106026 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106026 | SR | VOA, EPA 8240 | TRICHLOROETHENE | 150 | 5 | ug/kg | |
| 93106026 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE | ND | 10 | ug/kg | |
| 93106026 | SR | VOA, EPA 8240 | TRICHLOROTRIFLUOROETHANE(FREON113) | ND | 10 | ug/kg | |
| 93106026 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 50 | ug/kg | |
| 93106026 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 10 | ug/kg | |
| 93106026 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 5 | ug/kg | |
| 93106027 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106027 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 5 | ug/kg | |
| 93106027 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106027 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106027 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106027 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106027 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106027 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 5 | ug/kg | |
| 93106027 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106027 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106027 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 100 | ug/kg | |
| 93106027 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 10 | ug/kg | |
| 93106027 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 50 | ug/kg | |
| 93106027 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 50 | ug/kg | |
| 93106027 | SR | VOA, EPA 8240 | ACETONE | ND | 100 | ug/kg | |
| 93106027 | SR | VOA, EPA 8240 | BENZENE | ND | 5 | ug/kg | |
| 93106027 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 5 | ug/kg | |
| 93106027 | SR | VOA, EPA 8240 | BROMOFORM | ND | 5 | ug/kg | |
| 93106027 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 10 | ug/kg | |
| 93106027 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 100 | ug/kg | |
| 93106027 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 5 | ug/kg | |
| 93106027 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 5 | ug/kg | |
| 93106027 | SR | VOA, EPA 8240 | CHLORODIBROMOMETHANE | ND | 5 | ug/kg | |
| 93106027 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 10 | ug/kg | |
| 93106027 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 5 | ug/kg | |
| 93106027 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 10 | ug/kg | |
| 93106027 | SR | VOA, EPA 8240 | CIS-1,2-DICHLOROETHYLENE | ND | 5 | ug/kg | |
| 93106027 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106027 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 5 | ug/kg | |
| 93106027 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | ND | 5 | ug/kg | |
| 93106027 | SR | VOA, EPA 8240 | STYRENE | ND | 5 | ug/kg | |
| 93106027 | SR | VOA, EPA 8240 | TETRACHLOROETHENE | ND | 5 | ug/kg | |
| 93106027 | SR | VOA, EPA 8240 | TOLUENE | ND | 5 | ug/kg | |
| 93106027 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106027 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106027 | SR | VOA, EPA 8240 | TRICHLOROETHENE | 17 | 5 | ug/kg | |
| 93106027 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE | ND | 10 | ug/kg | |
| 93106027 | SR | VOA, EPA 8240 | TRICHLOROTRIFLUOROETHANE(FREON113) | ND | 10 | ug/kg | |
| 93106027 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 50 | ug/kg | |
| 93106027 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 10 | ug/kg | |
| 93106027 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 5 | ug/kg | |
| 93106028 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106028 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 5 | ug/kg | |
| 93106028 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106028 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106028 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106028 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106028 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 5 | ug/kg | |

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|---|---|---|---|---|---|---|---|
| 93106028 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 5 | ug/kg | |
| 93106028 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106028 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106028 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 100 | ug/kg | |
| 93106028 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 10 | ug/kg | |
| 93106028 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 50 | ug/kg | |
| 93106028 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 50 | ug/kg | |
| 93106028 | SR | VOA, EPA 8240 | ACETONE | ND | 100 | ug/kg | |
| 93106028 | SR | VOA, EPA 8240 | BENZENE | ND | 5 | ug/kg | |
| 93106028 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 5 | ug/kg | |
| 93106028 | SR | VOA, EPA 8240 | BROMOFORM | ND | 5 | ug/kg | |
| 93106028 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 10 | ug/kg | |
| 93106028 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 100 | ug/kg | |
| 93106028 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 5 | ug/kg | |
| 93106028 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 5 | ug/kg | |
| 93106028 | SR | VOA, EPA 8240 | CHLORODIBROMOMETHANE | ND | 5 | ug/kg | |
| 93106028 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 10 | ug/kg | |
| 93106028 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 5 | ug/kg | |
| 93106028 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 10 | ug/kg | |
| 93106028 | SR | VOA, EPA 8240 | CIS-1,2-DICHLOROETHYLENE | ND | 5 | ug/kg | |
| 93106028 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106028 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 5 | ug/kg | |
| 93106028 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | ND | 5 | ug/kg | |
| 93106028 | SR | VOA, EPA 8240 | STYRENE | ND | 5 | ug/kg | |
| 93106028 | SR | VOA, EPA 8240 | TETRACHLOROETHENE | ND | 5 | ug/kg | |
| 93106028 | SR | VOA, EPA 8240 | TOLUENE | ND | 5 | ug/kg | |
| 93106028 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106028 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106028 | SR | VOA, EPA 8240 | TRICHLOROETHENE | 12 | 5 | ug/kg | |
| 93106028 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE | ND | 10 | ug/kg | |
| 93106028 | SR | VOA, EPA 8240 | TRICHLOROTRIFLUOROETHANE(FREON113) | ND | 10 | ug/kg | |
| 93106028 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 50 | ug/kg | |
| 93106028 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 10 | ug/kg | |
| 93106028 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 5 | ug/kg | |
| 93106029 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106029 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 5 | ug/kg | |
| 93106029 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106029 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106029 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106029 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106029 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106029 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 5 | ug/kg | |
| 93106029 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106029 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106029 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 100 | ug/kg | |
| 93106029 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 10 | ug/kg | |
| 93106029 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 50 | ug/kg | |
| 93106029 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 50 | ug/kg | |
| 93106029 | SR | VOA, EPA 8240 | ACETONE | ND | 100 | ug/kg | |
| 93106029 | SR | VOA, EPA 8240 | BENZENE | ND | 5 | ug/kg | |
| 93106029 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 5 | ug/kg | |
| 93106029 | SR | VOA, EPA 8240 | BROMOFORM | ND | 5 | ug/kg | |
| 93106029 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 10 | ug/kg | |
| 93106029 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 100 | ug/kg | |
| 93106029 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 5 | ug/kg | |
| 93106029 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 5 | ug/kg | |
| 93106029 | SR | VOA, EPA 8240 | CHLORODIBROMOMETHANE | ND | 5 | ug/kg | |
| 93106029 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 10 | ug/kg | |
| 93106029 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 5 | ug/kg | |
| 93106029 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 10 | ug/kg | |
| 93106029 | SR | VOA, EPA 8240 | CIS-1,2-DICHLOROETHYLENE | ND | 5 | ug/kg | |
| 93106029 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106029 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 5 | ug/kg | |
| 93106029 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | ND | 5 | ug/kg | |
| 93106029 | SR | VOA, EPA 8240 | STYRENE | ND | 5 | ug/kg | |
| 93106029 | SR | VOA, EPA 8240 | TETRACHLOROETHENE | ND | 5 | ug/kg | |
| 93106029 | SR | VOA, EPA 8240 | TOLUENE | ND | 5 | ug/kg | |
| 93106029 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106029 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106029 | SR | VOA, EPA 8240 | TRICHLOROETHENE | ND | 5 | ug/kg | |
| 93106029 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE | ND | 10 | ug/kg | |
| 93106029 | SR | VOA, EPA 8240 | TRICHLOROTRIFLUOROETHANE(FREON113) | ND | 10 | ug/kg | |
| 93106029 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 50 | ug/kg | |
| 93106029 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 10 | ug/kg | |

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|---|---|---|---|---|---|---|---|
| 93106029 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 5 | ug/kg | |
| 93106030 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106030 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 5 | ug/kg | |
| 93106030 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106030 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106030 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106030 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106030 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106030 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 5 | ug/kg | |
| 93106030 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106030 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106030 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 100 | ug/kg | |
| 93106030 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 10 | ug/kg | |
| 93106030 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 50 | ug/kg | |
| 93106030 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 50 | ug/kg | |
| 93106030 | SR | VOA, EPA 8240 | ACETONE | ND | 100 | ug/kg | |
| 93106030 | SR | VOA, EPA 8240 | BENZENE | ND | 5 | ug/kg | |
| 93106030 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 5 | ug/kg | |
| 93106030 | SR | VOA, EPA 8240 | BROMOFORM | ND | 5 | ug/kg | |
| 93106030 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 10 | ug/kg | |
| 93106030 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 100 | ug/kg | |
| 93106030 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 5 | ug/kg | |
| 93106030 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 5 | ug/kg | |
| 93106030 | SR | VOA, EPA 8240 | CHLORODIBROMOMETHANE | ND | 5 | ug/kg | |
| 93106030 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 10 | ug/kg | |
| 93106030 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 5 | ug/kg | |
| 93106030 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 10 | ug/kg | |
| 93106030 | SR | VOA, EPA 8240 | CIS-1,2-DICHLOROETHYLENE | ND | 5 | ug/kg | |
| 93106030 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106030 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 5 | ug/kg | |
| 93106030 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | ND | 5 | ug/kg | |
| 93106030 | SR | VOA, EPA 8240 | STYRENE | ND | 5 | ug/kg | |
| 93106030 | SR | VOA, EPA 8240 | TETRACHLOROETHENE | ND | 5 | ug/kg | |
| 93106030 | SR | VOA, EPA 8240 | TOLUENE | ND | 5 | ug/kg | |
| 93106030 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106030 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106030 | SR | VOA, EPA 8240 | TRICHLOROETHENE | ND | 5 | ug/kg | |
| 93106030 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE | ND | 10 | ug/kg | |
| 93106030 | SR | VOA, EPA 8240 | TRICHLOROTRIFLUOROETHANE(FREON113) | ND | 10 | ug/kg | |
| 93106030 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 50 | ug/kg | |
| 93106030 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 10 | ug/kg | |
| 93106030 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 5 | ug/kg | |
| 93106031 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106031 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 5 | ug/kg | |
| 93106031 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106031 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106031 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106031 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106031 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106031 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 5 | ug/kg | |
| 93106031 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106031 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106031 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 100 | ug/kg | |
| 93106031 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 10 | ug/kg | |
| 93106031 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 50 | ug/kg | |
| 93106031 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 50 | ug/kg | |
| 93106031 | SR | VOA, EPA 8240 | ACETONE | ND | 100 | ug/kg | |
| 93106031 | SR | VOA, EPA 8240 | BENZENE | ND | 5 | ug/kg | |
| 93106031 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 5 | ug/kg | |
| 93106031 | SR | VOA, EPA 8240 | BROMOFORM | ND | 5 | ug/kg | |
| 93106031 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 10 | ug/kg | |
| 93106031 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 100 | ug/kg | |
| 93106031 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 5 | ug/kg | |
| 93106031 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 5 | ug/kg | |
| 93106031 | SR | VOA, EPA 8240 | CHLORODIBROMOMETHANE | ND | 5 | ug/kg | |
| 93106031 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 10 | ug/kg | |
| 93106031 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 5 | ug/kg | |
| 93106031 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 10 | ug/kg | |
| 93106031 | SR | VOA, EPA 8240 | CIS-1,2-DICHLOROETHYLENE | ND | 5 | ug/kg | |
| 93106031 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106031 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 5 | ug/kg | |
| 93106031 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | ND | 5 | ug/kg | |
| 93106031 | SR | VOA, EPA 8240 | STYRENE | ND | 5 | ug/kg | |
| 93106031 | SR | VOA, EPA 8240 | TETRACHLOROETHENE | ND | 5 | ug/kg | |

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|---|---|---|---|---|---|---|---|
| 93106031 | SR | VOA, EPA 8240 | TOLUENE | ND | 5 | ug/kg | |
| 93106031 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106031 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106031 | SR | VOA, EPA 8240 | TRICHLOROETHENE | ND | 5 | ug/kg | |
| 93106031 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE | ND | 10 | ug/kg | |
| 93106031 | SR | VOA, EPA 8240 | TRICHLOROTRIFLUOROETHANE(FREON113) | ND | 10 | ug/kg | |
| 93106031 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 50 | ug/kg | |
| 93106031 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 10 | ug/kg | |
| 93106031 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 5 | ug/kg | |
| 93106032 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 6.5 | ug/kg | |
| 93106032 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 6.5 | ug/kg | |
| 93106032 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 6.5 | ug/kg | |
| 93106032 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 6.5 | ug/kg | |
| 93106032 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 6.5 | ug/kg | |
| 93106032 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 6.5 | ug/kg | |
| 93106032 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 6.5 | ug/kg | |
| 93106032 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 6.5 | ug/kg | |
| 93106032 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 6.5 | ug/kg | |
| 93106032 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 6.5 | ug/kg | |
| 93106032 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 13 | ug/kg | |
| 93106032 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 13 | ug/kg | |
| 93106032 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 13 | ug/kg | |
| 93106032 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 13 | ug/kg | |
| 93106032 | SR | VOA, EPA 8240 | ACETONE | ND | 6.5 | ug/kg | |
| 93106032 | SR | VOA, EPA 8240 | BENZENE | ND | 6.5 | ug/kg | |
| 93106032 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 6.5 | ug/kg | |
| 93106032 | SR | VOA, EPA 8240 | BROMOFORM | ND | 6.5 | ug/kg | |
| 93106032 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 6.5 | ug/kg | |
| 93106032 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 6.5 | ug/kg | |
| 93106032 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 6.5 | ug/kg | |
| 93106032 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 6.5 | ug/kg | |
| 93106032 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 6.5 | ug/kg | |
| 93106032 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 6.5 | ug/kg | |
| 93106032 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 6.5 | ug/kg | |
| 93106032 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 6.5 | ug/kg | |
| 93106032 | SR | VOA, EPA 8240 | DIBROMOCHLOROMETHANE | ND | 6.5 | ug/kg | |
| 93106032 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 6.5 | ug/kg | |
| 93106032 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | ND | 6.5 | ug/kg | |
| 93106032 | SR | VOA, EPA 8240 | STYRENE | ND | 6.5 | ug/kg | |
| 93106032 | SR | VOA, EPA 8240 | TETRACHLOROETHENE | ND | 6.5 | ug/kg | |
| 93106032 | SR | VOA, EPA 8240 | TOLUENE | ND | 6.5 | ug/kg | |
| 93106032 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 6.5 | ug/kg | |
| 93106032 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 6.5 | ug/kg | |
| 93106032 | SR | VOA, EPA 8240 | TRICHLOROETHENE | ND | 6.5 | ug/kg | |
| 93106032 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE | ND | 6.5 | ug/kg | |
| 93106032 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 13 | ug/kg | |
| 93106032 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 6.5 | ug/kg | |
| 93106032 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 6.5 | ug/kg | |
| 93106033 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106033 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 5 | ug/kg | |
| 93106033 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106033 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106033 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106033 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106033 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106033 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 5 | ug/kg | |
| 93106033 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106033 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106033 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 100 | ug/kg | |
| 93106033 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 10 | ug/kg | |
| 93106033 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 50 | ug/kg | |
| 93106033 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 50 | ug/kg | |
| 93106033 | SR | VOA, EPA 8240 | ACETONE | ND | 100 | ug/kg | |
| 93106033 | SR | VOA, EPA 8240 | BENZENE | ND | 5 | ug/kg | |
| 93106033 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 5 | ug/kg | |
| 93106033 | SR | VOA, EPA 8240 | BROMOFORM | ND | 5 | ug/kg | |
| 93106033 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 10 | ug/kg | |
| 93106033 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 100 | ug/kg | |
| 93106033 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 5 | ug/kg | |
| 93106033 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 5 | ug/kg | |
| 93106033 | SR | VOA, EPA 8240 | CHLORODIBROMOMETHANE | ND | 5 | ug/kg | |
| 93106033 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 10 | ug/kg | |
| 93106033 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 5 | ug/kg | |
| 93106033 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 10 | ug/kg | |

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|---|---|---|---|---|---|---|---|
| 93106033 | SR | VOA, EPA 8240 | CIS-1,2-DICHLOROETHYLENE | ND | 5 | ug/kg | |
| 93106033 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106033 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 5 | ug/kg | |
| 93106033 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | ND | 5 | ug/kg | |
| 93106033 | SR | VOA, EPA 8240 | STYRENE | ND | 5 | ug/kg | |
| 93106033 | SR | VOA, EPA 8240 | TETRACHLOROETHENE | ND | 5 | ug/kg | |
| 93106033 | SR | VOA, EPA 8240 | TOLUENE | ND | 5 | ug/kg | |
| 93106033 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106033 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106033 | SR | VOA, EPA 8240 | TRICHLOROETHENE | ND | 5 | ug/kg | |
| 93106033 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE | ND | 10 | ug/kg | |
| 93106033 | SR | VOA, EPA 8240 | TRICHLOROTRIFLUOROETHANE(FREON113) | ND | 10 | ug/kg | |
| 93106033 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 50 | ug/kg | |
| 93106033 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 10 | ug/kg | |
| 93106033 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 5 | ug/kg | |
| 93106034 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 0.5 | ug/kg | |
| 93106034 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 0.5 | ug/kg | |
| 93106034 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 0.5 | ug/kg | |
| 93106034 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 0.5 | ug/kg | |
| 93106034 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 0.5 | ug/kg | |
| 93106034 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 0.5 | ug/kg | |
| 93106034 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 0.5 | ug/kg | |
| 93106034 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 0.5 | ug/kg | |
| 93106034 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 0.5 | ug/kg | |
| 93106034 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 0.5 | ug/kg | |
| 93106034 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 10 | ug/kg | |
| 93106034 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 1 | ug/kg | |
| 93106034 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 5 | ug/kg | |
| 93106034 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 5 | ug/kg | |
| 93106034 | SR | VOA, EPA 8240 | ACETONE | ND | 10 | ug/kg | |
| 93106034 | SR | VOA, EPA 8240 | BENZENE | ND | 0.5 | ug/kg | |
| 93106034 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 0.5 | ug/kg | |
| 93106034 | SR | VOA, EPA 8240 | BROMOFORM | ND | 0.5 | ug/kg | |
| 93106034 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 1 | ug/kg | |
| 93106034 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 10 | ug/kg | |
| 93106034 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 0.5 | ug/kg | |
| 93106034 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 0.5 | ug/kg | |
| 93106034 | SR | VOA, EPA 8240 | CHLORODIBROMOMETHANE | ND | 0.5 | ug/kg | |
| 93106034 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 1 | ug/kg | |
| 93106034 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 0.5 | ug/kg | |
| 93106034 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 1 | ug/kg | |
| 93106034 | SR | VOA, EPA 8240 | CIS-1,2-DICHLOROETHYLENE | ND | 0.5 | ug/kg | |
| 93106034 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 0.5 | ug/kg | |
| 93106034 | SR | VOA, EPA 8240 | ETHYL BENZENE | 0.8 | 0.5 | ug/kg | |
| 93106034 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | ND | 0.5 | ug/kg | |
| 93106034 | SR | VOA, EPA 8240 | STYRENE | ND | 0.5 | ug/kg | |
| 93106034 | SR | VOA, EPA 8240 | TETRACHLOROETHENE | ND | 0.5 | ug/kg | |
| 93106034 | SR | VOA, EPA 8240 | TOLUENE | ND | 0.5 | ug/kg | |
| 93106034 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 0.5 | ug/kg | |
| 93106034 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 0.5 | ug/kg | |
| 93106034 | SR | VOA, EPA 8240 | TRICHLOROETHENE | ND | 0.5 | ug/kg | |
| 93106034 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE | ND | 1 | ug/kg | |
| 93106034 | SR | VOA, EPA 8240 | TRICHLOROTRIFLUOROETHANE(FREON113) | ND | 1 | ug/kg | |
| 93106034 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 5 | ug/kg | |
| 93106034 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 1 | ug/kg | |
| 93106034 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | 2.8 | 0.5 | ug/kg | |
| 93106036 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106036 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 5 | ug/kg | |
| 93106036 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106036 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106036 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106036 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106036 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106036 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 5 | ug/kg | |
| 93106036 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106036 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106036 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 100 | ug/kg | |
| 93106036 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 10 | ug/kg | |
| 93106036 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 50 | ug/kg | |
| 93106036 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 50 | ug/kg | |
| 93106036 | SR | VOA, EPA 8240 | ACETONE | ND | 100 | ug/kg | |
| 93106036 | SR | VOA, EPA 8240 | BENZENE | ND | 5 | ug/kg | |
| 93106036 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 5 | ug/kg | |
| 93106036 | SR | VOA, EPA 8240 | BROMOFORM | ND | 5 | ug/kg | |

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|---|---|---|---|---|---|---|---|
| 93106036 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 10 | ug/kg | |
| 93106036 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 100 | ug/kg | |
| 93106036 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 5 | ug/kg | |
| 93106036 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 5 | ug/kg | |
| 93106036 | SR | VOA, EPA 8240 | CHLORODIBROMOMETHANE | ND | 5 | ug/kg | |
| 93106036 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 10 | ug/kg | |
| 93106036 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 5 | ug/kg | |
| 93106036 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 10 | ug/kg | |
| 93106036 | SR | VOA, EPA 8240 | CIS-1,2-DICHLOROETHYLENE | ND | 5 | ug/kg | |
| 93106036 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106036 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 5 | ug/kg | |
| 93106036 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | ND | 5 | ug/kg | |
| 93106036 | SR | VOA, EPA 8240 | STYRENE | ND | 5 | ug/kg | |
| 93106036 | SR | VOA, EPA 8240 | TETRACHLOROETHENE | ND | 5 | ug/kg | |
| 93106036 | SR | VOA, EPA 8240 | TOLUENE | ND | 5 | ug/kg | |
| 93106036 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106036 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106036 | SR | VOA, EPA 8240 | TRICHLOROETHENE | ND | 5 | ug/kg | |
| 93106036 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE | ND | 10 | ug/kg | |
| 93106036 | SR | VOA, EPA 8240 | TRICHLOROTRIFLUOROETHANE(FREON113) | ND | 10 | ug/kg | |
| 93106036 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 50 | ug/kg | |
| 93106036 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 10 | ug/kg | |
| 93106036 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 5 | ug/kg | |
| 93106037 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106037 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 5 | ug/kg | |
| 93106037 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106037 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106037 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106037 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106037 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106037 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 5 | ug/kg | |
| 93106037 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106037 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106037 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 100 | ug/kg | |
| 93106037 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 10 | ug/kg | |
| 93106037 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 50 | ug/kg | |
| 93106037 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 50 | ug/kg | |
| 93106037 | SR | VOA, EPA 8240 | ACETONE | ND | 100 | ug/kg | |
| 93106037 | SR | VOA, EPA 8240 | BENZENE | ND | 5 | ug/kg | |
| 93106037 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 5 | ug/kg | |
| 93106037 | SR | VOA, EPA 8240 | BROMOFORM | ND | 5 | ug/kg | |
| 93106037 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 10 | ug/kg | |
| 93106037 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 100 | ug/kg | |
| 93106037 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 5 | ug/kg | |
| 93106037 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 5 | ug/kg | |
| 93106037 | SR | VOA, EPA 8240 | CHLORODIBROMOMETHANE | ND | 5 | ug/kg | |
| 93106037 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 10 | ug/kg | |
| 93106037 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 5 | ug/kg | |
| 93106037 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 10 | ug/kg | |
| 93106037 | SR | VOA, EPA 8240 | CIS-1,2-DICHLOROETHYLENE | ND | 5 | ug/kg | |
| 93106037 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106037 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 5 | ug/kg | |
| 93106037 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | ND | 5 | ug/kg | |
| 93106037 | SR | VOA, EPA 8240 | STYRENE | ND | 5 | ug/kg | |
| 93106037 | SR | VOA, EPA 8240 | TETRACHLOROETHENE | ND | 5 | ug/kg | |
| 93106037 | SR | VOA, EPA 8240 | TOLUENE | ND | 5 | ug/kg | |
| 93106037 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106037 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106037 | SR | VOA, EPA 8240 | TRICHLOROETHENE | ND | 5 | ug/kg | |
| 93106037 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE | ND | 10 | ug/kg | |
| 93106037 | SR | VOA, EPA 8240 | TRICHLOROTRIFLUOROETHANE(FREON113) | ND | 10 | ug/kg | |
| 93106037 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 50 | ug/kg | |
| 93106037 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 10 | ug/kg | |
| 93106037 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 5 | ug/kg | |
| 93106038 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106038 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 5 | ug/kg | |
| 93106038 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106038 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106038 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106038 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106038 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106038 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 5 | ug/kg | |
| 93106038 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106038 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 5 | ug/kg | |

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|---|---|---|---|---|---|---|---|
| 93106038 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 100 | ug/kg | |
| 93106038 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 10 | ug/kg | |
| 93106038 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 50 | ug/kg | |
| 93106038 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 50 | ug/kg | |
| 93106038 | SR | VOA, EPA 8240 | ACETONE | ND | 100 | ug/kg | |
| 93106038 | SR | VOA, EPA 8240 | BENZENE | ND | 5 | ug/kg | |
| 93106038 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 5 | ug/kg | |
| 93106038 | SR | VOA, EPA 8240 | BROMOFORM | ND | 5 | ug/kg | |
| 93106038 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 10 | ug/kg | |
| 93106038 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 100 | ug/kg | |
| 93106038 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 5 | ug/kg | |
| 93106038 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 5 | ug/kg | |
| 93106038 | SR | VOA, EPA 8240 | CHLORODIBROMOMETHANE | ND | 5 | ug/kg | |
| 93106038 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 10 | ug/kg | |
| 93106038 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 5 | ug/kg | |
| 93106038 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 10 | ug/kg | |
| 93106038 | SR | VOA, EPA 8240 | CIS-1,2-DICHLOROETHYLENE | ND | 5 | ug/kg | |
| 93106038 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106038 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 5 | ug/kg | |
| 93106038 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | ND | 5 | ug/kg | |
| 93106038 | SR | VOA, EPA 8240 | STYRENE | ND | 5 | ug/kg | |
| 93106038 | SR | VOA, EPA 8240 | TETRACHLOROETHENE | ND | 5 | ug/kg | |
| 93106038 | SR | VOA, EPA 8240 | TOLUENE | ND | 5 | ug/kg | |
| 93106038 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106038 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106038 | SR | VOA, EPA 8240 | TRICHLOROETHENE | 11 | 5 | ug/kg | |
| 93106038 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE | ND | 10 | ug/kg | |
| 93106038 | SR | VOA, EPA 8240 | TRICHLOROTRIFLUOROETHANE(FREON113) | ND | 10 | ug/kg | |
| 93106038 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 50 | ug/kg | |
| 93106038 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 10 | ug/kg | |
| 93106038 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 5 | ug/kg | |
| 93106047 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106047 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 5 | ug/kg | |
| 93106047 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106047 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106047 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106047 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106047 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106047 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 5 | ug/kg | |
| 93106047 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106047 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106047 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 100 | ug/kg | |
| 93106047 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 10 | ug/kg | |
| 93106047 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 50 | ug/kg | |
| 93106047 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 50 | ug/kg | |
| 93106047 | SR | VOA, EPA 8240 | ACETONE | ND | 100 | ug/kg | |
| 93106047 | SR | VOA, EPA 8240 | BENZENE | ND | 5 | ug/kg | |
| 93106047 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 5 | ug/kg | |
| 93106047 | SR | VOA, EPA 8240 | BROMOFORM | ND | 5 | ug/kg | |
| 93106047 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 10 | ug/kg | |
| 93106047 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 100 | ug/kg | |
| 93106047 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 5 | ug/kg | |
| 93106047 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 5 | ug/kg | |
| 93106047 | SR | VOA, EPA 8240 | CHLORODIBROMOMETHANE | ND | 5 | ug/kg | |
| 93106047 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 10 | ug/kg | |
| 93106047 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 5 | ug/kg | |
| 93106047 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 10 | ug/kg | |
| 93106047 | SR | VOA, EPA 8240 | CIS-1,2-DICHLOROETHYLENE | ND | 5 | ug/kg | |
| 93106047 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106047 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 5 | ug/kg | |
| 93106047 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | ND | 5 | ug/kg | |
| 93106047 | SR | VOA, EPA 8240 | STYRENE | ND | 5 | ug/kg | |
| 93106047 | SR | VOA, EPA 8240 | TETRACHLOROETHENE | ND | 5 | ug/kg | |
| 93106047 | SR | VOA, EPA 8240 | TOLUENE | ND | 5 | ug/kg | |
| 93106047 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106047 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106047 | SR | VOA, EPA 8240 | TRICHLOROETHENE | ND | 5 | ug/kg | |
| 93106047 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE | ND | 10 | ug/kg | |
| 93106047 | SR | VOA, EPA 8240 | TRICHLOROTRIFLUOROETHANE(FREON113) | ND | 10 | ug/kg | |
| 93106047 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 50 | ug/kg | |
| 93106047 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 10 | ug/kg | |
| 93106047 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 5 | ug/kg | |
| 93106039 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106039 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 5 | ug/kg | |

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|---|---|---|---|---|---|---|---|
| 93106039 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106039 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106039 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106039 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106039 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106039 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 5 | ug/kg | |
| 93106039 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106039 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106039 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 100 | ug/kg | |
| 93106039 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 10 | ug/kg | |
| 93106039 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 50 | ug/kg | |
| 93106039 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 50 | ug/kg | |
| 93106039 | SR | VOA, EPA 8240 | ACETONE | ND | 100 | ug/kg | |
| 93106039 | SR | VOA, EPA 8240 | BENZENE | ND | 5 | ug/kg | |
| 93106039 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 5 | ug/kg | |
| 93106039 | SR | VOA, EPA 8240 | BROMOFORM | ND | 5 | ug/kg | |
| 93106039 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 10 | ug/kg | |
| 93106039 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 100 | ug/kg | |
| 93106039 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 5 | ug/kg | |
| 93106039 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 5 | ug/kg | |
| 93106039 | SR | VOA, EPA 8240 | CHLORODIBROMOMETHANE | ND | 5 | ug/kg | |
| 93106039 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 10 | ug/kg | |
| 93106039 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 5 | ug/kg | |
| 93106039 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 10 | ug/kg | |
| 93106039 | SR | VOA, EPA 8240 | CIS-1,2-DICHLOROETHYLENE | ND | 5 | ug/kg | |
| 93106039 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106039 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 5 | ug/kg | |
| 93106039 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | ND | 5 | ug/kg | |
| 93106039 | SR | VOA, EPA 8240 | STYRENE | ND | 5 | ug/kg | |
| 93106039 | SR | VOA, EPA 8240 | TETRACHLOROETHENE | ND | 5 | ug/kg | |
| 93106039 | SR | VOA, EPA 8240 | TOLUENE | ND | 5 | ug/kg | |
| 93106039 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106039 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106039 | SR | VOA, EPA 8240 | TRICHLOROETHENE | ND | 5 | ug/kg | |
| 93106039 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE | ND | 10 | ug/kg | |
| 93106039 | SR | VOA, EPA 8240 | TRICHLOROTRIFLUOROETHANE(FREON113) | ND | 10 | ug/kg | |
| 93106039 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 50 | ug/kg | |
| 93106039 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 10 | ug/kg | |
| 93106039 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 5 | ug/kg | |
| 93106040 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106040 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 5 | ug/kg | |
| 93106040 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106040 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106040 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106040 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106040 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106040 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 5 | ug/kg | |
| 93106040 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106040 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106040 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 100 | ug/kg | |
| 93106040 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 10 | ug/kg | |
| 93106040 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 50 | ug/kg | |
| 93106040 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 50 | ug/kg | |
| 93106040 | SR | VOA, EPA 8240 | ACETONE | ND | 100 | ug/kg | |
| 93106040 | SR | VOA, EPA 8240 | BENZENE | ND | 5 | ug/kg | |
| 93106040 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 5 | ug/kg | |
| 93106040 | SR | VOA, EPA 8240 | BROMOFORM | ND | 5 | ug/kg | |
| 93106040 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 10 | ug/kg | |
| 93106040 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 100 | ug/kg | |
| 93106040 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 5 | ug/kg | |
| 93106040 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 5 | ug/kg | |
| 93106040 | SR | VOA, EPA 8240 | CHLORODIBROMOMETHANE | ND | 5 | ug/kg | |
| 93106040 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 10 | ug/kg | |
| 93106040 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 5 | ug/kg | |
| 93106040 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 10 | ug/kg | |
| 93106040 | SR | VOA, EPA 8240 | CIS-1,2-DICHLOROETHYLENE | ND | 5 | ug/kg | |
| 93106040 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106040 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 5 | ug/kg | |
| 93106040 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | ND | 5 | ug/kg | |
| 93106040 | SR | VOA, EPA 8240 | STYRENE | ND | 5 | ug/kg | |
| 93106040 | SR | VOA, EPA 8240 | TETRACHLOROETHENE | ND | 5 | ug/kg | |
| 93106040 | SR | VOA, EPA 8240 | TOLUENE | ND | 5 | ug/kg | |
| 93106040 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106040 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 93106040 | SR | VOA, EPA 8240 | TRICHLOROETHENE | ND | 5 | ug/kg | |
| 93106040 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE | ND | 10 | ug/kg | |
| 93106040 | SR | VOA, EPA 8240 | TRICHLOROTRIFLUOROETHANE(FREON113) | ND | 10 | ug/kg | |
| 93106040 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 50 | ug/kg | |
| 93106040 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 10 | ug/kg | |
| 93106040 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 5 | ug/kg | |
| 93106048 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 6.1 | ug/kg | |
| 93106048 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 6.1 | ug/kg | |
| 93106048 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 6.1 | ug/kg | |
| 93106048 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 6.1 | ug/kg | |
| 93106048 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 6.1 | ug/kg | |
| 93106048 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 6.1 | ug/kg | |
| 93106048 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 6.1 | ug/kg | |
| 93106048 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 6.1 | ug/kg | |
| 93106048 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 6.1 | ug/kg | |
| 93106048 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 6.1 | ug/kg | |
| 93106048 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 12 | ug/kg | |
| 93106048 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 12 | ug/kg | |
| 93106048 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 12 | ug/kg | |
| 93106048 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 12 | ug/kg | |
| 93106048 | SR | VOA, EPA 8240 | ACETONE | ND | 6.1 | ug/kg | |
| 93106048 | SR | VOA, EPA 8240 | BENZENE | ND | 6.1 | ug/kg | |
| 93106048 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 6.1 | ug/kg | |
| 93106048 | SR | VOA, EPA 8240 | BROMOFORM | ND | 6.1 | ug/kg | |
| 93106048 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 6.1 | ug/kg | |
| 93106048 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 6.1 | ug/kg | |
| 93106048 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 6.1 | ug/kg | |
| 93106048 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 6.1 | ug/kg | |
| 93106048 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 6.1 | ug/kg | |
| 93106048 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 6.1 | ug/kg | |
| 93106048 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 6.1 | ug/kg | |
| 93106048 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 6.1 | ug/kg | |
| 93106048 | SR | VOA, EPA 8240 | DIBROMOCHLOROMETHANE | ND | 6.1 | ug/kg | |
| 93106048 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 6.1 | ug/kg | |
| 93106048 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | 7.7 B | 6.1 | ug/kg | ?B? |
| 93106048 | SR | VOA, EPA 8240 | STYRENE | ND | 6.1 | ug/kg | |
| 93106048 | SR | VOA, EPA 8240 | TETRACHLOROETHENE | ND | 6.1 | ug/kg | |
| 93106048 | SR | VOA, EPA 8240 | TOLUENE | ND | 6.1 | ug/kg | |
| 93106048 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 6.1 | ug/kg | |
| 93106048 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 6.1 | ug/kg | |
| 93106048 | SR | VOA, EPA 8240 | TRICHLOROETHENE | ND | 6.1 | ug/kg | |
| 93106048 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE | ND | 6.1 | ug/kg | |
| 93106048 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 12 | ug/kg | |
| 93106048 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 6.1 | ug/kg | |
| 93106048 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 6.1 | ug/kg | |
| 93106041 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106041 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 5 | ug/kg | |
| 93106041 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106041 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106041 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106041 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106041 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106041 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 5 | ug/kg | |
| 93106041 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106041 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106041 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 100 | ug/kg | |
| 93106041 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 10 | ug/kg | |
| 93106041 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 50 | ug/kg | |
| 93106041 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 50 | ug/kg | |
| 93106041 | SR | VOA, EPA 8240 | ACETONE | ND | 100 | ug/kg | |
| 93106041 | SR | VOA, EPA 8240 | BENZENE | ND | 5 | ug/kg | |
| 93106041 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 5 | ug/kg | |
| 93106041 | SR | VOA, EPA 8240 | BROMOFORM | ND | 5 | ug/kg | |
| 93106041 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 10 | ug/kg | |
| 93106041 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 100 | ug/kg | |
| 93106041 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 5 | ug/kg | |
| 93106041 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 5 | ug/kg | |
| 93106041 | SR | VOA, EPA 8240 | CHLORODIBROMOMETHANE | ND | 5 | ug/kg | |
| 93106041 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 10 | ug/kg | |
| 93106041 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 5 | ug/kg | |
| 93106041 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 10 | ug/kg | |
| 93106041 | SR | VOA, EPA 8240 | CIS-1,2-DICHLOROETHYLENE | ND | 5 | ug/kg | |
| 93106041 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106041 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 5 | ug/kg | |

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|---|---|---|---|---|---|---|---|
| 93106041 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | ND | 5 | ug/kg | |
| 93106041 | SR | VOA, EPA 8240 | STYRENE | ND | 5 | ug/kg | |
| 93106041 | SR | VOA, EPA 8240 | TETRACHLOROETHENE | ND | 5 | ug/kg | |
| 93106041 | SR | VOA, EPA 8240 | TOLUENE | ND | 5 | ug/kg | |
| 93106041 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106041 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106041 | SR | VOA, EPA 8240 | TRICHLOROETHENE | ND | 5 | ug/kg | |
| 93106041 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE | ND | 10 | ug/kg | |
| 93106041 | SR | VOA, EPA 8240 | TRICHLOROTRIFLUOROETHANE(FREON113) | ND | 10 | ug/kg | |
| 93106041 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 50 | ug/kg | |
| 93106041 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 10 | ug/kg | |
| 93106041 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 5 | ug/kg | |
| 93106050 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106050 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 5 | ug/kg | |
| 93106050 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106050 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106050 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106050 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106050 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106050 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 5 | ug/kg | |
| 93106050 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106050 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106050 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 100 | ug/kg | |
| 93106050 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 10 | ug/kg | |
| 93106050 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 50 | ug/kg | |
| 93106050 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 50 | ug/kg | |
| 93106050 | SR | VOA, EPA 8240 | ACETONE | ND | 100 | ug/kg | |
| 93106050 | SR | VOA, EPA 8240 | BENZENE | ND | 5 | ug/kg | |
| 93106050 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 5 | ug/kg | |
| 93106050 | SR | VOA, EPA 8240 | BROMOFORM | ND | 5 | ug/kg | |
| 93106050 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 10 | ug/kg | |
| 93106050 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 100 | ug/kg | |
| 93106050 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 5 | ug/kg | |
| 93106050 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 5 | ug/kg | |
| 93106050 | SR | VOA, EPA 8240 | CHLORODIBROMOMETHANE | ND | 5 | ug/kg | |
| 93106050 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 10 | ug/kg | |
| 93106050 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 5 | ug/kg | |
| 93106050 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 10 | ug/kg | |
| 93106050 | SR | VOA, EPA 8240 | CIS-1,2-DICHLOROETHYLENE | ND | 5 | ug/kg | |
| 93106050 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106050 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 5 | ug/kg | |
| 93106050 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | ND | 5 | ug/kg | |
| 93106050 | SR | VOA, EPA 8240 | STYRENE | ND | 5 | ug/kg | |
| 93106050 | SR | VOA, EPA 8240 | TETRACHLOROETHENE | ND | 5 | ug/kg | |
| 93106050 | SR | VOA, EPA 8240 | TOLUENE | ND | 5 | ug/kg | |
| 93106050 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106050 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106050 | SR | VOA, EPA 8240 | TRICHLOROETHENE | ND | 5 | ug/kg | |
| 93106050 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE | ND | 10 | ug/kg | |
| 93106050 | SR | VOA, EPA 8240 | TRICHLOROTRIFLUOROETHANE(FREON113) | ND | 10 | ug/kg | |
| 93106050 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 50 | ug/kg | |
| 93106050 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 10 | ug/kg | |
| 93106050 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 5 | ug/kg | |
| 93106042 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106042 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 5 | ug/kg | |
| 93106042 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106042 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106042 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106042 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106042 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106042 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 5 | ug/kg | |
| 93106042 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106042 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106042 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 100 | ug/kg | |
| 93106042 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 10 | ug/kg | |
| 93106042 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 50 | ug/kg | |
| 93106042 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 50 | ug/kg | |
| 93106042 | SR | VOA, EPA 8240 | ACETONE | ND | 100 | ug/kg | |
| 93106042 | SR | VOA, EPA 8240 | BENZENE | ND | 5 | ug/kg | |
| 93106042 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 5 | ug/kg | |
| 93106042 | SR | VOA, EPA 8240 | BROMOFORM | ND | 5 | ug/kg | |
| 93106042 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 10 | ug/kg | |
| 93106042 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 100 | ug/kg | |
| 93106042 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 5 | ug/kg | |

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|---|---|---|---|---|---|---|---|
| 93106042 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 5 | ug/kg | |
| 93106042 | SR | VOA, EPA 8240 | CHLORODIBROMOMETHANE | ND | 5 | ug/kg | |
| 93106042 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 10 | ug/kg | |
| 93106042 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 5 | ug/kg | |
| 93106042 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 10 | ug/kg | |
| 93106042 | SR | VOA, EPA 8240 | CIS-1,2-DICHLOROETHYLENE | ND | 5 | ug/kg | |
| 93106042 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106042 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 5 | ug/kg | |
| 93106042 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | ND | 5 | ug/kg | |
| 93106042 | SR | VOA, EPA 8240 | STYRENE | ND | 5 | ug/kg | |
| 93106042 | SR | VOA, EPA 8240 | TETRACHLOROETHENE | ND | 5 | ug/kg | |
| 93106042 | SR | VOA, EPA 8240 | TOLUENE | ND | 5 | ug/kg | |
| 93106042 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106042 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106042 | SR | VOA, EPA 8240 | TRICHLOROETHENE | ND | 5 | ug/kg | |
| 93106042 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE | ND | 10 | ug/kg | |
| 93106042 | SR | VOA, EPA 8240 | TRICHLOROTRIFLUOROETHANE(FREON113) | ND | 10 | ug/kg | |
| 93106042 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 50 | ug/kg | |
| 93106042 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 10 | ug/kg | |
| 93106042 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 5 | ug/kg | |
| 93106053 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106053 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 5 | ug/kg | |
| 93106053 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106053 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106053 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106053 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106053 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106053 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 5 | ug/kg | |
| 93106053 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106053 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106053 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 100 | ug/kg | |
| 93106053 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 10 | ug/kg | |
| 93106053 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 50 | ug/kg | |
| 93106053 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 50 | ug/kg | |
| 93106053 | SR | VOA, EPA 8240 | ACETONE | ND | 100 | ug/kg | |
| 93106053 | SR | VOA, EPA 8240 | BENZENE | ND | 5 | ug/kg | |
| 93106053 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 5 | ug/kg | |
| 93106053 | SR | VOA, EPA 8240 | BROMOFORM | ND | 5 | ug/kg | |
| 93106053 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 10 | ug/kg | |
| 93106053 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 100 | ug/kg | |
| 93106053 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 5 | ug/kg | |
| 93106053 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 5 | ug/kg | |
| 93106053 | SR | VOA, EPA 8240 | CHLORODIBROMOMETHANE | ND | 5 | ug/kg | |
| 93106053 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 10 | ug/kg | |
| 93106053 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 5 | ug/kg | |
| 93106053 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 10 | ug/kg | |
| 93106053 | SR | VOA, EPA 8240 | CIS-1,2-DICHLOROETHYLENE | ND | 5 | ug/kg | |
| 93106053 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106053 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 5 | ug/kg | |
| 93106053 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | ND | 5 | ug/kg | |
| 93106053 | SR | VOA, EPA 8240 | STYRENE | ND | 5 | ug/kg | |
| 93106053 | SR | VOA, EPA 8240 | TETRACHLOROETHENE | ND | 5 | ug/kg | |
| 93106053 | SR | VOA, EPA 8240 | TOLUENE | ND | 5 | ug/kg | |
| 93106053 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106053 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106053 | SR | VOA, EPA 8240 | TRICHLOROETHENE | 38 | 5 | ug/kg | |
| 93106053 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE | ND | 10 | ug/kg | |
| 93106053 | SR | VOA, EPA 8240 | TRICHLOROTRIFLUOROETHANE(FREON113) | ND | 10 | ug/kg | |
| 93106053 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 50 | ug/kg | |
| 93106053 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 10 | ug/kg | |
| 93106053 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 5 | ug/kg | |
| 93106054 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106054 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 5 | ug/kg | |
| 93106054 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106054 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106054 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106054 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106054 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106054 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 5 | ug/kg | |
| 93106054 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106054 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106054 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 100 | ug/kg | |
| 93106054 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 10 | ug/kg | |
| 93106054 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 50 | ug/kg | |

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|---|---|---|---|---|---|---|---|
| 93106054 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 50 | ug/kg | |
| 93106054 | SR | VOA, EPA 8240 | ACETONE | ND | 100 | ug/kg | |
| 93106054 | SR | VOA, EPA 8240 | BENZENE | ND | 5 | ug/kg | |
| 93106054 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 5 | ug/kg | |
| 93106054 | SR | VOA, EPA 8240 | BROMOFORM | ND | 5 | ug/kg | |
| 93106054 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 10 | ug/kg | |
| 93106054 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 100 | ug/kg | |
| 93106054 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 5 | ug/kg | |
| 93106054 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 5 | ug/kg | |
| 93106054 | SR | VOA, EPA 8240 | CHLORODIBROMOMETHANE | ND | 5 | ug/kg | |
| 93106054 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 10 | ug/kg | |
| 93106054 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 5 | ug/kg | |
| 93106054 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 10 | ug/kg | |
| 93106054 | SR | VOA, EPA 8240 | CIS-1,2-DICHLOROETHYLENE | 39 | 5 | ug/kg | |
| 93106054 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106054 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 5 | ug/kg | |
| 93106054 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | ND | 5 | ug/kg | |
| 93106054 | SR | VOA, EPA 8240 | STYRENE | ND | 5 | ug/kg | |
| 93106054 | SR | VOA, EPA 8240 | TETRACHLOROETHENE | ND | 5 | ug/kg | |
| 93106054 | SR | VOA, EPA 8240 | TOLUENE | ND | 5 | ug/kg | |
| 93106054 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106054 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106054 | SR | VOA, EPA 8240 | TRICHLOROETHENE | 350 D | 5 | ug/kg | ?D? |
| 93106054 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE | ND | 10 | ug/kg | |
| 93106054 | SR | VOA, EPA 8240 | TRICHLOROTRIFLUOROETHANE(FREON113) | ND | 10 | ug/kg | |
| 93106054 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 50 | ug/kg | |
| 93106054 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 10 | ug/kg | |
| 93106054 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 5 | ug/kg | |
| 93106055 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106055 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 5 | ug/kg | |
| 93106055 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106055 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106055 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106055 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106055 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106055 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 5 | ug/kg | |
| 93106055 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106055 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106055 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 100 | ug/kg | |
| 93106055 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 10 | ug/kg | |
| 93106055 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 50 | ug/kg | |
| 93106055 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 50 | ug/kg | |
| 93106055 | SR | VOA, EPA 8240 | ACETONE | ND | 100 | ug/kg | |
| 93106055 | SR | VOA, EPA 8240 | BENZENE | ND | 5 | ug/kg | |
| 93106055 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 5 | ug/kg | |
| 93106055 | SR | VOA, EPA 8240 | BROMOFORM | ND | 5 | ug/kg | |
| 93106055 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 10 | ug/kg | |
| 93106055 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 100 | ug/kg | |
| 93106055 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 5 | ug/kg | |
| 93106055 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 5 | ug/kg | |
| 93106055 | SR | VOA, EPA 8240 | CHLORODIBROMOMETHANE | ND | 5 | ug/kg | |
| 93106055 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 10 | ug/kg | |
| 93106055 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 5 | ug/kg | |
| 93106055 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 10 | ug/kg | |
| 93106055 | SR | VOA, EPA 8240 | CIS-1,2-DICHLOROETHYLENE | ND | 5 | ug/kg | |
| 93106055 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106055 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 5 | ug/kg | |
| 93106055 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | ND | 5 | ug/kg | |
| 93106055 | SR | VOA, EPA 8240 | STYRENE | ND | 5 | ug/kg | |
| 93106055 | SR | VOA, EPA 8240 | TETRACHLOROETHENE | ND | 5 | ug/kg | |
| 93106055 | SR | VOA, EPA 8240 | TOLUENE | ND | 5 | ug/kg | |
| 93106055 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106055 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106055 | SR | VOA, EPA 8240 | TRICHLOROETHENE | 19 | 5 | ug/kg | |
| 93106055 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE | ND | 10 | ug/kg | |
| 93106055 | SR | VOA, EPA 8240 | TRICHLOROTRIFLUOROETHANE(FREON113) | ND | 10 | ug/kg | |
| 93106055 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 50 | ug/kg | |
| 93106055 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 10 | ug/kg | |
| 93106055 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 5 | ug/kg | |
| 93106056 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106056 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 5 | ug/kg | |
| 93106056 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106056 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106056 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 5 | ug/kg | |

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|---|---|---|---|---|---|---|---|
| 93106056 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106056 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106056 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 5 | ug/kg | |
| 93106056 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106056 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106056 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 100 | ug/kg | |
| 93106056 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 10 | ug/kg | |
| 93106056 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 50 | ug/kg | |
| 93106056 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 50 | ug/kg | |
| 93106056 | SR | VOA, EPA 8240 | ACETONE | ND | 100 | ug/kg | |
| 93106056 | SR | VOA, EPA 8240 | BENZENE | ND | 5 | ug/kg | |
| 93106056 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 5 | ug/kg | |
| 93106056 | SR | VOA, EPA 8240 | BROMOFORM | ND | 5 | ug/kg | |
| 93106056 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 10 | ug/kg | |
| 93106056 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 100 | ug/kg | |
| 93106056 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 5 | ug/kg | |
| 93106056 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 5 | ug/kg | |
| 93106056 | SR | VOA, EPA 8240 | CHLORODIBROMOMETHANE | ND | 5 | ug/kg | |
| 93106056 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 10 | ug/kg | |
| 93106056 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 5 | ug/kg | |
| 93106056 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 10 | ug/kg | |
| 93106056 | SR | VOA, EPA 8240 | CIS-1,2-DICHLOROETHYLENE | ND | 5 | ug/kg | |
| 93106056 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106056 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 5 | ug/kg | |
| 93106056 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | ND | 5 | ug/kg | |
| 93106056 | SR | VOA, EPA 8240 | STYRENE | ND | 5 | ug/kg | |
| 93106056 | SR | VOA, EPA 8240 | TETRACHLOROETHENE | ND | 5 | ug/kg | |
| 93106056 | SR | VOA, EPA 8240 | TOLUENE | ND | 5 | ug/kg | |
| 93106056 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106056 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106056 | SR | VOA, EPA 8240 | TRICHLOROETHENE | ND | 5 | ug/kg | |
| 93106056 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE | ND | 10 | ug/kg | |
| 93106056 | SR | VOA, EPA 8240 | TRICHLOROTRIFLUOROETHANE(FREON113) | ND | 10 | ug/kg | |
| 93106056 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 50 | ug/kg | |
| 93106056 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 10 | ug/kg | |
| 93106056 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 5 | ug/kg | |
| 93106058 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 0.5 | ug/kg | |
| 93106058 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 0.5 | ug/kg | |
| 93106058 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 0.5 | ug/kg | |
| 93106058 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 0.5 | ug/kg | |
| 93106058 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 0.5 | ug/kg | |
| 93106058 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 0.5 | ug/kg | |
| 93106058 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 0.5 | ug/kg | |
| 93106058 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 0.5 | ug/kg | |
| 93106058 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 0.5 | ug/kg | |
| 93106058 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 0.5 | ug/kg | |
| 93106058 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 10 | ug/kg | |
| 93106058 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 1 | ug/kg | |
| 93106058 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 5 | ug/kg | |
| 93106058 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 5 | ug/kg | |
| 93106058 | SR | VOA, EPA 8240 | ACETONE | ND | 10 | ug/kg | |
| 93106058 | SR | VOA, EPA 8240 | BENZENE | ND | 0.5 | ug/kg | |
| 93106058 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 0.5 | ug/kg | |
| 93106058 | SR | VOA, EPA 8240 | BROMOFORM | ND | 0.5 | ug/kg | |
| 93106058 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 1 | ug/kg | |
| 93106058 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 10 | ug/kg | |
| 93106058 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 0.5 | ug/kg | |
| 93106058 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 0.5 | ug/kg | |
| 93106058 | SR | VOA, EPA 8240 | CHLORODIBROMOMETHANE | ND | 0.5 | ug/kg | |
| 93106058 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 1 | ug/kg | |
| 93106058 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 0.5 | ug/kg | |
| 93106058 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 1 | ug/kg | |
| 93106058 | SR | VOA, EPA 8240 | CIS-1,2-DICHLOROETHYLENE | ND | 0.5 | ug/kg | |
| 93106058 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 0.5 | ug/kg | |
| 93106058 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 0.5 | ug/kg | |
| 93106058 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | ND | 0.5 | ug/kg | |
| 93106058 | SR | VOA, EPA 8240 | STYRENE | ND | 0.5 | ug/kg | |
| 93106058 | SR | VOA, EPA 8240 | TETRACHLOROETHENE | ND | 0.5 | ug/kg | |
| 93106058 | SR | VOA, EPA 8240 | TOLUENE | ND | 0.5 | ug/kg | |
| 93106058 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 0.5 | ug/kg | |
| 93106058 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 0.5 | ug/kg | |
| 93106058 | SR | VOA, EPA 8240 | TRICHLOROETHENE | ND | 0.5 | ug/kg | |
| 93106058 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE | ND | 1 | ug/kg | |
| 93106058 | SR | VOA, EPA 8240 | TRICHLOROTRIFLUOROETHANE(FREON113) | ND | 1 | ug/kg | |

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|---|---|---|---|---|---|---|---|
| 93106058 | SR | VOA, EPA 8240 | VINYL ACETATE | 2.5 | 5 | ug/kg | |
| 93106058 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 1 | ug/kg | |
| 93106058 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 0.5 | ug/kg | |
| 93106059 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106059 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 5 | ug/kg | |
| 93106059 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106059 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106059 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106059 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106059 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106059 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 5 | ug/kg | |
| 93106059 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106059 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106059 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 100 | ug/kg | |
| 93106059 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 10 | ug/kg | |
| 93106059 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 50 | ug/kg | |
| 93106059 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 50 | ug/kg | |
| 93106059 | SR | VOA, EPA 8240 | ACETONE | ND | 100 | ug/kg | |
| 93106059 | SR | VOA, EPA 8240 | BENZENE | ND | 5 | ug/kg | |
| 93106059 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 5 | ug/kg | |
| 93106059 | SR | VOA, EPA 8240 | BROMOFORM | ND | 5 | ug/kg | |
| 93106059 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 10 | ug/kg | |
| 93106059 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 100 | ug/kg | |
| 93106059 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 5 | ug/kg | |
| 93106059 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 5 | ug/kg | |
| 93106059 | SR | VOA, EPA 8240 | CHLORODIBROMOMETHANE | ND | 5 | ug/kg | |
| 93106059 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 10 | ug/kg | |
| 93106059 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 5 | ug/kg | |
| 93106059 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 10 | ug/kg | |
| 93106059 | SR | VOA, EPA 8240 | CIS-1,2-DICHLOROETHYLENE | 200 | 5 | ug/kg | |
| 93106059 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106059 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 5 | ug/kg | |
| 93106059 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | 7 | 5 | ug/kg | |
| 93106059 | SR | VOA, EPA 8240 | STYRENE | ND | 5 | ug/kg | |
| 93106059 | SR | VOA, EPA 8240 | TETRACHLOROETHENE | ND | 5 | ug/kg | |
| 93106059 | SR | VOA, EPA 8240 | TOLUENE | ND | 5 | ug/kg | |
| 93106059 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106059 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106059 | SR | VOA, EPA 8240 | TRICHLOROETHENE | 19 | 5 | ug/kg | |
| 93106059 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE | ND | 10 | ug/kg | |
| 93106059 | SR | VOA, EPA 8240 | TRICHLOROTRIFLUOROETHANE(FREON113) | ND | 10 | ug/kg | |
| 93106059 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 50 | ug/kg | |
| 93106059 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 10 | ug/kg | |
| 93106059 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 5 | ug/kg | |
| 93106060 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106060 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 5 | ug/kg | |
| 93106060 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106060 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106060 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106060 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106060 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106060 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 5 | ug/kg | |
| 93106060 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106060 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106060 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 100 | ug/kg | |
| 93106060 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 10 | ug/kg | |
| 93106060 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 50 | ug/kg | |
| 93106060 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 50 | ug/kg | |
| 93106060 | SR | VOA, EPA 8240 | ACETONE | ND | 100 | ug/kg | |
| 93106060 | SR | VOA, EPA 8240 | BENZENE | ND | 5 | ug/kg | |
| 93106060 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 5 | ug/kg | |
| 93106060 | SR | VOA, EPA 8240 | BROMOFORM | ND | 5 | ug/kg | |
| 93106060 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 10 | ug/kg | |
| 93106060 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 100 | ug/kg | |
| 93106060 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 5 | ug/kg | |
| 93106060 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 5 | ug/kg | |
| 93106060 | SR | VOA, EPA 8240 | CHLORODIBROMOMETHANE | ND | 5 | ug/kg | |
| 93106060 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 10 | ug/kg | |
| 93106060 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 5 | ug/kg | |
| 93106060 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 10 | ug/kg | |
| 93106060 | SR | VOA, EPA 8240 | CIS-1,2-DICHLOROETHYLENE | 40 | 5 | ug/kg | |
| 93106060 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106060 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 5 | ug/kg | |
| 93106060 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | ND | 5 | ug/kg | |

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|---|---|---|---|---|---|---|---|
| 93106060 | SR | VOA, EPA 8240 | STYRENE | ND | 5 | ug/kg | |
| 93106060 | SR | VOA, EPA 8240 | TETRACHLOROETHENE | ND | 5 | ug/kg | |
| 93106060 | SR | VOA, EPA 8240 | TOLUENE | ND | 5 | ug/kg | |
| 93106060 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106060 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106060 | SR | VOA, EPA 8240 | TRICHLOROETHENE | 9 | 5 | ug/kg | |
| 93106060 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE | ND | 10 | ug/kg | |
| 93106060 | SR | VOA, EPA 8240 | TRICHLOROTRIFLUOROETHANE(FREON113) | ND | 10 | ug/kg | |
| 93106060 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 50 | ug/kg | |
| 93106060 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 10 | ug/kg | |
| 93106060 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 5 | ug/kg | |
| 93106061 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106061 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 5 | ug/kg | |
| 93106061 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106061 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106061 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106061 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106061 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106061 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 5 | ug/kg | |
| 93106061 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106061 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106061 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 100 | ug/kg | |
| 93106061 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 10 | ug/kg | |
| 93106061 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 50 | ug/kg | |
| 93106061 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 50 | ug/kg | |
| 93106061 | SR | VOA, EPA 8240 | ACETONE | ND | 100 | ug/kg | |
| 93106061 | SR | VOA, EPA 8240 | BENZENE | ND | 5 | ug/kg | |
| 93106061 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 5 | ug/kg | |
| 93106061 | SR | VOA, EPA 8240 | BROMOFORM | ND | 5 | ug/kg | |
| 93106061 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 10 | ug/kg | |
| 93106061 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 100 | ug/kg | |
| 93106061 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 5 | ug/kg | |
| 93106061 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 5 | ug/kg | |
| 93106061 | SR | VOA, EPA 8240 | CHLORODIBROMOMETHANE | ND | 5 | ug/kg | |
| 93106061 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 10 | ug/kg | |
| 93106061 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 5 | ug/kg | |
| 93106061 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 10 | ug/kg | |
| 93106061 | SR | VOA, EPA 8240 | CIS-1,2-DICHLOROETHYLENE | ND | 5 | ug/kg | |
| 93106061 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106061 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 5 | ug/kg | |
| 93106061 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | ND | 5 | ug/kg | |
| 93106061 | SR | VOA, EPA 8240 | STYRENE | ND | 5 | ug/kg | |
| 93106061 | SR | VOA, EPA 8240 | TETRACHLOROETHENE | ND | 5 | ug/kg | |
| 93106061 | SR | VOA, EPA 8240 | TOLUENE | ND | 5 | ug/kg | |
| 93106061 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106061 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106061 | SR | VOA, EPA 8240 | TRICHLOROETHENE | ND | 5 | ug/kg | |
| 93106061 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE | ND | 10 | ug/kg | |
| 93106061 | SR | VOA, EPA 8240 | TRICHLOROTRIFLUOROETHANE(FREON113) | ND | 10 | ug/kg | |
| 93106061 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 50 | ug/kg | |
| 93106061 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 10 | ug/kg | |
| 93106061 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 5 | ug/kg | |
| 93106063 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 5.1 | ug/kg | |
| 93106063 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 5.1 | ug/kg | |
| 93106063 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 5.1 | ug/kg | |
| 93106063 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 5.1 | ug/kg | |
| 93106063 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 5.1 | ug/kg | |
| 93106063 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 5.1 | ug/kg | |
| 93106063 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 5.1 | ug/kg | |
| 93106063 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 5.1 | ug/kg | |
| 93106063 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 5.1 | ug/kg | |
| 93106063 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 5.1 | ug/kg | |
| 93106063 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 10 | ug/kg | |
| 93106063 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 10 | ug/kg | |
| 93106063 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 10 | ug/kg | |
| 93106063 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 10 | ug/kg | |
| 93106063 | SR | VOA, EPA 8240 | ACETONE | ND | 5.1 | ug/kg | |
| 93106063 | SR | VOA, EPA 8240 | BENZENE | ND | 5.1 | ug/kg | |
| 93106063 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 5.1 | ug/kg | |
| 93106063 | SR | VOA, EPA 8240 | BROMOFORM | ND | 5.1 | ug/kg | |
| 93106063 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 5.1 | ug/kg | |
| 93106063 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 5.1 | ug/kg | |
| 93106063 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 5.1 | ug/kg | |
| 93106063 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 5.1 | ug/kg | |

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|---|---|---|---|---|---|---|---|
| 93106063 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 5.1 | ug/kg | |
| 93106063 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 5.1 | ug/kg | |
| 93106063 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 5.1 | ug/kg | |
| 93106063 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 5.1 | ug/kg | |
| 93106063 | SR | VOA, EPA 8240 | DIBROMOCHLOROMETHANE | ND | 5.1 | ug/kg | |
| 93106063 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 5.1 | ug/kg | |
| 93106063 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | 7 | 5.1 | ug/kg | |
| 93106063 | SR | VOA, EPA 8240 | STYRENE | ND | 5.1 | ug/kg | |
| 93106063 | SR | VOA, EPA 8240 | TETRACHLOROETHENE | ND | 5.1 | ug/kg | |
| 93106063 | SR | VOA, EPA 8240 | TOLUENE | ND | 5.1 | ug/kg | |
| 93106063 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 5.1 | ug/kg | |
| 93106063 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 5.1 | ug/kg | |
| 93106063 | SR | VOA, EPA 8240 | TRICHLOROETHENE | ND | 5.1 | ug/kg | |
| 93106063 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE | ND | 5.1 | ug/kg | |
| 93106063 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 10 | ug/kg | |
| 93106063 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 5.1 | ug/kg | |
| 93106063 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 5.1 | ug/kg | |
| 93106064 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106064 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 5 | ug/kg | |
| 93106064 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106064 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106064 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106064 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106064 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106064 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 5 | ug/kg | |
| 93106064 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106064 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106064 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 100 | ug/kg | |
| 93106064 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 10 | ug/kg | |
| 93106064 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 50 | ug/kg | |
| 93106064 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 50 | ug/kg | |
| 93106064 | SR | VOA, EPA 8240 | ACETONE | ND | 100 | ug/kg | |
| 93106064 | SR | VOA, EPA 8240 | BENZENE | ND | 5 | ug/kg | |
| 93106064 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 5 | ug/kg | |
| 93106064 | SR | VOA, EPA 8240 | BROMOFORM | ND | 5 | ug/kg | |
| 93106064 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 10 | ug/kg | |
| 93106064 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 100 | ug/kg | |
| 93106064 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 5 | ug/kg | |
| 93106064 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 5 | ug/kg | |
| 93106064 | SR | VOA, EPA 8240 | CHLORODIBROMOMETHANE | ND | 5 | ug/kg | |
| 93106064 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 10 | ug/kg | |
| 93106064 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 5 | ug/kg | |
| 93106064 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 10 | ug/kg | |
| 93106064 | SR | VOA, EPA 8240 | CIS-1,2-DICHLOROETHYLENE | ND | 5 | ug/kg | |
| 93106064 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106064 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 5 | ug/kg | |
| 93106064 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | ND | 5 | ug/kg | |
| 93106064 | SR | VOA, EPA 8240 | STYRENE | ND | 5 | ug/kg | |
| 93106064 | SR | VOA, EPA 8240 | TETRACHLOROETHENE | ND | 5 | ug/kg | |
| 93106064 | SR | VOA, EPA 8240 | TOLUENE | ND | 5 | ug/kg | |
| 93106064 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106064 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106064 | SR | VOA, EPA 8240 | TRICHLOROETHENE | ND | 5 | ug/kg | |
| 93106064 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE | ND | 10 | ug/kg | |
| 93106064 | SR | VOA, EPA 8240 | TRICHLOROTRIFLUOROETHANE(FREON113) | ND | 10 | ug/kg | |
| 93106064 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 50 | ug/kg | |
| 93106064 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 10 | ug/kg | |
| 93106064 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 5 | ug/kg | |
| 93106065 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106065 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 5 | ug/kg | |
| 93106065 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106065 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106065 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106065 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106065 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106065 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 5 | ug/kg | |
| 93106065 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106065 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106065 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 100 | ug/kg | |
| 93106065 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 10 | ug/kg | |
| 93106065 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 50 | ug/kg | |
| 93106065 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 50 | ug/kg | |
| 93106065 | SR | VOA, EPA 8240 | ACETONE | ND | 100 | ug/kg | |
| 93106065 | SR | VOA, EPA 8240 | BENZENE | ND | 5 | ug/kg | |

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|---|---|---|---|---|---|---|---|
| 93106065 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 5 | ug/kg | |
| 93106065 | SR | VOA, EPA 8240 | BROMOFORM | ND | 5 | ug/kg | |
| 93106065 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 10 | ug/kg | |
| 93106065 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 100 | ug/kg | |
| 93106065 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 5 | ug/kg | |
| 93106065 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 5 | ug/kg | |
| 93106065 | SR | VOA, EPA 8240 | CHLORODIBROMOMETHANE | ND | 5 | ug/kg | |
| 93106065 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 10 | ug/kg | |
| 93106065 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 5 | ug/kg | |
| 93106065 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 10 | ug/kg | |
| 93106065 | SR | VOA, EPA 8240 | CIS-1,2-DICHLOROETHYLENE | ND | 5 | ug/kg | |
| 93106065 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106065 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 5 | ug/kg | |
| 93106065 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | ND | 5 | ug/kg | |
| 93106065 | SR | VOA, EPA 8240 | STYRENE | ND | 5 | ug/kg | |
| 93106065 | SR | VOA, EPA 8240 | TETRACHLOROETHENE | ND | 5 | ug/kg | |
| 93106065 | SR | VOA, EPA 8240 | TOLUENE | ND | 5 | ug/kg | |
| 93106065 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106065 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106065 | SR | VOA, EPA 8240 | TRICHLOROETHENE | ND | 5 | ug/kg | |
| 93106065 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE | ND | 10 | ug/kg | |
| 93106065 | SR | VOA, EPA 8240 | TRICHLOROTRIFLUOROETHANE(FREON113) | ND | 10 | ug/kg | |
| 93106065 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 50 | ug/kg | |
| 93106065 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 10 | ug/kg | |
| 93106065 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 5 | ug/kg | |
| 93106066 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106066 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 5 | ug/kg | |
| 93106066 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106066 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106066 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106066 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106066 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106066 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 5 | ug/kg | |
| 93106066 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106066 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106066 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 100 | ug/kg | |
| 93106066 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 10 | ug/kg | |
| 93106066 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 50 | ug/kg | |
| 93106066 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 50 | ug/kg | |
| 93106066 | SR | VOA, EPA 8240 | ACETONE | ND | 100 | ug/kg | |
| 93106066 | SR | VOA, EPA 8240 | BENZENE | ND | 5 | ug/kg | |
| 93106066 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 5 | ug/kg | |
| 93106066 | SR | VOA, EPA 8240 | BROMOFORM | ND | 5 | ug/kg | |
| 93106066 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 10 | ug/kg | |
| 93106066 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 100 | ug/kg | |
| 93106066 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 5 | ug/kg | |
| 93106066 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 5 | ug/kg | |
| 93106066 | SR | VOA, EPA 8240 | CHLORODIBROMOMETHANE | ND | 5 | ug/kg | |
| 93106066 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 10 | ug/kg | |
| 93106066 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 5 | ug/kg | |
| 93106066 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 10 | ug/kg | |
| 93106066 | SR | VOA, EPA 8240 | CIS-1,2-DICHLOROETHYLENE | ND | 5 | ug/kg | |
| 93106066 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106066 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 5 | ug/kg | |
| 93106066 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | ND | 5 | ug/kg | |
| 93106066 | SR | VOA, EPA 8240 | STYRENE | ND | 5 | ug/kg | |
| 93106066 | SR | VOA, EPA 8240 | TETRACHLOROETHENE | ND | 5 | ug/kg | |
| 93106066 | SR | VOA, EPA 8240 | TOLUENE | ND | 5 | ug/kg | |
| 93106066 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106066 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106066 | SR | VOA, EPA 8240 | TRICHLOROETHENE | ND | 5 | ug/kg | |
| 93106066 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE | ND | 10 | ug/kg | |
| 93106066 | SR | VOA, EPA 8240 | TRICHLOROTRIFLUOROETHANE(FREON113) | ND | 10 | ug/kg | |
| 93106066 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 50 | ug/kg | |
| 93106066 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 10 | ug/kg | |
| 93106066 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 5 | ug/kg | |
| 93106067 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106067 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 5 | ug/kg | |
| 93106067 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106067 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106067 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106067 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106067 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106067 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 5 | ug/kg | |

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|---|---|---|---|---|---|---|---|
| 93106067 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106067 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106067 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 100 | ug/kg | |
| 93106067 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 10 | ug/kg | |
| 93106067 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 50 | ug/kg | |
| 93106067 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 50 | ug/kg | |
| 93106067 | SR | VOA, EPA 8240 | ACETONE | ND | 100 | ug/kg | |
| 93106067 | SR | VOA, EPA 8240 | BENZENE | ND | 5 | ug/kg | |
| 93106067 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 5 | ug/kg | |
| 93106067 | SR | VOA, EPA 8240 | BROMOFORM | ND | 5 | ug/kg | |
| 93106067 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 10 | ug/kg | |
| 93106067 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 100 | ug/kg | |
| 93106067 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 5 | ug/kg | |
| 93106067 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 5 | ug/kg | |
| 93106067 | SR | VOA, EPA 8240 | CHLORODIBROMOMETHANE | ND | 5 | ug/kg | |
| 93106067 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 10 | ug/kg | |
| 93106067 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 5 | ug/kg | |
| 93106067 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 10 | ug/kg | |
| 93106067 | SR | VOA, EPA 8240 | CIS-1,2-DICHLOROETHYLENE | ND | 5 | ug/kg | |
| 93106067 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106067 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 5 | ug/kg | |
| 93106067 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | ND | 5 | ug/kg | |
| 93106067 | SR | VOA, EPA 8240 | STYRENE | ND | 5 | ug/kg | |
| 93106067 | SR | VOA, EPA 8240 | TETRACHLOROETHENE | ND | 5 | ug/kg | |
| 93106067 | SR | VOA, EPA 8240 | TOLUENE | ND | 5 | ug/kg | |
| 93106067 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106067 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106067 | SR | VOA, EPA 8240 | TRICHLOROETHENE | ND | 5 | ug/kg | |
| 93106067 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE | ND | 10 | ug/kg | |
| 93106067 | SR | VOA, EPA 8240 | TRICHLOROTRIFLUOROETHANE(FREON113) | ND | 10 | ug/kg | |
| 93106067 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 50 | ug/kg | |
| 93106067 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 10 | ug/kg | |
| 93106067 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 5 | ug/kg | |
| 93106068 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 0.5 | ug/kg | |
| 93106068 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 0.5 | ug/kg | |
| 93106068 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 0.5 | ug/kg | |
| 93106068 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 0.5 | ug/kg | |
| 93106068 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 0.5 | ug/kg | |
| 93106068 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 0.5 | ug/kg | |
| 93106068 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 0.5 | ug/kg | |
| 93106068 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 0.5 | ug/kg | |
| 93106068 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 0.5 | ug/kg | |
| 93106068 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 0.5 | ug/kg | |
| 93106068 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 10 | ug/kg | |
| 93106068 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 1 | ug/kg | |
| 93106068 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 5 | ug/kg | |
| 93106068 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 5 | ug/kg | |
| 93106068 | SR | VOA, EPA 8240 | ACETONE | ND | 10 | ug/kg | |
| 93106068 | SR | VOA, EPA 8240 | BENZENE | ND | 0.5 | ug/kg | |
| 93106068 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 0.5 | ug/kg | |
| 93106068 | SR | VOA, EPA 8240 | BROMOFORM | ND | 0.5 | ug/kg | |
| 93106068 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 1 | ug/kg | |
| 93106068 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 10 | ug/kg | |
| 93106068 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 0.5 | ug/kg | |
| 93106068 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 0.5 | ug/kg | |
| 93106068 | SR | VOA, EPA 8240 | CHLORODIBROMOMETHANE | ND | 0.5 | ug/kg | |
| 93106068 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 1 | ug/kg | |
| 93106068 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 0.5 | ug/kg | |
| 93106068 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 1 | ug/kg | |
| 93106068 | SR | VOA, EPA 8240 | CIS-1,2-DICHLOROETHYLENE | ND | 0.5 | ug/kg | |
| 93106068 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 0.5 | ug/kg | |
| 93106068 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 0.5 | ug/kg | |
| 93106068 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | ND | 0.5 | ug/kg | |
| 93106068 | SR | VOA, EPA 8240 | STYRENE | ND | 0.5 | ug/kg | |
| 93106068 | SR | VOA, EPA 8240 | TETRACHLOROETHENE | ND | 0.5 | ug/kg | |
| 93106068 | SR | VOA, EPA 8240 | TOLUENE | ND | 0.5 | ug/kg | |
| 93106068 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 0.5 | ug/kg | |
| 93106068 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 0.5 | ug/kg | |
| 93106068 | SR | VOA, EPA 8240 | TRICHLOROETHENE | ND | 0.5 | ug/kg | |
| 93106068 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE | ND | 1 | ug/kg | |
| 93106068 | SR | VOA, EPA 8240 | TRICHLOROTRIFLUOROETHANE(FREON113) | ND | 1 | ug/kg | |
| 93106068 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 5 | ug/kg | |
| 93106068 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 1 | ug/kg | |
| 93106068 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 0.5 | ug/kg | |

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|---|---|---|---|---|---|---|---|
| 93106069 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106069 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 5 | ug/kg | |
| 93106069 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106069 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106069 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106069 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106069 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106069 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 5 | ug/kg | |
| 93106069 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106069 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106069 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 100 | ug/kg | |
| 93106069 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 10 | ug/kg | |
| 93106069 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 50 | ug/kg | |
| 93106069 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 50 | ug/kg | |
| 93106069 | SR | VOA, EPA 8240 | ACETONE | ND | 100 | ug/kg | |
| 93106069 | SR | VOA, EPA 8240 | BENZENE | ND | 5 | ug/kg | |
| 93106069 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 5 | ug/kg | |
| 93106069 | SR | VOA, EPA 8240 | BROMOFORM | ND | 5 | ug/kg | |
| 93106069 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 10 | ug/kg | |
| 93106069 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 100 | ug/kg | |
| 93106069 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 5 | ug/kg | |
| 93106069 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 5 | ug/kg | |
| 93106069 | SR | VOA, EPA 8240 | CHLORODIBROMOMETHANE | ND | 5 | ug/kg | |
| 93106069 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 10 | ug/kg | |
| 93106069 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 5 | ug/kg | |
| 93106069 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 10 | ug/kg | |
| 93106069 | SR | VOA, EPA 8240 | CIS-1,2-DICHLOROETHYLENE | ND | 5 | ug/kg | |
| 93106069 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106069 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 5 | ug/kg | |
| 93106069 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | ND | 5 | ug/kg | |
| 93106069 | SR | VOA, EPA 8240 | STYRENE | ND | 5 | ug/kg | |
| 93106069 | SR | VOA, EPA 8240 | TETRACHLOROETHENE | ND | 5 | ug/kg | |
| 93106069 | SR | VOA, EPA 8240 | TOLUENE | ND | 5 | ug/kg | |
| 93106069 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106069 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106069 | SR | VOA, EPA 8240 | TRICHLOROETHENE | ND | 5 | ug/kg | |
| 93106069 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE | ND | 10 | ug/kg | |
| 93106069 | SR | VOA, EPA 8240 | TRICHLOROTRIFLUOROETHANE(FREON113) | ND | 10 | ug/kg | |
| 93106069 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 50 | ug/kg | |
| 93106069 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 10 | ug/kg | |
| 93106069 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 5 | ug/kg | |
| 93106071 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106071 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 5 | ug/kg | |
| 93106071 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106071 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106071 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106071 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106071 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106071 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 5 | ug/kg | |
| 93106071 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106071 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106071 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 100 | ug/kg | |
| 93106071 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 10 | ug/kg | |
| 93106071 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 50 | ug/kg | |
| 93106071 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 50 | ug/kg | |
| 93106071 | SR | VOA, EPA 8240 | ACETONE | ND | 100 | ug/kg | |
| 93106071 | SR | VOA, EPA 8240 | BENZENE | ND | 5 | ug/kg | |
| 93106071 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 5 | ug/kg | |
| 93106071 | SR | VOA, EPA 8240 | BROMOFORM | ND | 5 | ug/kg | |
| 93106071 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 10 | ug/kg | |
| 93106071 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 100 | ug/kg | |
| 93106071 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 5 | ug/kg | |
| 93106071 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 5 | ug/kg | |
| 93106071 | SR | VOA, EPA 8240 | CHLORODIBROMOMETHANE | ND | 5 | ug/kg | |
| 93106071 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 10 | ug/kg | |
| 93106071 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 5 | ug/kg | |
| 93106071 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 10 | ug/kg | |
| 93106071 | SR | VOA, EPA 8240 | CIS-1,2-DICHLOROETHYLENE | ND | 5 | ug/kg | |
| 93106071 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106071 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 5 | ug/kg | |
| 93106071 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | ND | 5 | ug/kg | |
| 93106071 | SR | VOA, EPA 8240 | STYRENE | ND | 5 | ug/kg | |
| 93106071 | SR | VOA, EPA 8240 | TETRACHLOROETHENE | ND | 5 | ug/kg | |
| 93106071 | SR | VOA, EPA 8240 | TOLUENE | ND | 5 | ug/kg | |

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|---|---|---|---|---|---|---|---|
| 93106071 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106071 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106071 | SR | VOA, EPA 8240 | TRICHLOROETHENE | ND | 5 | ug/kg | |
| 93106071 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE | ND | 10 | ug/kg | |
| 93106071 | SR | VOA, EPA 8240 | TRICHLOROTRIFLUOROETHANE(FREON113) | ND | 10 | ug/kg | |
| 93106071 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 50 | ug/kg | |
| 93106071 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 10 | ug/kg | |
| 93106071 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 5 | ug/kg | |
| 93106072 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106072 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 5 | ug/kg | |
| 93106072 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106072 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106072 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106072 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106072 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106072 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 5 | ug/kg | |
| 93106072 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106072 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106072 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 100 | ug/kg | |
| 93106072 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 10 | ug/kg | |
| 93106072 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 50 | ug/kg | |
| 93106072 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 50 | ug/kg | |
| 93106072 | SR | VOA, EPA 8240 | ACETONE | ND | 100 | ug/kg | |
| 93106072 | SR | VOA, EPA 8240 | BENZENE | ND | 5 | ug/kg | |
| 93106072 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 5 | ug/kg | |
| 93106072 | SR | VOA, EPA 8240 | BROMOFORM | ND | 5 | ug/kg | |
| 93106072 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 10 | ug/kg | |
| 93106072 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 100 | ug/kg | |
| 93106072 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 5 | ug/kg | |
| 93106072 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 5 | ug/kg | |
| 93106072 | SR | VOA, EPA 8240 | CHLORODIBROMOMETHANE | ND | 5 | ug/kg | |
| 93106072 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 10 | ug/kg | |
| 93106072 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 5 | ug/kg | |
| 93106072 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 10 | ug/kg | |
| 93106072 | SR | VOA, EPA 8240 | CIS-1,2-DICHLOROETHYLENE | ND | 5 | ug/kg | |
| 93106072 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106072 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 5 | ug/kg | |
| 93106072 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | ND | 5 | ug/kg | |
| 93106072 | SR | VOA, EPA 8240 | STYRENE | ND | 5 | ug/kg | |
| 93106072 | SR | VOA, EPA 8240 | TETRACHLOROETHENE | ND | 5 | ug/kg | |
| 93106072 | SR | VOA, EPA 8240 | TOLUENE | ND | 5 | ug/kg | |
| 93106072 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106072 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106072 | SR | VOA, EPA 8240 | TRICHLOROETHENE | ND | 5 | ug/kg | |
| 93106072 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE | ND | 10 | ug/kg | |
| 93106072 | SR | VOA, EPA 8240 | TRICHLOROTRIFLUOROETHANE(FREON113) | ND | 10 | ug/kg | |
| 93106072 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 50 | ug/kg | |
| 93106072 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 10 | ug/kg | |
| 93106072 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 5 | ug/kg | |
| 93106049 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106049 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 5 | ug/kg | |
| 93106049 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106049 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106049 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106049 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106049 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106049 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 5 | ug/kg | |
| 93106049 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106049 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106049 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 100 | ug/kg | |
| 93106049 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 10 | ug/kg | |
| 93106049 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 50 | ug/kg | |
| 93106049 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 50 | ug/kg | |
| 93106049 | SR | VOA, EPA 8240 | ACETONE | ND | 100 | ug/kg | |
| 93106049 | SR | VOA, EPA 8240 | BENZENE | ND | 5 | ug/kg | |
| 93106049 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 5 | ug/kg | |
| 93106049 | SR | VOA, EPA 8240 | BROMOFORM | ND | 5 | ug/kg | |
| 93106049 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 10 | ug/kg | |
| 93106049 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 100 | ug/kg | |
| 93106049 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 5 | ug/kg | |
| 93106049 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 5 | ug/kg | |
| 93106049 | SR | VOA, EPA 8240 | CHLORODIBROMOMETHANE | ND | 5 | ug/kg | |
| 93106049 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 10 | ug/kg | |
| 93106049 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 5 | ug/kg | |

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|---|---|---|---|---|---|---|---|
| 93106049 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 10 | ug/kg | |
| 93106049 | SR | VOA, EPA 8240 | CIS-1,2-DICHLOROETHYLENE | ND | 5 | ug/kg | |
| 93106049 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106049 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 5 | ug/kg | |
| 93106049 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | 17 | 5 | ug/kg | |
| 93106049 | SR | VOA, EPA 8240 | STYRENE | ND | 5 | ug/kg | |
| 93106049 | SR | VOA, EPA 8240 | TETRACHLOROETHENE | ND | 5 | ug/kg | |
| 93106049 | SR | VOA, EPA 8240 | TOLUENE | ND | 5 | ug/kg | |
| 93106049 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106049 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106049 | SR | VOA, EPA 8240 | TRICHLOROETHENE | ND | 5 | ug/kg | |
| 93106049 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE | ND | 10 | ug/kg | |
| 93106049 | SR | VOA, EPA 8240 | TRICHLOROTRIFLUOROETHANE(FREON113) | ND | 10 | ug/kg | |
| 93106049 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 50 | ug/kg | |
| 93106049 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 10 | ug/kg | |
| 93106049 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 5 | ug/kg | |
| 93106070 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106070 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 5 | ug/kg | |
| 93106070 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106070 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106070 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106070 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106070 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106070 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 5 | ug/kg | |
| 93106070 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106070 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106070 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 100 | ug/kg | |
| 93106070 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 10 | ug/kg | |
| 93106070 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 50 | ug/kg | |
| 93106070 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 50 | ug/kg | |
| 93106070 | SR | VOA, EPA 8240 | ACETONE | ND | 100 | ug/kg | |
| 93106070 | SR | VOA, EPA 8240 | BENZENE | ND | 5 | ug/kg | |
| 93106070 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 5 | ug/kg | |
| 93106070 | SR | VOA, EPA 8240 | BROMOFORM | ND | 5 | ug/kg | |
| 93106070 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 10 | ug/kg | |
| 93106070 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 100 | ug/kg | |
| 93106070 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 5 | ug/kg | |
| 93106070 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 5 | ug/kg | |
| 93106070 | SR | VOA, EPA 8240 | CHLORODIBROMOMETHANE | ND | 5 | ug/kg | |
| 93106070 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 10 | ug/kg | |
| 93106070 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 5 | ug/kg | |
| 93106070 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 10 | ug/kg | |
| 93106070 | SR | VOA, EPA 8240 | CIS-1,2-DICHLOROETHYLENE | ND | 5 | ug/kg | |
| 93106070 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106070 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 5 | ug/kg | |
| 93106070 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | ND | 5 | ug/kg | |
| 93106070 | SR | VOA, EPA 8240 | STYRENE | ND | 5 | ug/kg | |
| 93106070 | SR | VOA, EPA 8240 | TETRACHLOROETHENE | ND | 5 | ug/kg | |
| 93106070 | SR | VOA, EPA 8240 | TOLUENE | ND | 5 | ug/kg | |
| 93106070 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106070 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106070 | SR | VOA, EPA 8240 | TRICHLOROETHENE | ND | 5 | ug/kg | |
| 93106070 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE | ND | 10 | ug/kg | |
| 93106070 | SR | VOA, EPA 8240 | TRICHLOROTRIFLUOROETHANE(FREON113) | ND | 10 | ug/kg | |
| 93106070 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 50 | ug/kg | |
| 93106070 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 10 | ug/kg | |
| 93106070 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 5 | ug/kg | |
| 93106073 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 0.5 | ug/kg | |
| 93106073 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 0.5 | ug/kg | |
| 93106073 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 0.5 | ug/kg | |
| 93106073 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 0.5 | ug/kg | |
| 93106073 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 0.5 | ug/kg | |
| 93106073 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 0.5 | ug/kg | |
| 93106073 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 0.5 | ug/kg | |
| 93106073 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 0.5 | ug/kg | |
| 93106073 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 0.5 | ug/kg | |
| 93106073 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 0.5 | ug/kg | |
| 93106073 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 10 | ug/kg | |
| 93106073 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 1 | ug/kg | |
| 93106073 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 5 | ug/kg | |
| 93106073 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 5 | ug/kg | |
| 93106073 | SR | VOA, EPA 8240 | ACETONE | ND | 10 | ug/kg | |
| 93106073 | SR | VOA, EPA 8240 | BENZENE | ND | 0.5 | ug/kg | |
| 93106073 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 0.5 | ug/kg | |

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|---|---|---|---|---|---|---|---|
| 93106073 | SR | VOA, EPA 8240 | BROMOFORM | ND | 0.5 | ug/kg | |
| 93106073 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 1 | ug/kg | |
| 93106073 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 10 | ug/kg | |
| 93106073 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 0.5 | ug/kg | |
| 93106073 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 0.5 | ug/kg | |
| 93106073 | SR | VOA, EPA 8240 | CHLORODIBROMOMETHANE | ND | 0.5 | ug/kg | |
| 93106073 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 1 | ug/kg | |
| 93106073 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 0.5 | ug/kg | |
| 93106073 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 1 | ug/kg | |
| 93106073 | SR | VOA, EPA 8240 | CIS-1,2-DICHLOROETHYLENE | ND | 0.5 | ug/kg | |
| 93106073 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 0.5 | ug/kg | |
| 93106073 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 0.5 | ug/kg | |
| 93106073 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | ND | 0.5 | ug/kg | |
| 93106073 | SR | VOA, EPA 8240 | STYRENE | ND | 0.5 | ug/kg | |
| 93106073 | SR | VOA, EPA 8240 | TETRACHLOROETHENE | ND | 0.5 | ug/kg | |
| 93106073 | SR | VOA, EPA 8240 | TOLUENE | ND | 0.5 | ug/kg | |
| 93106073 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 0.5 | ug/kg | |
| 93106073 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 0.5 | ug/kg | |
| 93106073 | SR | VOA, EPA 8240 | TRICHLOROETHENE | ND | 0.5 | ug/kg | |
| 93106073 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE | ND | 1 | ug/kg | |
| 93106073 | SR | VOA, EPA 8240 | TRICHLOROTRIFLUOROETHANE(FREON113) | ND | 1 | ug/kg | |
| 93106073 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 5 | ug/kg | |
| 93106073 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 1 | ug/kg | |
| 93106073 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 0.5 | ug/kg | |
| 93106074 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106074 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 5 | ug/kg | |
| 93106074 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106074 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106074 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106074 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106074 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106074 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 5 | ug/kg | |
| 93106074 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106074 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106074 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 100 | ug/kg | |
| 93106074 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 10 | ug/kg | |
| 93106074 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 50 | ug/kg | |
| 93106074 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 50 | ug/kg | |
| 93106074 | SR | VOA, EPA 8240 | ACETONE | ND | 100 | ug/kg | |
| 93106074 | SR | VOA, EPA 8240 | BENZENE | ND | 5 | ug/kg | |
| 93106074 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 5 | ug/kg | |
| 93106074 | SR | VOA, EPA 8240 | BROMOFORM | ND | 5 | ug/kg | |
| 93106074 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 10 | ug/kg | |
| 93106074 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 100 | ug/kg | |
| 93106074 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 5 | ug/kg | |
| 93106074 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 5 | ug/kg | |
| 93106074 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 10 | ug/kg | |
| 93106074 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 5 | ug/kg | |
| 93106074 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 10 | ug/kg | |
| 93106074 | SR | VOA, EPA 8240 | CIS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106074 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106074 | SR | VOA, EPA 8240 | DIBROMOCHLOROMETHANE | ND | 5 | ug/kg | |
| 93106074 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 5 | ug/kg | |
| 93106074 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | ND | 5 | ug/kg | |
| 93106074 | SR | VOA, EPA 8240 | STYRENE | ND | 5 | ug/kg | |
| 93106074 | SR | VOA, EPA 8240 | TETRACHLOROETHENE | ND | 5 | ug/kg | |
| 93106074 | SR | VOA, EPA 8240 | TOLUENE | ND | 5 | ug/kg | |
| 93106074 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106074 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106074 | SR | VOA, EPA 8240 | TRICHLOROETHENE | ND | 5 | ug/kg | |
| 93106074 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE | ND | 10 | ug/kg | |
| 93106074 | SR | VOA, EPA 8240 | TRICHLOROTRIFLUOROETHANE(CFC 113) | ND | 10 | ug/kg | |
| 93106074 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 50 | ug/kg | |
| 93106074 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 10 | ug/kg | |
| 93106074 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 5 | ug/kg | |
| 93106075 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106075 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 5 | ug/kg | |
| 93106075 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106075 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106075 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106075 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106075 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106075 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 5 | ug/kg | |
| 93106075 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 5 | ug/kg | |

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|---|---|---|---|---|---|---|---|
| 93106075 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106075 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 100 | ug/kg | |
| 93106075 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 10 | ug/kg | |
| 93106075 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 50 | ug/kg | |
| 93106075 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 50 | ug/kg | |
| 93106075 | SR | VOA, EPA 8240 | ACETONE | ND | 100 | ug/kg | |
| 93106075 | SR | VOA, EPA 8240 | BENZENE | ND | 5 | ug/kg | |
| 93106075 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 5 | ug/kg | |
| 93106075 | SR | VOA, EPA 8240 | BROMOFORM | ND | 5 | ug/kg | |
| 93106075 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 10 | ug/kg | |
| 93106075 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 100 | ug/kg | |
| 93106075 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 5 | ug/kg | |
| 93106075 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 5 | ug/kg | |
| 93106075 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 10 | ug/kg | |
| 93106075 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 5 | ug/kg | |
| 93106075 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 10 | ug/kg | |
| 93106075 | SR | VOA, EPA 8240 | CIS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106075 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106075 | SR | VOA, EPA 8240 | DIBROMOCHLOROMETHANE | ND | 5 | ug/kg | |
| 93106075 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 5 | ug/kg | |
| 93106075 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | ND | 5 | ug/kg | |
| 93106075 | SR | VOA, EPA 8240 | STYRENE | ND | 5 | ug/kg | |
| 93106075 | SR | VOA, EPA 8240 | TETRACHLOROETHENE | ND | 5 | ug/kg | |
| 93106075 | SR | VOA, EPA 8240 | TOLUENE | ND | 5 | ug/kg | |
| 93106075 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106075 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106075 | SR | VOA, EPA 8240 | TRICHLOROETHENE | ND | 5 | ug/kg | |
| 93106075 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE | ND | 10 | ug/kg | |
| 93106075 | SR | VOA, EPA 8240 | TRICHLOROTRIFLUOROETHANE(CFC 113) | ND | 10 | ug/kg | |
| 93106075 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 50 | ug/kg | |
| 93106075 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 10 | ug/kg | |
| 93106075 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 5 | ug/kg | |
| 93106076 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106076 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 5 | ug/kg | |
| 93106076 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106076 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106076 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106076 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106076 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106076 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 5 | ug/kg | |
| 93106076 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106076 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106076 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 100 | ug/kg | |
| 93106076 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 10 | ug/kg | |
| 93106076 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 50 | ug/kg | |
| 93106076 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 50 | ug/kg | |
| 93106076 | SR | VOA, EPA 8240 | ACETONE | ND | 100 | ug/kg | |
| 93106076 | SR | VOA, EPA 8240 | BENZENE | ND | 5 | ug/kg | |
| 93106076 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 5 | ug/kg | |
| 93106076 | SR | VOA, EPA 8240 | BROMOFORM | ND | 5 | ug/kg | |
| 93106076 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 10 | ug/kg | |
| 93106076 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 100 | ug/kg | |
| 93106076 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 5 | ug/kg | |
| 93106076 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 5 | ug/kg | |
| 93106076 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 10 | ug/kg | |
| 93106076 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 5 | ug/kg | |
| 93106076 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 10 | ug/kg | |
| 93106076 | SR | VOA, EPA 8240 | CIS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106076 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106076 | SR | VOA, EPA 8240 | DIBROMOCHLOROMETHANE | ND | 5 | ug/kg | |
| 93106076 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 5 | ug/kg | |
| 93106076 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | ND | 5 | ug/kg | |
| 93106076 | SR | VOA, EPA 8240 | STYRENE | ND | 5 | ug/kg | |
| 93106076 | SR | VOA, EPA 8240 | TETRACHLOROETHENE | ND | 5 | ug/kg | |
| 93106076 | SR | VOA, EPA 8240 | TOLUENE | ND | 5 | ug/kg | |
| 93106076 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106076 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106076 | SR | VOA, EPA 8240 | TRICHLOROETHENE | ND | 5 | ug/kg | |
| 93106076 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE | ND | 10 | ug/kg | |
| 93106076 | SR | VOA, EPA 8240 | TRICHLOROTRIFLUOROETHANE(CFC 113) | ND | 10 | ug/kg | |
| 93106076 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 50 | ug/kg | |
| 93106076 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 10 | ug/kg | |
| 93106076 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 5 | ug/kg | |
| 93106077 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 5.2 | ug/kg | |

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|---|---|---|---|---|---|---|---|
| 93106077 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 5.2 | ug/kg | |
| 93106077 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 5.2 | ug/kg | |
| 93106077 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 5.2 | ug/kg | |
| 93106077 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 5.2 | ug/kg | |
| 93106077 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 5.2 | ug/kg | |
| 93106077 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 5.2 | ug/kg | |
| 93106077 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 5.2 | ug/kg | |
| 93106077 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 5.2 | ug/kg | |
| 93106077 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 5.2 | ug/kg | |
| 93106077 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 10 | ug/kg | |
| 93106077 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 10 | ug/kg | |
| 93106077 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 10 | ug/kg | |
| 93106077 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 10 | ug/kg | |
| 93106077 | SR | VOA, EPA 8240 | ACETONE | ND | 5.2 | ug/kg | |
| 93106077 | SR | VOA, EPA 8240 | BENZENE | ND | 5.2 | ug/kg | |
| 93106077 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 5.2 | ug/kg | |
| 93106077 | SR | VOA, EPA 8240 | BROMOFORM | ND | 5.2 | ug/kg | |
| 93106077 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 5.2 | ug/kg | |
| 93106077 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 5.2 | ug/kg | |
| 93106077 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 5.2 | ug/kg | |
| 93106077 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 5.2 | ug/kg | |
| 93106077 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 5.2 | ug/kg | |
| 93106077 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 5.2 | ug/kg | |
| 93106077 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 5.2 | ug/kg | |
| 93106077 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 5.2 | ug/kg | |
| 93106077 | SR | VOA, EPA 8240 | DIBROMOCHLOROMETHANE | ND | 5.2 | ug/kg | |
| 93106077 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 5.2 | ug/kg | |
| 93106077 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | 6.4 | 5.2 | ug/kg | |
| 93106077 | SR | VOA, EPA 8240 | STYRENE | ND | 5.2 | ug/kg | |
| 93106077 | SR | VOA, EPA 8240 | TETRACHLOROETHENE | ND | 5.2 | ug/kg | |
| 93106077 | SR | VOA, EPA 8240 | TOLUENE | ND | 5.2 | ug/kg | |
| 93106077 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 5.2 | ug/kg | |
| 93106077 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 5.2 | ug/kg | |
| 93106077 | SR | VOA, EPA 8240 | TRICHLOROETHENE | ND | 5.2 | ug/kg | |
| 93106077 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE | ND | 5.2 | ug/kg | |
| 93106077 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 10 | ug/kg | |
| 93106077 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 5.2 | ug/kg | |
| 93106077 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 5.2 | ug/kg | |
| 93106078 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106078 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 5 | ug/kg | |
| 93106078 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106078 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106078 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106078 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106078 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106078 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 5 | ug/kg | |
| 93106078 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106078 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106078 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 100 | ug/kg | |
| 93106078 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 10 | ug/kg | |
| 93106078 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 50 | ug/kg | |
| 93106078 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 50 | ug/kg | |
| 93106078 | SR | VOA, EPA 8240 | ACETONE | ND | 100 | ug/kg | |
| 93106078 | SR | VOA, EPA 8240 | BENZENE | ND | 5 | ug/kg | |
| 93106078 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 5 | ug/kg | |
| 93106078 | SR | VOA, EPA 8240 | BROMOFORM | ND | 5 | ug/kg | |
| 93106078 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 10 | ug/kg | |
| 93106078 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 100 | ug/kg | |
| 93106078 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 5 | ug/kg | |
| 93106078 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 5 | ug/kg | |
| 93106078 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 10 | ug/kg | |
| 93106078 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 5 | ug/kg | |
| 93106078 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 10 | ug/kg | |
| 93106078 | SR | VOA, EPA 8240 | CIS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106078 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106078 | SR | VOA, EPA 8240 | DIBROMOCHLOROMETHANE | ND | 5 | ug/kg | |
| 93106078 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 5 | ug/kg | |
| 93106078 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | ND | 5 | ug/kg | |
| 93106078 | SR | VOA, EPA 8240 | STYRENE | ND | 5 | ug/kg | |
| 93106078 | SR | VOA, EPA 8240 | TETRACHLOROETHENE | ND | 5 | ug/kg | |
| 93106078 | SR | VOA, EPA 8240 | TOLUENE | ND | 5 | ug/kg | |
| 93106078 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106078 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106078 | SR | VOA, EPA 8240 | TRICHLOROETHENE | ND | 5 | ug/kg | |

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|---|---|---|---|---|---|---|---|
| 93106078 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE | ND | 10 | ug/kg | |
| 93106078 | SR | VOA, EPA 8240 | TRICHLOROTRIFLUOROETHANE(CFC 113) | ND | 10 | ug/kg | |
| 93106078 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 50 | ug/kg | |
| 93106078 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 10 | ug/kg | |
| 93106078 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 5 | ug/kg | |
| 93106079 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106079 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 5 | ug/kg | |
| 93106079 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106079 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106079 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106079 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106079 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106079 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 5 | ug/kg | |
| 93106079 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106079 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106079 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 100 | ug/kg | |
| 93106079 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 10 | ug/kg | |
| 93106079 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 50 | ug/kg | |
| 93106079 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 50 | ug/kg | |
| 93106079 | SR | VOA, EPA 8240 | ACETONE | ND | 100 | ug/kg | |
| 93106079 | SR | VOA, EPA 8240 | BENZENE | ND | 5 | ug/kg | |
| 93106079 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 5 | ug/kg | |
| 93106079 | SR | VOA, EPA 8240 | BROMOFORM | ND | 5 | ug/kg | |
| 93106079 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 10 | ug/kg | |
| 93106079 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 100 | ug/kg | |
| 93106079 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 5 | ug/kg | |
| 93106079 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 5 | ug/kg | |
| 93106079 | SR | VOA, EPA 8240 | CHLORODIBROMOMETHANE | ND | 5 | ug/kg | |
| 93106079 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 10 | ug/kg | |
| 93106079 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 5 | ug/kg | |
| 93106079 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 10 | ug/kg | |
| 93106079 | SR | VOA, EPA 8240 | CIS-1,2-DICHLOROETHYLENE | ND | 5 | ug/kg | |
| 93106079 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106079 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 5 | ug/kg | |
| 93106079 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | ND | 5 | ug/kg | |
| 93106079 | SR | VOA, EPA 8240 | STYRENE | ND | 5 | ug/kg | |
| 93106079 | SR | VOA, EPA 8240 | TETRACHLOROETHENE | ND | 5 | ug/kg | |
| 93106079 | SR | VOA, EPA 8240 | TOLUENE | ND | 5 | ug/kg | |
| 93106079 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106079 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106079 | SR | VOA, EPA 8240 | TRICHLOROETHENE | ND | 5 | ug/kg | |
| 93106079 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE | ND | 10 | ug/kg | |
| 93106079 | SR | VOA, EPA 8240 | TRICHLOROTRIFLUOROETHANE(FREON113) | ND | 10 | ug/kg | |
| 93106079 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 50 | ug/kg | |
| 93106079 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 10 | ug/kg | |
| 93106079 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 5 | ug/kg | |
| 93106080 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106080 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 5 | ug/kg | |
| 93106080 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106080 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106080 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106080 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106080 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106080 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 5 | ug/kg | |
| 93106080 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106080 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106080 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 100 | ug/kg | |
| 93106080 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 10 | ug/kg | |
| 93106080 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 50 | ug/kg | |
| 93106080 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 50 | ug/kg | |
| 93106080 | SR | VOA, EPA 8240 | ACETONE | ND | 100 | ug/kg | |
| 93106080 | SR | VOA, EPA 8240 | BENZENE | ND | 5 | ug/kg | |
| 93106080 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 5 | ug/kg | |
| 93106080 | SR | VOA, EPA 8240 | BROMOFORM | ND | 5 | ug/kg | |
| 93106080 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 10 | ug/kg | |
| 93106080 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 100 | ug/kg | |
| 93106080 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 5 | ug/kg | |
| 93106080 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 5 | ug/kg | |
| 93106080 | SR | VOA, EPA 8240 | CHLORODIBROMOMETHANE | ND | 5 | ug/kg | |
| 93106080 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 10 | ug/kg | |
| 93106080 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 5 | ug/kg | |
| 93106080 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 10 | ug/kg | |
| 93106080 | SR | VOA, EPA 8240 | CIS-1,2-DICHLOROETHYLENE | ND | 5 | ug/kg | |
| 93106080 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |

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|---|---|---|---|---|---|---|---|
| 93106080 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 5 | ug/kg | |
| 93106080 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | ND | 5 | ug/kg | |
| 93106080 | SR | VOA, EPA 8240 | STYRENE | ND | 5 | ug/kg | |
| 93106080 | SR | VOA, EPA 8240 | TETRACHLOROETHENE | ND | 5 | ug/kg | |
| 93106080 | SR | VOA, EPA 8240 | TOLUENE | ND | 5 | ug/kg | |
| 93106080 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106080 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106080 | SR | VOA, EPA 8240 | TRICHLOROETHENE | ND | 5 | ug/kg | |
| 93106080 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE | ND | 10 | ug/kg | |
| 93106080 | SR | VOA, EPA 8240 | TRICHLOROTRIFLUOROETHANE(FREON113) | ND | 10 | ug/kg | |
| 93106080 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 50 | ug/kg | |
| 93106080 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 10 | ug/kg | |
| 93106080 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 5 | ug/kg | |
| 93106081 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106081 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 5 | ug/kg | |
| 93106081 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106081 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106081 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106081 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106081 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106081 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 5 | ug/kg | |
| 93106081 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106081 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106081 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 100 | ug/kg | |
| 93106081 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 10 | ug/kg | |
| 93106081 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 50 | ug/kg | |
| 93106081 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 50 | ug/kg | |
| 93106081 | SR | VOA, EPA 8240 | ACETONE | ND | 100 | ug/kg | |
| 93106081 | SR | VOA, EPA 8240 | BENZENE | ND | 5 | ug/kg | |
| 93106081 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 5 | ug/kg | |
| 93106081 | SR | VOA, EPA 8240 | BROMOFORM | ND | 5 | ug/kg | |
| 93106081 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 10 | ug/kg | |
| 93106081 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 100 | ug/kg | |
| 93106081 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 5 | ug/kg | |
| 93106081 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 5 | ug/kg | |
| 93106081 | SR | VOA, EPA 8240 | CHLORODIBROMOMETHANE | ND | 5 | ug/kg | |
| 93106081 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 10 | ug/kg | |
| 93106081 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 5 | ug/kg | |
| 93106081 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 10 | ug/kg | |
| 93106081 | SR | VOA, EPA 8240 | CIS-1,2-DICHLOROETHYLENE | ND | 5 | ug/kg | |
| 93106081 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106081 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 5 | ug/kg | |
| 93106081 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | ND | 5 | ug/kg | |
| 93106081 | SR | VOA, EPA 8240 | STYRENE | ND | 5 | ug/kg | |
| 93106081 | SR | VOA, EPA 8240 | TETRACHLOROETHENE | ND | 5 | ug/kg | |
| 93106081 | SR | VOA, EPA 8240 | TOLUENE | ND | 5 | ug/kg | |
| 93106081 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106081 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106081 | SR | VOA, EPA 8240 | TRICHLOROETHENE | ND | 5 | ug/kg | |
| 93106081 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE | ND | 10 | ug/kg | |
| 93106081 | SR | VOA, EPA 8240 | TRICHLOROTRIFLUOROETHANE(FREON113) | ND | 10 | ug/kg | |
| 93106081 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 50 | ug/kg | |
| 93106081 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 10 | ug/kg | |
| 93106081 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 5 | ug/kg | |
| 93106082 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106082 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 5 | ug/kg | |
| 93106082 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106082 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106082 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106082 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106082 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106082 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 5 | ug/kg | |
| 93106082 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106082 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106082 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 100 | ug/kg | |
| 93106082 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 10 | ug/kg | |
| 93106082 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 50 | ug/kg | |
| 93106082 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 50 | ug/kg | |
| 93106082 | SR | VOA, EPA 8240 | ACETONE | ND | 100 | ug/kg | |
| 93106082 | SR | VOA, EPA 8240 | BENZENE | ND | 5 | ug/kg | |
| 93106082 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 5 | ug/kg | |
| 93106082 | SR | VOA, EPA 8240 | BROMOFORM | ND | 5 | ug/kg | |
| 93106082 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 10 | ug/kg | |
| 93106082 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 100 | ug/kg | |

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|---|---|---|---|---|---|---|---|
| 93106082 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 5 | ug/kg | |
| 93106082 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 5 | ug/kg | |
| 93106082 | SR | VOA, EPA 8240 | CHLORODIBROMOMETHANE | ND | 5 | ug/kg | |
| 93106082 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 10 | ug/kg | |
| 93106082 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 5 | ug/kg | |
| 93106082 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 10 | ug/kg | |
| 93106082 | SR | VOA, EPA 8240 | CIS-1,2-DICHLOROETHYLENE | ND | 5 | ug/kg | |
| 93106082 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106082 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 5 | ug/kg | |
| 93106082 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | ND | 5 | ug/kg | |
| 93106082 | SR | VOA, EPA 8240 | STYRENE | ND | 5 | ug/kg | |
| 93106082 | SR | VOA, EPA 8240 | TETRACHLOROETHENE | ND | 5 | ug/kg | |
| 93106082 | SR | VOA, EPA 8240 | TOLUENE | ND | 5 | ug/kg | |
| 93106082 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106082 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106082 | SR | VOA, EPA 8240 | TRICHLOROETHENE | ND | 5 | ug/kg | |
| 93106082 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE | ND | 10 | ug/kg | |
| 93106082 | SR | VOA, EPA 8240 | TRICHLOROTRIFLUOROETHANE(FREON113) | ND | 10 | ug/kg | |
| 93106082 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 50 | ug/kg | |
| 93106082 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 10 | ug/kg | |
| 93106082 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 5 | ug/kg | |
| 93106083 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106083 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 5 | ug/kg | |
| 93106083 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106083 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106083 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106083 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106083 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106083 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 5 | ug/kg | |
| 93106083 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106083 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106083 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 100 | ug/kg | |
| 93106083 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 10 | ug/kg | |
| 93106083 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 50 | ug/kg | |
| 93106083 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 50 | ug/kg | |
| 93106083 | SR | VOA, EPA 8240 | ACETONE | ND | 100 | ug/kg | |
| 93106083 | SR | VOA, EPA 8240 | BENZENE | ND | 5 | ug/kg | |
| 93106083 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 5 | ug/kg | |
| 93106083 | SR | VOA, EPA 8240 | BROMOFORM | ND | 5 | ug/kg | |
| 93106083 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 10 | ug/kg | |
| 93106083 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 100 | ug/kg | |
| 93106083 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 5 | ug/kg | |
| 93106083 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 5 | ug/kg | |
| 93106083 | SR | VOA, EPA 8240 | CHLORODIBROMOMETHANE | ND | 5 | ug/kg | |
| 93106083 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 10 | ug/kg | |
| 93106083 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 5 | ug/kg | |
| 93106083 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 10 | ug/kg | |
| 93106083 | SR | VOA, EPA 8240 | CIS-1,2-DICHLOROETHYLENE | ND | 5 | ug/kg | |
| 93106083 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106083 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 5 | ug/kg | |
| 93106083 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | ND | 5 | ug/kg | |
| 93106083 | SR | VOA, EPA 8240 | STYRENE | ND | 5 | ug/kg | |
| 93106083 | SR | VOA, EPA 8240 | TETRACHLOROETHENE | ND | 5 | ug/kg | |
| 93106083 | SR | VOA, EPA 8240 | TOLUENE | ND | 5 | ug/kg | |
| 93106083 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106083 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106083 | SR | VOA, EPA 8240 | TRICHLOROETHENE | ND | 5 | ug/kg | |
| 93106083 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE | ND | 10 | ug/kg | |
| 93106083 | SR | VOA, EPA 8240 | TRICHLOROTRIFLUOROETHANE(FREON113) | ND | 10 | ug/kg | |
| 93106083 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 50 | ug/kg | |
| 93106083 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 10 | ug/kg | |
| 93106083 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 5 | ug/kg | |
| 93106084 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106084 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 5 | ug/kg | |
| 93106084 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106084 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106084 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106084 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106084 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106084 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 5 | ug/kg | |
| 93106084 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106084 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106084 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 100 | ug/kg | |
| 93106084 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 10 | ug/kg | |

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|---|---|---|---|---|---|---|---|
| 93106084 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 50 | ug/kg | |
| 93106084 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 50 | ug/kg | |
| 93106084 | SR | VOA, EPA 8240 | ACETONE | ND | 100 | ug/kg | |
| 93106084 | SR | VOA, EPA 8240 | BENZENE | ND | 5 | ug/kg | |
| 93106084 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 5 | ug/kg | |
| 93106084 | SR | VOA, EPA 8240 | BROMOFORM | ND | 5 | ug/kg | |
| 93106084 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 10 | ug/kg | |
| 93106084 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 100 | ug/kg | |
| 93106084 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 5 | ug/kg | |
| 93106084 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 5 | ug/kg | |
| 93106084 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 10 | ug/kg | |
| 93106084 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 5 | ug/kg | |
| 93106084 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 10 | ug/kg | |
| 93106084 | SR | VOA, EPA 8240 | CIS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106084 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106084 | SR | VOA, EPA 8240 | DIBROMOCHLOROMETHANE | ND | 5 | ug/kg | |
| 93106084 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 5 | ug/kg | |
| 93106084 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | ND | 5 | ug/kg | |
| 93106084 | SR | VOA, EPA 8240 | STYRENE | ND | 5 | ug/kg | |
| 93106084 | SR | VOA, EPA 8240 | TETRACHLOROETHENE | ND | 5 | ug/kg | |
| 93106084 | SR | VOA, EPA 8240 | TOLUENE | ND | 5 | ug/kg | |
| 93106084 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106084 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106084 | SR | VOA, EPA 8240 | TRICHLOROETHENE | ND | 5 | ug/kg | |
| 93106084 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE | ND | 10 | ug/kg | |
| 93106084 | SR | VOA, EPA 8240 | TRICHLOROTRIFLUOROETHANE(CFC 113) | ND | 10 | ug/kg | |
| 93106084 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 50 | ug/kg | |
| 93106084 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 10 | ug/kg | |
| 93106084 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 5 | ug/kg | |
| 93106085 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106085 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 5 | ug/kg | |
| 93106085 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106085 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106085 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106085 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106085 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106085 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 5 | ug/kg | |
| 93106085 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106085 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106085 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 100 | ug/kg | |
| 93106085 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 10 | ug/kg | |
| 93106085 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 50 | ug/kg | |
| 93106085 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 50 | ug/kg | |
| 93106085 | SR | VOA, EPA 8240 | ACETONE | ND | 100 | ug/kg | |
| 93106085 | SR | VOA, EPA 8240 | BENZENE | ND | 5 | ug/kg | |
| 93106085 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 5 | ug/kg | |
| 93106085 | SR | VOA, EPA 8240 | BROMOFORM | ND | 5 | ug/kg | |
| 93106085 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 10 | ug/kg | |
| 93106085 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 100 | ug/kg | |
| 93106085 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 5 | ug/kg | |
| 93106085 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 5 | ug/kg | |
| 93106085 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 10 | ug/kg | |
| 93106085 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 5 | ug/kg | |
| 93106085 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 10 | ug/kg | |
| 93106085 | SR | VOA, EPA 8240 | CIS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106085 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106085 | SR | VOA, EPA 8240 | DIBROMOCHLOROMETHANE | ND | 5 | ug/kg | |
| 93106085 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 5 | ug/kg | |
| 93106085 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | ND | 5 | ug/kg | |
| 93106085 | SR | VOA, EPA 8240 | STYRENE | ND | 5 | ug/kg | |
| 93106085 | SR | VOA, EPA 8240 | TETRACHLOROETHENE (PCE) | ND | 5 | ug/kg | |
| 93106085 | SR | VOA, EPA 8240 | TOLUENE | ND | 5 | ug/kg | |
| 93106085 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106085 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106085 | SR | VOA, EPA 8240 | TRICHLOROETHENE | ND | 5 | ug/kg | |
| 93106085 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE (CFC 11) | ND | 10 | ug/kg | |
| 93106085 | SR | VOA, EPA 8240 | TRICHLOROTRIFLUOROETHANE(CFC 113) | ND | 10 | ug/kg | |
| 93106085 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 50 | ug/kg | |
| 93106085 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 10 | ug/kg | |
| 93106085 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 5 | ug/kg | |
| 93106086 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106086 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 5 | ug/kg | |
| 93106086 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106086 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 5 | ug/kg | |

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|---|---|---|---|---|---|---|---|
| 93106086 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106086 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106086 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106086 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 5 | ug/kg | |
| 93106086 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106086 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106086 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 100 | ug/kg | |
| 93106086 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 10 | ug/kg | |
| 93106086 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 50 | ug/kg | |
| 93106086 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 50 | ug/kg | |
| 93106086 | SR | VOA, EPA 8240 | ACETONE | ND | 100 | ug/kg | |
| 93106086 | SR | VOA, EPA 8240 | BENZENE | ND | 5 | ug/kg | |
| 93106086 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 5 | ug/kg | |
| 93106086 | SR | VOA, EPA 8240 | BROMOFORM | ND | 5 | ug/kg | |
| 93106086 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 10 | ug/kg | |
| 93106086 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 100 | ug/kg | |
| 93106086 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 5 | ug/kg | |
| 93106086 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 5 | ug/kg | |
| 93106086 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 10 | ug/kg | |
| 93106086 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 5 | ug/kg | |
| 93106086 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 10 | ug/kg | |
| 93106086 | SR | VOA, EPA 8240 | CIS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106086 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106086 | SR | VOA, EPA 8240 | DIBROMOCHLOROMETHANE | ND | 5 | ug/kg | |
| 93106086 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 5 | ug/kg | |
| 93106086 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | ND | 5 | ug/kg | |
| 93106086 | SR | VOA, EPA 8240 | STYRENE | ND | 5 | ug/kg | |
| 93106086 | SR | VOA, EPA 8240 | TETRACHLOROETHENE (PCE) | ND | 5 | ug/kg | |
| 93106086 | SR | VOA, EPA 8240 | TOLUENE | ND | 5 | ug/kg | |
| 93106086 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106086 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106086 | SR | VOA, EPA 8240 | TRICHLOROETHENE | ND | 5 | ug/kg | |
| 93106086 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE (CFC 11) | ND | 10 | ug/kg | |
| 93106086 | SR | VOA, EPA 8240 | TRICHLOROTRIFLUOROETHANE(CFC 113) | ND | 10 | ug/kg | |
| 93106086 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 50 | ug/kg | |
| 93106086 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 10 | ug/kg | |
| 93106086 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 5 | ug/kg | |
| 93106087 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106087 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 5 | ug/kg | |
| 93106087 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106087 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106087 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106087 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106087 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106087 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 5 | ug/kg | |
| 93106087 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106087 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106087 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 100 | ug/kg | |
| 93106087 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 10 | ug/kg | |
| 93106087 | SR | VOA, EPA 8240 | 2-HEXANONE | 21 | 50 | ug/kg | |
| 93106087 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 50 | ug/kg | |
| 93106087 | SR | VOA, EPA 8240 | ACETONE | ND | 100 | ug/kg | |
| 93106087 | SR | VOA, EPA 8240 | BENZENE | ND | 5 | ug/kg | |
| 93106087 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 5 | ug/kg | |
| 93106087 | SR | VOA, EPA 8240 | BROMOFORM | ND | 5 | ug/kg | |
| 93106087 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 10 | ug/kg | |
| 93106087 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 100 | ug/kg | |
| 93106087 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 5 | ug/kg | |
| 93106087 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 5 | ug/kg | |
| 93106087 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 10 | ug/kg | |
| 93106087 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 5 | ug/kg | |
| 93106087 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 10 | ug/kg | |
| 93106087 | SR | VOA, EPA 8240 | CIS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106087 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106087 | SR | VOA, EPA 8240 | DIBROMOCHLOROMETHANE | ND | 5 | ug/kg | |
| 93106087 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 5 | ug/kg | |
| 93106087 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | ND | 5 | ug/kg | |
| 93106087 | SR | VOA, EPA 8240 | STYRENE | ND | 5 | ug/kg | |
| 93106087 | SR | VOA, EPA 8240 | TETRACHLOROETHENE | ND | 5 | ug/kg | |
| 93106087 | SR | VOA, EPA 8240 | TOLUENE | ND | 5 | ug/kg | |
| 93106087 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106087 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106087 | SR | VOA, EPA 8240 | TRICHLOROETHENE | ND | 5 | ug/kg | |
| 93106087 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE | ND | 10 | ug/kg | |

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|---|---|---|---|---|---|---|---|
| 93106087 | SR | VOA, EPA 8240 | TRICHLOROTRIFLUOROETHANE(CFC 113) | ND | 10 | ug/kg | |
| 93106087 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 50 | ug/kg | |
| 93106087 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 10 | ug/kg | |
| 93106087 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 5 | ug/kg | |
| 93106088 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 5.2 | ug/kg | |
| 93106088 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 5.2 | ug/kg | |
| 93106088 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 5.2 | ug/kg | |
| 93106088 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 5.2 | ug/kg | |
| 93106088 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 5.2 | ug/kg | |
| 93106088 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 5.2 | ug/kg | |
| 93106088 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 5.2 | ug/kg | |
| 93106088 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 5.2 | ug/kg | |
| 93106088 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 5.2 | ug/kg | |
| 93106088 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 5.2 | ug/kg | |
| 93106088 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 10 | ug/kg | |
| 93106088 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 10 | ug/kg | |
| 93106088 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 10 | ug/kg | |
| 93106088 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 10 | ug/kg | |
| 93106088 | SR | VOA, EPA 8240 | ACETONE | ND | 5.2 | ug/kg | |
| 93106088 | SR | VOA, EPA 8240 | BENZENE | ND | 5.2 | ug/kg | |
| 93106088 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 5.2 | ug/kg | |
| 93106088 | SR | VOA, EPA 8240 | BROMOFORM | ND | 5.2 | ug/kg | |
| 93106088 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 5.2 | ug/kg | |
| 93106088 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 5.2 | ug/kg | |
| 93106088 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 5.2 | ug/kg | |
| 93106088 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 5.2 | ug/kg | |
| 93106088 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 5.2 | ug/kg | |
| 93106088 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 5.2 | ug/kg | |
| 93106088 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 5.2 | ug/kg | |
| 93106088 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 5.2 | ug/kg | |
| 93106088 | SR | VOA, EPA 8240 | DIBROMOCHLOROMETHANE | ND | 5.2 | ug/kg | |
| 93106088 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 5.2 | ug/kg | |
| 93106088 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | 9.2 | 5.2 | ug/kg | |
| 93106088 | SR | VOA, EPA 8240 | STYRENE | ND | 5.2 | ug/kg | |
| 93106088 | SR | VOA, EPA 8240 | TETRACHLOROETHENE | ND | 5.2 | ug/kg | |
| 93106088 | SR | VOA, EPA 8240 | TOLUENE | ND | 5.2 | ug/kg | |
| 93106088 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 5.2 | ug/kg | |
| 93106088 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 5.2 | ug/kg | |
| 93106088 | SR | VOA, EPA 8240 | TRICHLOROETHENE | ND | 5.2 | ug/kg | |
| 93106088 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE | ND | 5.2 | ug/kg | |
| 93106088 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 10 | ug/kg | |
| 93106088 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 5.2 | ug/kg | |
| 93106088 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 5.2 | ug/kg | |
| 93106089 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106089 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 5 | ug/kg | |
| 93106089 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106089 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106089 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106089 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106089 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106089 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 5 | ug/kg | |
| 93106089 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106089 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106089 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 100 | ug/kg | |
| 93106089 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 10 | ug/kg | |
| 93106089 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 50 | ug/kg | |
| 93106089 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 50 | ug/kg | |
| 93106089 | SR | VOA, EPA 8240 | ACETONE | ND | 100 | ug/kg | |
| 93106089 | SR | VOA, EPA 8240 | BENZENE | ND | 5 | ug/kg | |
| 93106089 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 5 | ug/kg | |
| 93106089 | SR | VOA, EPA 8240 | BROMOFORM | ND | 5 | ug/kg | |
| 93106089 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 10 | ug/kg | |
| 93106089 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 100 | ug/kg | |
| 93106089 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 5 | ug/kg | |
| 93106089 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 5 | ug/kg | |
| 93106089 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 10 | ug/kg | |
| 93106089 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 5 | ug/kg | |
| 93106089 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 10 | ug/kg | |
| 93106089 | SR | VOA, EPA 8240 | CIS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106089 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106089 | SR | VOA, EPA 8240 | DIBROMOCHLOROMETHANE | ND | 5 | ug/kg | |
| 93106089 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 5 | ug/kg | |
| 93106089 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | ND | 5 | ug/kg | |
| 93106089 | SR | VOA, EPA 8240 | STYRENE | ND | 5 | ug/kg | |

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|---|---|---|---|---|---|---|---|
| 93106089 | SR | VOA, EPA 8240 | TETRACHLOROETHENE (PCE) | ND | 5 | ug/kg | |
| 93106089 | SR | VOA, EPA 8240 | TOLUENE | ND | 5 | ug/kg | |
| 93106089 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106089 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106089 | SR | VOA, EPA 8240 | TRICHLOROETHENE | ND | 5 | ug/kg | |
| 93106089 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE (CFC 11) | ND | 10 | ug/kg | |
| 93106089 | SR | VOA, EPA 8240 | TRICHLOROTRIFLUOROETHANE(CFC 113) | ND | 10 | ug/kg | |
| 93106089 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 50 | ug/kg | |
| 93106089 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 10 | ug/kg | |
| 93106089 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 5 | ug/kg | |
| 93106090 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106090 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 5 | ug/kg | |
| 93106090 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106090 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106090 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106090 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106090 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106090 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 5 | ug/kg | |
| 93106090 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106090 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106090 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 100 | ug/kg | |
| 93106090 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 10 | ug/kg | |
| 93106090 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 50 | ug/kg | |
| 93106090 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 50 | ug/kg | |
| 93106090 | SR | VOA, EPA 8240 | ACETONE | ND | 100 | ug/kg | |
| 93106090 | SR | VOA, EPA 8240 | BENZENE | ND | 5 | ug/kg | |
| 93106090 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 5 | ug/kg | |
| 93106090 | SR | VOA, EPA 8240 | BROMOFORM | ND | 5 | ug/kg | |
| 93106090 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 10 | ug/kg | |
| 93106090 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 100 | ug/kg | |
| 93106090 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 5 | ug/kg | |
| 93106090 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 5 | ug/kg | |
| 93106090 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 10 | ug/kg | |
| 93106090 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 5 | ug/kg | |
| 93106090 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 10 | ug/kg | |
| 93106090 | SR | VOA, EPA 8240 | CIS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106090 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106090 | SR | VOA, EPA 8240 | DIBROMOCHLOROMETHANE | ND | 5 | ug/kg | |
| 93106090 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 5 | ug/kg | |
| 93106090 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | ND | 5 | ug/kg | |
| 93106090 | SR | VOA, EPA 8240 | STYRENE | ND | 5 | ug/kg | |
| 93106090 | SR | VOA, EPA 8240 | TETRACHLOROETHENE | ND | 5 | ug/kg | |
| 93106090 | SR | VOA, EPA 8240 | TOLUENE | ND | 5 | ug/kg | |
| 93106090 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106090 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106090 | SR | VOA, EPA 8240 | TRICHLOROETHENE | ND | 5 | ug/kg | |
| 93106090 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE | ND | 10 | ug/kg | |
| 93106090 | SR | VOA, EPA 8240 | TRICHLOROTRIFLUOROETHANE(CFC 113) | ND | 10 | ug/kg | |
| 93106090 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 50 | ug/kg | |
| 93106090 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 10 | ug/kg | |
| 93106090 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 5 | ug/kg | |
| 93106091 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106091 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 5 | ug/kg | |
| 93106091 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106091 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106091 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106091 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106091 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106091 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 5 | ug/kg | |
| 93106091 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106091 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106091 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 100 | ug/kg | |
| 93106091 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 10 | ug/kg | |
| 93106091 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 50 | ug/kg | |
| 93106091 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 50 | ug/kg | |
| 93106091 | SR | VOA, EPA 8240 | ACETONE | ND | 100 | ug/kg | |
| 93106091 | SR | VOA, EPA 8240 | BENZENE | ND | 5 | ug/kg | |
| 93106091 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 5 | ug/kg | |
| 93106091 | SR | VOA, EPA 8240 | BROMOFORM | ND | 5 | ug/kg | |
| 93106091 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 10 | ug/kg | |
| 93106091 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 100 | ug/kg | |
| 93106091 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 5 | ug/kg | |
| 93106091 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 5 | ug/kg | |
| 93106091 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 10 | ug/kg | |

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|---|---|---|---|---|---|---|---|
| 93106091 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 5 | ug/kg | |
| 93106091 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 10 | ug/kg | |
| 93106091 | SR | VOA, EPA 8240 | CIS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106091 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106091 | SR | VOA, EPA 8240 | DIBROMOCHLOROMETHANE | ND | 5 | ug/kg | |
| 93106091 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 5 | ug/kg | |
| 93106091 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | ND | 5 | ug/kg | |
| 93106091 | SR | VOA, EPA 8240 | STYRENE | ND | 5 | ug/kg | |
| 93106091 | SR | VOA, EPA 8240 | TETRACHLOROETHENE (PCE) | ND | 5 | ug/kg | |
| 93106091 | SR | VOA, EPA 8240 | TOLUENE | ND | 5 | ug/kg | |
| 93106091 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106091 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106091 | SR | VOA, EPA 8240 | TRICHLOROETHENE | ND | 5 | ug/kg | |
| 93106091 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE (CFC 11) | ND | 10 | ug/kg | |
| 93106091 | SR | VOA, EPA 8240 | TRICHLOROTRIFLUOROETHANE(CFC 113) | ND | 10 | ug/kg | |
| 93106091 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 50 | ug/kg | |
| 93106091 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 10 | ug/kg | |
| 93106091 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 5 | ug/kg | |
| 93106092 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106092 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 5 | ug/kg | |
| 93106092 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106092 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106092 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106092 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106092 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106092 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 5 | ug/kg | |
| 93106092 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106092 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106092 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 100 | ug/kg | |
| 93106092 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 10 | ug/kg | |
| 93106092 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 50 | ug/kg | |
| 93106092 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 50 | ug/kg | |
| 93106092 | SR | VOA, EPA 8240 | ACETONE | ND | 100 | ug/kg | |
| 93106092 | SR | VOA, EPA 8240 | BENZENE | ND | 5 | ug/kg | |
| 93106092 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 5 | ug/kg | |
| 93106092 | SR | VOA, EPA 8240 | BROMOFORM | ND | 5 | ug/kg | |
| 93106092 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 10 | ug/kg | |
| 93106092 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 100 | ug/kg | |
| 93106092 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 5 | ug/kg | |
| 93106092 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 5 | ug/kg | |
| 93106092 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 10 | ug/kg | |
| 93106092 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 5 | ug/kg | |
| 93106092 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 10 | ug/kg | |
| 93106092 | SR | VOA, EPA 8240 | CIS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106092 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106092 | SR | VOA, EPA 8240 | DIBROMOCHLOROMETHANE | ND | 5 | ug/kg | |
| 93106092 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 5 | ug/kg | |
| 93106092 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | ND | 5 | ug/kg | |
| 93106092 | SR | VOA, EPA 8240 | STYRENE | ND | 5 | ug/kg | |
| 93106092 | SR | VOA, EPA 8240 | TETRACHLOROETHENE | ND | 5 | ug/kg | |
| 93106092 | SR | VOA, EPA 8240 | TOLUENE | ND | 5 | ug/kg | |
| 93106092 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106092 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106092 | SR | VOA, EPA 8240 | TRICHLOROETHENE | ND | 5 | ug/kg | |
| 93106092 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE | ND | 10 | ug/kg | |
| 93106092 | SR | VOA, EPA 8240 | TRICHLOROTRIFLUOROETHANE(CFC 113) | ND | 10 | ug/kg | |
| 93106092 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 50 | ug/kg | |
| 93106092 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 10 | ug/kg | |
| 93106092 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 5 | ug/kg | |
| 93106093 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 1000 | ug/kg | |
| 93106093 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 1000 | ug/kg | |
| 93106093 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 1000 | ug/kg | |
| 93106093 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 1000 | ug/kg | |
| 93106093 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 1000 | ug/kg | |
| 93106093 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 1000 | ug/kg | |
| 93106093 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 1000 | ug/kg | |
| 93106093 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 1000 | ug/kg | |
| 93106093 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 1000 | ug/kg | |
| 93106093 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 1000 | ug/kg | |
| 93106093 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 20000 | ug/kg | |
| 93106093 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 2000 | ug/kg | |
| 93106093 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 10000 | ug/kg | |
| 93106093 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 10000 | ug/kg | |
| 93106093 | SR | VOA, EPA 8240 | ACETONE | ND | 20000 | ug/kg | |

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|---|---|---|---|---|---|---|---|
| 93106093 | SR | VOA, EPA 8240 | BENZENE | ND | 1000 | ug/kg | |
| 93106093 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 1000 | ug/kg | |
| 93106093 | SR | VOA, EPA 8240 | BROMOFORM | ND | 1000 | ug/kg | |
| 93106093 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 2000 | ug/kg | |
| 93106093 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 20000 | ug/kg | |
| 93106093 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 1000 | ug/kg | |
| 93106093 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 1000 | ug/kg | |
| 93106093 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 2000 | ug/kg | |
| 93106093 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 1000 | ug/kg | |
| 93106093 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 2000 | ug/kg | |
| 93106093 | SR | VOA, EPA 8240 | CIS-1,2-DICHLOROETHENE | ND | 1000 | ug/kg | |
| 93106093 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 1000 | ug/kg | |
| 93106093 | SR | VOA, EPA 8240 | DIBROMOCHLOROMETHANE | ND | 1000 | ug/kg | |
| 93106093 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 1000 | ug/kg | |
| 93106093 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | ND | 1000 | ug/kg | |
| 93106093 | SR | VOA, EPA 8240 | STYRENE | ND | 1000 | ug/kg | |
| 93106093 | SR | VOA, EPA 8240 | TETRACHLOROETHENE (PCE) | ND | 1000 | ug/kg | |
| 93106093 | SR | VOA, EPA 8240 | TOLUENE | ND | 1000 | ug/kg | |
| 93106093 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 1000 | ug/kg | |
| 93106093 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 1000 | ug/kg | |
| 93106093 | SR | VOA, EPA 8240 | TRICHLOROETHENE | ND | 1000 | ug/kg | |
| 93106093 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE (CFC 11) | ND | 2000 | ug/kg | |
| 93106093 | SR | VOA, EPA 8240 | TRICHLOROTRIFLUOROETHANE(CFC 113) | ND | 2000 | ug/kg | |
| 93106093 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 10000 | ug/kg | |
| 93106093 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 2000 | ug/kg | |
| 93106093 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 1000 | ug/kg | |
| 93106094 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106094 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 5 | ug/kg | |
| 93106094 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106094 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106094 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106094 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106094 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106094 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 5 | ug/kg | |
| 93106094 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106094 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106094 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 100 | ug/kg | |
| 93106094 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 10 | ug/kg | |
| 93106094 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 50 | ug/kg | |
| 93106094 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 50 | ug/kg | |
| 93106094 | SR | VOA, EPA 8240 | ACETONE | ND | 100 | ug/kg | |
| 93106094 | SR | VOA, EPA 8240 | BENZENE | ND | 5 | ug/kg | |
| 93106094 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 5 | ug/kg | |
| 93106094 | SR | VOA, EPA 8240 | BROMOFORM | ND | 5 | ug/kg | |
| 93106094 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 10 | ug/kg | |
| 93106094 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 100 | ug/kg | |
| 93106094 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 5 | ug/kg | |
| 93106094 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 5 | ug/kg | |
| 93106094 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 10 | ug/kg | |
| 93106094 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 5 | ug/kg | |
| 93106094 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 10 | ug/kg | |
| 93106094 | SR | VOA, EPA 8240 | CIS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106094 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106094 | SR | VOA, EPA 8240 | DIBROMOCHLOROMETHANE | ND | 5 | ug/kg | |
| 93106094 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 5 | ug/kg | |
| 93106094 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | ND | 5 | ug/kg | |
| 93106094 | SR | VOA, EPA 8240 | STYRENE | ND | 5 | ug/kg | |
| 93106094 | SR | VOA, EPA 8240 | TETRACHLOROETHENE (PCE) | ND | 5 | ug/kg | |
| 93106094 | SR | VOA, EPA 8240 | TOLUENE | ND | 5 | ug/kg | |
| 93106094 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106094 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106094 | SR | VOA, EPA 8240 | TRICHLOROETHENE | ND | 5 | ug/kg | |
| 93106094 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE (CFC 11) | ND | 10 | ug/kg | |
| 93106094 | SR | VOA, EPA 8240 | TRICHLOROTRIFLUOROETHANE(CFC 113) | ND | 10 | ug/kg | |
| 93106094 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 50 | ug/kg | |
| 93106094 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 10 | ug/kg | |
| 93106094 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 5 | ug/kg | |
| 93106095 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106095 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 5 | ug/kg | |
| 93106095 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106095 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106095 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106095 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106095 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 5 | ug/kg | |

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|---|---|---|---|---|---|---|---|
| 93106095 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 5 | ug/kg | |
| 93106095 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106095 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106095 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 100 | ug/kg | |
| 93106095 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 10 | ug/kg | |
| 93106095 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 50 | ug/kg | |
| 93106095 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 50 | ug/kg | |
| 93106095 | SR | VOA, EPA 8240 | ACETONE | ND | 100 | ug/kg | |
| 93106095 | SR | VOA, EPA 8240 | BENZENE | ND | 5 | ug/kg | |
| 93106095 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 5 | ug/kg | |
| 93106095 | SR | VOA, EPA 8240 | BROMOFORM | ND | 5 | ug/kg | |
| 93106095 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 10 | ug/kg | |
| 93106095 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 100 | ug/kg | |
| 93106095 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 5 | ug/kg | |
| 93106095 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 5 | ug/kg | |
| 93106095 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 10 | ug/kg | |
| 93106095 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 5 | ug/kg | |
| 93106095 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 10 | ug/kg | |
| 93106095 | SR | VOA, EPA 8240 | CIS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106095 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106095 | SR | VOA, EPA 8240 | DIBROMOCHLOROMETHANE | ND | 5 | ug/kg | |
| 93106095 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 5 | ug/kg | |
| 93106095 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | ND | 5 | ug/kg | |
| 93106095 | SR | VOA, EPA 8240 | STYRENE | ND | 5 | ug/kg | |
| 93106095 | SR | VOA, EPA 8240 | TETRACHLOROETHENE (PCE) | ND | 5 | ug/kg | |
| 93106095 | SR | VOA, EPA 8240 | TOLUENE | ND | 5 | ug/kg | |
| 93106095 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106095 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106095 | SR | VOA, EPA 8240 | TRICHLOROETHENE | ND | 5 | ug/kg | |
| 93106095 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE (CFC 11) | ND | 10 | ug/kg | |
| 93106095 | SR | VOA, EPA 8240 | TRICHLOROTRIFLUOROETHANE(CFC 113) | ND | 10 | ug/kg | |
| 93106095 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 50 | ug/kg | |
| 93106095 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 10 | ug/kg | |
| 93106095 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 5 | ug/kg | |
| 93106096 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106096 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 5 | ug/kg | |
| 93106096 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106096 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106096 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106096 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106096 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106096 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 5 | ug/kg | |
| 93106096 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106096 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106096 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 100 | ug/kg | |
| 93106096 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 10 | ug/kg | |
| 93106096 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 50 | ug/kg | |
| 93106096 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 50 | ug/kg | |
| 93106096 | SR | VOA, EPA 8240 | ACETONE | ND | 100 | ug/kg | |
| 93106096 | SR | VOA, EPA 8240 | BENZENE | ND | 5 | ug/kg | |
| 93106096 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 5 | ug/kg | |
| 93106096 | SR | VOA, EPA 8240 | BROMOFORM | ND | 5 | ug/kg | |
| 93106096 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 10 | ug/kg | |
| 93106096 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 100 | ug/kg | |
| 93106096 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 5 | ug/kg | |
| 93106096 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 5 | ug/kg | |
| 93106096 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 10 | ug/kg | |
| 93106096 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 5 | ug/kg | |
| 93106096 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 10 | ug/kg | |
| 93106096 | SR | VOA, EPA 8240 | CIS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106096 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106096 | SR | VOA, EPA 8240 | DIBROMOCHLOROMETHANE | ND | 5 | ug/kg | |
| 93106096 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 5 | ug/kg | |
| 93106096 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | ND | 5 | ug/kg | |
| 93106096 | SR | VOA, EPA 8240 | STYRENE | ND | 5 | ug/kg | |
| 93106096 | SR | VOA, EPA 8240 | TETRACHLOROETHENE | ND | 5 | ug/kg | |
| 93106096 | SR | VOA, EPA 8240 | TOLUENE | ND | 5 | ug/kg | |
| 93106096 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106096 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106096 | SR | VOA, EPA 8240 | TRICHLOROETHENE | ND | 5 | ug/kg | |
| 93106096 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE | ND | 10 | ug/kg | |
| 93106096 | SR | VOA, EPA 8240 | TRICHLOROTRIFLUOROETHANE(CFC 113) | ND | 10 | ug/kg | |
| 93106096 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 50 | ug/kg | |
| 93106096 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 10 | ug/kg | |

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|---|---|---|---|---|---|---|---|
| 93106096 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 5 | ug/kg | |
| 93106097 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106097 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 5 | ug/kg | |
| 93106097 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 5 | ug/kg | |
| 93106097 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106097 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106097 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106097 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 5 | ug/kg | |
| 93106097 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 5 | ug/kg | |
| 93106097 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106097 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 5 | ug/kg | |
| 93106097 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 100 | ug/kg | |
| 93106097 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 10 | ug/kg | |
| 93106097 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 50 | ug/kg | |
| 93106097 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 50 | ug/kg | |
| 93106097 | SR | VOA, EPA 8240 | ACETONE | ND | 100 | ug/kg | |
| 93106097 | SR | VOA, EPA 8240 | BENZENE | ND | 5 | ug/kg | |
| 93106097 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 5 | ug/kg | |
| 93106097 | SR | VOA, EPA 8240 | BROMOFORM | ND | 5 | ug/kg | |
| 93106097 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 10 | ug/kg | |
| 93106097 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 100 | ug/kg | |
| 93106097 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 5 | ug/kg | |
| 93106097 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 5 | ug/kg | |
| 93106097 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 10 | ug/kg | |
| 93106097 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 5 | ug/kg | |
| 93106097 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 10 | ug/kg | |
| 93106097 | SR | VOA, EPA 8240 | CIS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106097 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106097 | SR | VOA, EPA 8240 | DIBROMOCHLOROMETHANE | ND | 5 | ug/kg | |
| 93106097 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 5 | ug/kg | |
| 93106097 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | ND | 5 | ug/kg | |
| 93106097 | SR | VOA, EPA 8240 | STYRENE | ND | 5 | ug/kg | |
| 93106097 | SR | VOA, EPA 8240 | TETRACHLOROETHENE (PCE) | ND | 5 | ug/kg | |
| 93106097 | SR | VOA, EPA 8240 | TOLUENE | ND | 5 | ug/kg | |
| 93106097 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 5 | ug/kg | |
| 93106097 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 5 | ug/kg | |
| 93106097 | SR | VOA, EPA 8240 | TRICHLOROETHENE | ND | 5 | ug/kg | |
| 93106097 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE (CFC 11) | ND | 10 | ug/kg | |
| 93106097 | SR | VOA, EPA 8240 | TRICHLOROTRIFLUOROETHANE(CFC 113) | ND | 10 | ug/kg | |
| 93106097 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 50 | ug/kg | |
| 93106097 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 10 | ug/kg | |
| 93106097 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 5 | ug/kg | |
| 93106098 | SR | VOA, EPA 8240 | 1,1,1-TRICHLOROETHANE | ND | 5 | ug/l | |
| 93106098 | SR | VOA, EPA 8240 | 1,1,2,2-TETRACHLOROETHANE | ND | 5 | ug/l | |
| 93106098 | SR | VOA, EPA 8240 | 1,1,2-TRICHLOROETHANE | ND | 5 | ug/l | |
| 93106098 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHANE | ND | 5 | ug/l | |
| 93106098 | SR | VOA, EPA 8240 | 1,1-DICHLOROETHENE | ND | 5 | ug/l | |
| 93106098 | SR | VOA, EPA 8240 | 1,2-DICHLOROBENZENE | ND | 5 | ug/l | |
| 93106098 | SR | VOA, EPA 8240 | 1,2-DICHLOROETHANE | ND | 5 | ug/l | |
| 93106098 | SR | VOA, EPA 8240 | 1,2-DICHLOROPROPANE | ND | 5 | ug/l | |
| 93106098 | SR | VOA, EPA 8240 | 1,3-DICHLOROBENZENE | ND | 5 | ug/l | |
| 93106098 | SR | VOA, EPA 8240 | 1,4-DICHLOROBENZENE | ND | 5 | ug/l | |
| 93106098 | SR | VOA, EPA 8240 | 2-BUTANONE | ND | 100 | ug/l | |
| 93106098 | SR | VOA, EPA 8240 | 2-CHLOROETHYLVINYL ETHER | ND | 10 | ug/l | |
| 93106098 | SR | VOA, EPA 8240 | 2-HEXANONE | ND | 50 | ug/l | |
| 93106098 | SR | VOA, EPA 8240 | 4-METHYL-2-PENTANONE | ND | 50 | ug/l | |
| 93106098 | SR | VOA, EPA 8240 | ACETONE | ND | 100 | ug/l | |
| 93106098 | SR | VOA, EPA 8240 | BENZENE | ND | 5 | ug/l | |
| 93106098 | SR | VOA, EPA 8240 | BROMODICHLOROMETHANE | ND | 5 | ug/l | |
| 93106098 | SR | VOA, EPA 8240 | BROMOFORM | ND | 5 | ug/l | |
| 93106098 | SR | VOA, EPA 8240 | BROMOMETHANE | ND | 10 | ug/l | |
| 93106098 | SR | VOA, EPA 8240 | CARBON DISULFIDE | ND | 100 | ug/l | |
| 93106098 | SR | VOA, EPA 8240 | CARBON TETRACHLORIDE | ND | 5 | ug/l | |
| 93106098 | SR | VOA, EPA 8240 | CHLOROBENZENE | ND | 5 | ug/l | |
| 93106098 | SR | VOA, EPA 8240 | CHLORODIBROMOMETHANE | ND | 5 | ug/l | |
| 93106098 | SR | VOA, EPA 8240 | CHLOROETHANE | ND | 10 | ug/l | |
| 93106098 | SR | VOA, EPA 8240 | CHLOROFORM | ND | 5 | ug/l | |
| 93106098 | SR | VOA, EPA 8240 | CHLOROMETHANE | ND | 10 | ug/l | |
| 93106098 | SR | VOA, EPA 8240 | CIS-1,2-DICHLOROETHYLENE | ND | 5 | ug/l | |
| 93106098 | SR | VOA, EPA 8240 | CIS-1,3-DICHLOROPROPENE | ND | 5 | ug/l | |
| 93106098 | SR | VOA, EPA 8240 | ETHYL BENZENE | ND | 5 | ug/l | |
| 93106098 | SR | VOA, EPA 8240 | METHYLENE CHLORIDE | ND | 5 | ug/l | |
| 93106098 | SR | VOA, EPA 8240 | STYRENE | ND | 5 | ug/l | |
| 93106098 | SR | VOA, EPA 8240 | TETRACHLOROETHENE | ND | 5 | ug/l | |

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|---|---|---|---|---|---|---|---|
| 93106098 | SR | VOA, EPA 8240 | TOLUENE | ND | 5 | ug/l | |
| 93106098 | SR | VOA, EPA 8240 | TRANS-1,3-DICHLOROPROPENE | ND | 5 | ug/l | |
| 93106098 | SR | VOA, EPA 8240 | TRANS-1,2-DICHLOROETHENE | ND | 5 | ug/l | |
| 93106098 | SR | VOA, EPA 8240 | TRICHLOROETHENE | ND | 5 | ug/l | |
| 93106098 | SR | VOA, EPA 8240 | TRICHLOROFLUOROMETHANE | ND | 10 | ug/l | |
| 93106098 | SR | VOA, EPA 8240 | TRICHLOROTRIFLUOROETHANE(FREON113) | ND | 10 | ug/l | |
| 93106098 | SR | VOA, EPA 8240 | VINYL ACETATE | ND | 50 | ug/l | |
| 93106098 | SR | VOA, EPA 8240 | VINYL CHLORIDE | ND | 10 | ug/l | |
| 93106098 | SR | VOA, EPA 8240 | XYLENES (TOTAL) | ND | 5 | ug/l | |
| 93106007 | SL | TOC, EPA 415.1 | TOTAL ORGANIC CARBON | 0.32 | 0.05 | % | |
| 93106008 | SL | TOC, EPA 415.1 | TOTAL ORGANIC CARBON | 3 | 0.05 | % | |
| 93106009 | SL | TOC, EPA 415.1 | TOTAL ORGANIC CARBON | 0.7 | 0.05 | % | |
| 93106010 | SL | TOC, EPA 415.1 | TOTAL ORGANIC CARBON | 12000 | 29 | mg/kg | |
| 93106011 | SL | TOC, EPA 415.1 | TOTAL ORGANIC CARBON | 0.8 | 0.05 | % | |
| 93106012 | SL | TOC, EPA 415.1 | TOTAL ORGANIC CARBON | 0.94 | 0.05 | % | |
| 93106013 | SL | TOC, EPA 415.1 | TOTAL ORGANIC CARBON | 0.13 | 0.05 | % | |
| 93106013 | SR | TOC, EPA 415.1 | TOTAL ORGANIC CARBON | 0.14 | 0.05 | % | |
| 93106070 | SL | TOC, EPA 415.1 | TOTAL ORGANIC CARBON | 0.86 | 0.05 | % | |
| 93106071 | SL | TOC, EPA 415.1 | TOTAL ORGANIC CARBON | 0.2 | 0.05 | % | |
| 93106072 | SL | TOC, EPA 415.1 | TOTAL ORGANIC CARBON | 0.39 | 0.05 | % | |
| 93106073 | SL | TOC, EPA 415.1 | TOTAL ORGANIC CARBON | 0.37 | 0.05 | % | |
| 93106074 | SL | TOC, EPA 415.1 | TOTAL ORGANIC CARBON | 0.46 | 0.05 | % | |
| 93106075 | SL | TOC, EPA 415.1 | TOTAL ORGANIC CARBON | 0.16 | 0.05 | % | |
| 93106076 | SL | TOC, EPA 415.1 | TOTAL ORGANIC CARBON | 0.34 | 0.05 | % | |
| 93106100 | SL | TOC, EPA 415.1 | TOTAL ORGANIC CARBON | 0.2 | 0.05 | % | |
| 93106001 | SL | TS, EPA 160.3 | PERCENT SOLIDS | 93 | 0.1 | % | |
| 93106001 | SR | TS, EPA 160.3 | PERCENT SOLIDS | 90.6 | 0.1 | % | |
| 93106002 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 91 | | % | |
| 93106002 | SR | TS, EPA 160.3 | PERCENT SOLIDS | 87.9 | 0.1 | % | |
| 93106003 | SR | TS, EPA 160.3 | PERCENT SOLIDS | 84.5 | 0.1 | % | |
| 93106004 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 83.8 | | % | |
| 93106004 | SR | TS, EPA 160.3 | PERCENT SOLIDS | 85.8 | 0.1 | % | |
| 93106005 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 80.4 | | % | |
| 93106005 | SR | TS, EPA 160.3 | PERCENT SOLIDS | 77.6 | 0.1 | % | |
| 93106006 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 93.6 | | % | |
| 93106006 | SR | TS, EPA 160.3 | TOTAL SOLIDS | 92.3 | | % | |
| 93106029 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 84.3 | | % | |
| 93106007 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 95.1 | | % | |
| 93106007 | SR | TS, EPA 160.3 | TOTAL SOLIDS | 96.8 | | % | |
| 93106008 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 62.9 | | % | |
| 93106008 | SR | TS, EPA 160.3 | TOTAL SOLIDS | 92 | | % | |
| 93106009 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 79.2 | | % | |
| 93106009 | SR | TS, EPA 160.3 | TOTAL SOLIDS | 83.5 | | % | |
| 93106010 | SL | TS, EPA 160.3 | PERCENT SOLIDS | 86.3 | 0.1 | % | |
| 93106011 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 83 | | % | |
| 93106012 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 83.4 | | % | |
| 93106013 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 90.7 | | % | |
| 93106013 | SR | TS, EPA 160.3 | TOTAL SOLIDS | 95.5 | | % | |
| 93106030 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 81.4 | | % | |
| 93106017 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 96.9 | | % | |
| 93106017 | SR | TS, EPA 160.3 | TOTAL SOLIDS | 98 | | % | |
| 93106018 | SL | TS, EPA 160.3 | PERCENT SOLIDS | 90.6 | 0.1 | % | |
| 93106019 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 88.7 | | % | |
| 93106020 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 90.4 | | % | |
| 93106022 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 89.9 | | % | |
| 93106018 | SR | TS, EPA 160.3 | TOTAL SOLIDS | 77.7 | | % | |
| 93106019 | SR | TS, EPA 160.3 | PERCENT SOLIDS | 81 | 0.1 | % | |
| 93106023 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 89.7 | | % | |
| 93106021 | SR | TS, EPA 160.3 | TOTAL SOLIDS | 88.8 | | % | |
| 93106023 | SR | TS, EPA 160.3 | TOTAL SOLIDS | 91.3 | | % | |
| 93106024 | SR | TS, EPA 160.3 | TOTAL SOLIDS | 95.6 | | % | |
| 93106025 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 96.7 | | % | |
| 93106025 | SR | TS, EPA 160.3 | TOTAL SOLIDS | 91.8 | | % | |
| 93106026 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 80.6 | | % | |
| 93106026 | SR | TS, EPA 160.3 | TOTAL SOLIDS | 85.7 | | % | |
| 93106027 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 93 | | % | |
| 93106027 | SR | TS, EPA 160.3 | TOTAL SOLIDS | 90.1 | | % | |
| 93106028 | SR | TS, EPA 160.3 | TOTAL SOLIDS | 93.8 | | % | |
| 93106029 | SR | TS, EPA 160.3 | TOTAL SOLIDS | 86.9 | | % | |
| 93106030 | SR | TS, EPA 160.3 | TOTAL SOLIDS | 91.2 | | % | |
| 93106031 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 91.6 | | % | |
| 93106031 | SR | TS, EPA 160.3 | TOTAL SOLIDS | 91.1 | | % | |
| 93106032 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 69.3 | | % | |
| 93106032 | SR | TS, EPA 160.3 | PERCENT SOLIDS | 76.8 | 0.1 | % | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 93106033 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 81.5 | | % | |
| 93106033 | SR | TS, EPA 160.3 | TOTAL SOLIDS | 91.1 | | % | |
| 93106034 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 91.2 | | % | |
| 93106034 | SR | TS, EPA 160.3 | TOTAL SOLIDS | 92.8 | | % | |
| 93106035 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 79.9 | | % | |
| 93106036 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 95.9 | | % | |
| 93106036 | SR | TS, EPA 160.3 | TOTAL SOLIDS | 96.9 | | % | |
| 93106037 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 95.4 | | % | |
| 93106037 | SR | TS, EPA 160.3 | TOTAL SOLIDS | 91.5 | | % | |
| 93106038 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 94 | | % | |
| 93106038 | SR | TS, EPA 160.3 | TOTAL SOLIDS | 92.5 | | % | |
| 93106047 | SR | TS, EPA 160.3 | TOTAL SOLIDS | 94.6 | | % | |
| 93106039 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 96.2 | | % | |
| 93106039 | SR | TS, EPA 160.3 | TOTAL SOLIDS | 94.6 | | % | |
| 93106040 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 82.6 | | % | |
| 93106040 | SR | TS, EPA 160.3 | TOTAL SOLIDS | 84.5 | | % | |
| 93106048 | SR | TS, EPA 160.3 | PERCENT SOLIDS | 81.5 | 0.1 | % | |
| 93106041 | SR | TS, EPA 160.3 | TOTAL SOLIDS | 95 | | % | |
| 93106050 | SR | TS, EPA 160.3 | TOTAL SOLIDS | 88.2 | | % | |
| 93106041 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 85.3 | | % | |
| 93106042 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 94.9 | | % | |
| 93106042 | SR | TS, EPA 160.3 | TOTAL SOLIDS | 94 | | % | |
| 93106043 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 81.1 | | % | |
| 93106053 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 96.5 | | % | |
| 93106053 | SR | TS, EPA 160.3 | TOTAL SOLIDS | 92.9 | | % | |
| 93106054 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 90 | | % | |
| 93106054 | SR | TS, EPA 160.3 | TOTAL SOLIDS | 80.6 | | % | |
| 93106055 | SR | TS, EPA 160.3 | TOTAL SOLIDS | 94 | | % | |
| 93106055 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 76.7 | | % | |
| 93106056 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 64.1 | | % | |
| 93106056 | SR | TS, EPA 160.3 | TOTAL SOLIDS | 93.3 | | % | |
| 93106057 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 82.4 | | % | |
| 93106058 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 97.8 | | % | |
| 93106058 | SR | TS, EPA 160.3 | TOTAL SOLIDS | 93 | | % | |
| 93106059 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 96.7 | | % | |
| 93106059 | SR | TS, EPA 160.3 | TOTAL SOLIDS | 80.9 | | % | |
| 93106060 | SR | TS, EPA 160.3 | TOTAL SOLIDS | 88.7 | | % | |
| 93106060 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 78.3 | | % | |
| 93106061 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 94.1 | | % | |
| 93106061 | SR | TS, EPA 160.3 | TOTAL SOLIDS | 94.5 | | % | |
| 93106062 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 76 | | % | |
| 93106063 | SL | TS, EPA 160.3 | PERCENT SOLIDS | 97.7 | 0.1 | % | |
| 93106063 | SR | TS, EPA 160.3 | PERCENT SOLIDS | 97.6 | 0.1 | % | |
| 93106064 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 97.6 | | % | |
| 93106064 | SR | TS, EPA 160.3 | TOTAL SOLIDS | 96.9 | | % | |
| 93106065 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 97.1 | | % | |
| 93106065 | SR | TS, EPA 160.3 | TOTAL SOLIDS | 95.6 | | % | |
| 93106066 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 93 | | % | |
| 93106066 | SR | TS, EPA 160.3 | TOTAL SOLIDS | 93 | | % | |
| 93106067 | SR | TS, EPA 160.3 | TOTAL SOLIDS | 91.6 | | % | |
| 93106067 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 93.4 | | % | |
| 93106068 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 92.6 | | % | |
| 93106068 | SR | TS, EPA 160.3 | TOTAL SOLIDS | 84.9 | | % | |
| 93106069 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 87.4 | | % | |
| 93106069 | SR | TS, EPA 160.3 | TOTAL SOLIDS | 93.2 | | % | |
| 93106070 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 89.9 | | % | |
| 93106071 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 86.9 | | % | |
| 93106071 | SR | TS, EPA 160.3 | TOTAL SOLIDS | 83.9 | | % | |
| 93106072 | SR | TS, EPA 160.3 | TOTAL SOLIDS | 91.5 | | % | |
| 93106072 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 90.5 | | % | |
| 93106073 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 94 | | % | |
| 93106074 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 91.3 | | % | |
| 93106075 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 91.3 | | % | |
| 93106073 | SR | TS, EPA 160.3 | TOTAL SOLIDS | 94.4 | | % | |
| 93106076 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 93.6 | | % | |
| 93106080 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 88.3 | | % | |
| 93106081 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 94.5 | | % | |
| 93106082 | SL | TS, EPA 160.3 | PERCENT SOLIDS | 84.3 | 0.1 | % | |
| 93106083 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 83.4 | | % | |
| 93106084 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 83.2 | | % | |
| 93106085 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 86.8 | | % | |
| 93106086 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 87 | | % | |
| 93106087 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 96.1 | | % | |
| 93106077 | SR | TS, EPA 160.3 | PERCENT SOLIDS | 96.6 | 0.1 | % | |

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|---|---|---|---|---|---|---|---|
| 93106088 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 97.3 | | % | |
| 93106089 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 63.7 | | % | |
| 93106079 | SR | TS, EPA 160.3 | TOTAL SOLIDS | 94.3 | | % | |
| 93106080 | SR | TS, EPA 160.3 | TOTAL SOLIDS | 95.5 | | % | |
| 93106090 | SL | TS, EPA 160.3 | PERCENT SOLIDS | 89.9 | 0.1 | % | |
| 93106091 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 93.4 | | % | |
| 93106092 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 93.3 | | % | |
| 93106081 | SR | TS, EPA 160.3 | TOTAL SOLIDS | 88.5 | | % | |
| 93106093 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 93.6 | | % | |
| 93106082 | SR | TS, EPA 160.3 | TOTAL SOLIDS | 95.1 | | % | |
| 93106094 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 95.6 | | % | |
| 93106083 | SR | TS, EPA 160.3 | TOTAL SOLIDS | 96 | | % | |
| 93106095 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 96.1 | | % | |
| 93106096 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 82.3 | | % | |
| 93106097 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 98.7 | | % | |
| 93106098 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 96.1 | | % | |
| 93106099 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 95 | | % | |
| 93106100 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 94 | | % | |
| 93106102 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 93.2 | | % | |
| 93106105 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 88.2 | | % | |
| 93106088 | SL | TS, EPA 160.3 | PERCENT SOLIDS | 96.4 | 0.1 | % | |
| 93106106 | SR | TS, EPA 160.3 | TOTAL SOLIDS | 95.1 | | % | |
| 93106107 | SL | TS, EPA 160.3 | PERCENT SOLIDS | 83.3 | 0.1 | % | |
| 93106108 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 84.9 | | % | |
| 93106110 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 81.6 | | % | |
| 93106111 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 96.4 | | % | |
| 93106112 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 96 | | % | |
| 93106113 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 88.8 | | % | |
| 93106114 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 95 | | % | |
| 93106115 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 86.7 | | % | |
| 93106116 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 94.7 | | % | |
| 93106117 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 96.3 | | % | |
| 93106119 | SL | TS, EPA 160.3 | TOTAL SOLIDS | 86.5 | | % | |
| 93106007 | SL | SVO, EPA 8270 | 1,2,4-TRICHLOROBENZENE | ND | 1.5 | mg/kg | |
| 93106007 | SL | SVO, EPA 8270 | 1,2-DICHLOROBENZENE | ND | 1.5 | mg/kg | |
| 93106007 | SL | SVO, EPA 8270 | 1,3-DICHLOROBENZENE | ND | 1.5 | mg/kg | |
| 93106007 | SL | SVO, EPA 8270 | 1,4-DICHLOROBENZENE | ND | 1.5 | mg/kg | |
| 93106007 | SL | SVO, EPA 8270 | 2,4,5-TRICHLOROPHENOL | ND | 1.5 | mg/kg | |
| 93106007 | SL | SVO, EPA 8270 | 2,4,6-TRICHLOROPHENOL | ND | 1.5 | mg/kg | |
| 93106007 | SL | SVO, EPA 8270 | 2,4-DICHLOROPHENOL | ND | 1.5 | mg/kg | |
| 93106007 | SL | SVO, EPA 8270 | 2,4-DIMETHYLPHENOL | ND | 1.5 | mg/kg | |
| 93106007 | SL | SVO, EPA 8270 | 2,4-DINITROPHENOL | ND | 10 | mg/kg | |
| 93106007 | SL | SVO, EPA 8270 | 2,4-DINITROTOLUENE | ND | 1.5 | mg/kg | |
| 93106007 | SL | SVO, EPA 8270 | 2,6-DINITROTOLUENE | ND | 1.5 | mg/kg | |
| 93106007 | SL | SVO, EPA 8270 | 2-CHLORONAPHTHALENE | ND | 1.5 | mg/kg | |
| 93106007 | SL | SVO, EPA 8270 | 2-CHLOROPHENOL | ND | 1.5 | mg/kg | |
| 93106007 | SL | SVO, EPA 8270 | 2-METHYLNAPHTHALENE | ND | 1.5 | mg/kg | |
| 93106007 | SL | SVO, EPA 8270 | 2-METHYLPHENOL | ND | 1.5 | mg/kg | |
| 93106007 | SL | SVO, EPA 8270 | 2-NITROANILINE | ND | 10 | mg/kg | |
| 93106007 | SL | SVO, EPA 8270 | 2-NITROPHENOL | ND | 1.5 | mg/kg | |
| 93106007 | SL | SVO, EPA 8270 | 3,3'-DICHLOROBENZIDINE | ND | 10 | mg/kg | |
| 93106007 | SL | SVO, EPA 8270 | 3-NITROANILINE | ND | 10 | mg/kg | |
| 93106007 | SL | SVO, EPA 8270 | 4,6-DINITRO-2-METHYLPHENOL | ND | 10 | mg/kg | |
| 93106007 | SL | SVO, EPA 8270 | 4-BROMOPHENYL PHENYL ETHER | ND | 1.5 | mg/kg | |
| 93106007 | SL | SVO, EPA 8270 | 4-CHLORO-3-METHYLPHENOL | ND | 1.5 | mg/kg | |
| 93106007 | SL | SVO, EPA 8270 | 4-CHLOROANILINE | ND | 1.5 | mg/kg | |
| 93106007 | SL | SVO, EPA 8270 | 4-CHLOROPHENYL PHENYL ETHER | ND | 1.5 | mg/kg | |
| 93106007 | SL | SVO, EPA 8270 | 4-METHYLPHENOL | ND | 1.5 | mg/kg | |
| 93106007 | SL | SVO, EPA 8270 | 4-NITROANILINE | ND | 10 | mg/kg | |
| 93106007 | SL | SVO, EPA 8270 | 4-NITROPHENOL | ND | 10 | mg/kg | |
| 93106007 | SL | SVO, EPA 8270 | ACENAPHTHENE | ND | 1.5 | mg/kg | |
| 93106007 | SL | SVO, EPA 8270 | ACENAPHTHYLENE | ND | 1.5 | mg/kg | |
| 93106007 | SL | SVO, EPA 8270 | ANILINE | ND | 5 | mg/kg | |
| 93106007 | SL | SVO, EPA 8270 | ANTHRACENE | ND | 1.5 | mg/kg | |
| 93106007 | SL | SVO, EPA 8270 | BENZO(A)ANTHRACENE | ND | 1.5 | mg/kg | |
| 93106007 | SL | SVO, EPA 8270 | BENZO(A)PYRENE | ND | 1.5 | mg/kg | |
| 93106007 | SL | SVO, EPA 8270 | BENZO(B)FLUORANTHENE | ND | 1.5 | mg/kg | |
| 93106007 | SL | SVO, EPA 8270 | BENZO(GHI)PERYLENE | ND | 1.5 | mg/kg | |
| 93106007 | SL | SVO, EPA 8270 | BENZO(K)FLUORANTHENE | ND | 1.5 | mg/kg | |
| 93106007 | SL | SVO, EPA 8270 | BENZOIC ACID | ND | 10 | mg/kg | |
| 93106007 | SL | SVO, EPA 8270 | BENZYL ALCOHOL | ND | 1.5 | mg/kg | |
| 93106007 | SL | SVO, EPA 8270 | BENZYL BUTYL PHTHALATE | ND | 1.5 | mg/kg | |
| 93106007 | SL | SVO, EPA 8270 | BIS(2-CHLOROETHOXY) METHANE | ND | 1.5 | mg/kg | |
| 93106007 | SL | SVO, EPA 8270 | BIS(2-CHLOROETHYL) ETHER | ND | 1.5 | mg/kg | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 93106007 | SL | SVO, EPA 8270 | BIS(2-CHLOROISOPROPYL) ETHER | ND | 1.5 | mg/kg | |
| 93106007 | SL | SVO, EPA 8270 | BIS(2-ETHYLHEXYL) PHTHALATE | ND | 1.5 | mg/kg | |
| 93106007 | SL | SVO, EPA 8270 | CHRYSENE | ND | 1.5 | mg/kg | |
| 93106007 | SL | SVO, EPA 8270 | DI-N-BUTYL PHTHALATE | ND | 1.5 | mg/kg | |
| 93106007 | SL | SVO, EPA 8270 | DI-N-OCTYL PHTHALATE | ND | 1.5 | mg/kg | |
| 93106007 | SL | SVO, EPA 8270 | DIBENZO(A,H)ANTHRACENE | ND | 1.5 | mg/kg | |
| 93106007 | SL | SVO, EPA 8270 | DIBENZOFURAN | ND | 1.5 | mg/kg | |
| 93106007 | SL | SVO, EPA 8270 | DIETHYL PHTHALATE | ND | 1.5 | mg/kg | |
| 93106007 | SL | SVO, EPA 8270 | DIMETHYL PHTHALATE | ND | 1.5 | mg/kg | |
| 93106007 | SL | SVO, EPA 8270 | FLUORANTHENE | ND | 1.5 | mg/kg | |
| 93106007 | SL | SVO, EPA 8270 | FLUORENE | ND | 1.5 | mg/kg | |
| 93106007 | SL | SVO, EPA 8270 | HEXACHLOROBENZENE | ND | 1.5 | mg/kg | |
| 93106007 | SL | SVO, EPA 8270 | HEXACHLOROBUTADIENE | ND | 1.5 | mg/kg | |
| 93106007 | SL | SVO, EPA 8270 | HEXACHLOROCYCLOPENTADIENE | ND | 1.5 | mg/kg | |
| 93106007 | SL | SVO, EPA 8270 | HEXACHLOROETHANE | ND | 1.5 | mg/kg | |
| 93106007 | SL | SVO, EPA 8270 | INDENO(1,2,3-CD)PYRENE | ND | 1.5 | mg/kg | |
| 93106007 | SL | SVO, EPA 8270 | ISOPHORONE | ND | 1.5 | mg/kg | |
| 93106007 | SL | SVO, EPA 8270 | N-NITROSO-DI-N-PROPYLAMINE | ND | 1.5 | mg/kg | |
| 93106007 | SL | SVO, EPA 8270 | N-NITROSODIMETHYLAMINE | ND | 10 | mg/kg | |
| 93106007 | SL | SVO, EPA 8270 | N-NITROSODIPHENYLAMINE | ND | 1.5 | mg/kg | |
| 93106007 | SL | SVO, EPA 8270 | NAPHTHALENE | ND | 1.5 | mg/kg | |
| 93106007 | SL | SVO, EPA 8270 | NITROBENZENE | ND | 1.5 | mg/kg | |
| 93106007 | SL | SVO, EPA 8270 | PENTACHLOROPHENOL | ND | 10 | mg/kg | |
| 93106007 | SL | SVO, EPA 8270 | PHENANTHRENE | ND | 1.5 | mg/kg | |
| 93106007 | SL | SVO, EPA 8270 | PHENOL | ND | 1.5 | mg/kg | |
| 93106007 | SL | SVO, EPA 8270 | PYRENE | ND | 1.5 | mg/kg | |
| 93106008 | SL | SVO, EPA 8270 | 1,2,4-TRICHLOROBENZENE | ND | 0.3 | mg/kg | |
| 93106008 | SL | SVO, EPA 8270 | 1,2-DICHLOROBENZENE | ND | 0.3 | mg/kg | |
| 93106008 | SL | SVO, EPA 8270 | 1,3-DICHLOROBENZENE | ND | 0.3 | mg/kg | |
| 93106008 | SL | SVO, EPA 8270 | 1,4-DICHLOROBENZENE | ND | 0.3 | mg/kg | |
| 93106008 | SL | SVO, EPA 8270 | 2,4,5-TRICHLOROPHENOL | ND | 0.3 | mg/kg | |
| 93106008 | SL | SVO, EPA 8270 | 2,4,6-TRICHLOROPHENOL | ND | 0.3 | mg/kg | |
| 93106008 | SL | SVO, EPA 8270 | 2,4-DICHLOROPHENOL | ND | 0.3 | mg/kg | |
| 93106008 | SL | SVO, EPA 8270 | 2,4-DIMETHYLPHENOL | ND | 0.3 | mg/kg | |
| 93106008 | SL | SVO, EPA 8270 | 2,4-DINITROPHENOL | ND | 2 | mg/kg | |
| 93106008 | SL | SVO, EPA 8270 | 2,4-DINITROTOLUENE | ND | 0.3 | mg/kg | |
| 93106008 | SL | SVO, EPA 8270 | 2,6-DINITROTOLUENE | ND | 0.3 | mg/kg | |
| 93106008 | SL | SVO, EPA 8270 | 2-CHLORONAPHTHALENE | ND | 0.3 | mg/kg | |
| 93106008 | SL | SVO, EPA 8270 | 2-CHLOROPHENOL | ND | 0.3 | mg/kg | |
| 93106008 | SL | SVO, EPA 8270 | 2-METHYLNAPHTHALENE | ND | 0.3 | mg/kg | |
| 93106008 | SL | SVO, EPA 8270 | 2-METHYLPHENOL | ND | 0.3 | mg/kg | |
| 93106008 | SL | SVO, EPA 8270 | 2-NITROANILINE | ND | 2 | mg/kg | |
| 93106008 | SL | SVO, EPA 8270 | 2-NITROPHENOL | ND | 0.3 | mg/kg | |
| 93106008 | SL | SVO, EPA 8270 | 3,3'-DICHLOROBENZIDINE | ND | 2 | mg/kg | |
| 93106008 | SL | SVO, EPA 8270 | 3-NITROANILINE | ND | 2 | mg/kg | |
| 93106008 | SL | SVO, EPA 8270 | 4,6-DINITRO-2-METHYLPHENOL | ND | 2 | mg/kg | |
| 93106008 | SL | SVO, EPA 8270 | 4-BROMOPHENYL PHENYL ETHER | ND | 0.3 | mg/kg | |
| 93106008 | SL | SVO, EPA 8270 | 4-CHLORO-3-METHYLPHENOL | ND | 0.3 | mg/kg | |
| 93106008 | SL | SVO, EPA 8270 | 4-CHLOROANILINE | ND | 0.3 | mg/kg | |
| 93106008 | SL | SVO, EPA 8270 | 4-CHLOROPHENYL PHENYL ETHER | ND | 0.3 | mg/kg | |
| 93106008 | SL | SVO, EPA 8270 | 4-METHYLPHENOL | ND | 0.3 | mg/kg | |
| 93106008 | SL | SVO, EPA 8270 | 4-NITROANILINE | ND | 2 | mg/kg | |
| 93106008 | SL | SVO, EPA 8270 | 4-NITROPHENOL | ND | 2 | mg/kg | |
| 93106008 | SL | SVO, EPA 8270 | ACENAPHTHENE | ND | 0.3 | mg/kg | |
| 93106008 | SL | SVO, EPA 8270 | ACENAPHTHYLENE | ND | 0.3 | mg/kg | |
| 93106008 | SL | SVO, EPA 8270 | ANILINE | ND | 1 | mg/kg | |
| 93106008 | SL | SVO, EPA 8270 | ANTHRACENE | ND | 0.3 | mg/kg | |
| 93106008 | SL | SVO, EPA 8270 | BENZO(A)ANTHRACENE | ND | 0.3 | mg/kg | |
| 93106008 | SL | SVO, EPA 8270 | BENZO(A)PYRENE | ND | 0.3 | mg/kg | |
| 93106008 | SL | SVO, EPA 8270 | BENZO(B)FLUORANTHENE | ND | 0.3 | mg/kg | |
| 93106008 | SL | SVO, EPA 8270 | BENZO(GHI)PERYLENE | ND | 0.3 | mg/kg | |
| 93106008 | SL | SVO, EPA 8270 | BENZO(K)FLUORANTHENE | ND | 0.3 | mg/kg | |
| 93106008 | SL | SVO, EPA 8270 | BENZOIC ACID | ND | 2 | mg/kg | |
| 93106008 | SL | SVO, EPA 8270 | BENZYL ALCOHOL | ND | 0.3 | mg/kg | |
| 93106008 | SL | SVO, EPA 8270 | BENZYL BUTYL PHTHALATE | ND | 0.3 | mg/kg | |
| 93106008 | SL | SVO, EPA 8270 | BIS(2-CHLOROETHOXY) METHANE | ND | 0.3 | mg/kg | |
| 93106008 | SL | SVO, EPA 8270 | BIS(2-CHLOROETHYL) ETHER | ND | 0.3 | mg/kg | |
| 93106008 | SL | SVO, EPA 8270 | BIS(2-CHLOROISOPROPYL) ETHER | ND | 0.3 | mg/kg | |
| 93106008 | SL | SVO, EPA 8270 | BIS(2-ETHYLHEXYL) PHTHALATE | ND | 0.3 | mg/kg | |
| 93106008 | SL | SVO, EPA 8270 | CHRYSENE | ND | 0.3 | mg/kg | |
| 93106008 | SL | SVO, EPA 8270 | DI-N-BUTYL PHTHALATE | ND | 0.3 | mg/kg | |
| 93106008 | SL | SVO, EPA 8270 | DI-N-OCTYL PHTHALATE | ND | 0.3 | mg/kg | |
| 93106008 | SL | SVO, EPA 8270 | DIBENZO(A,H)ANTHRACENE | ND | 0.3 | mg/kg | |
| 93106008 | SL | SVO, EPA 8270 | DIBENZOFURAN | ND | 0.3 | mg/kg | |

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|---|---|---|---|---|---|---|---|
| 93106008 | SL | SVO, EPA 8270 | DIETHYL PHTHALATE | ND | 0.3 | mg/kg | |
| 93106008 | SL | SVO, EPA 8270 | DIMETHYL PHTHALATE | ND | 0.3 | mg/kg | |
| 93106008 | SL | SVO, EPA 8270 | FLUORANTHENE | ND | 0.3 | mg/kg | |
| 93106008 | SL | SVO, EPA 8270 | FLUORENE | ND | 0.3 | mg/kg | |
| 93106008 | SL | SVO, EPA 8270 | HEXACHLOROBENZENE | ND | 0.3 | mg/kg | |
| 93106008 | SL | SVO, EPA 8270 | HEXACHLOROBUTADIENE | ND | 0.3 | mg/kg | |
| 93106008 | SL | SVO, EPA 8270 | HEXACHLOROCYCLOPENTADIENE | ND | 0.3 | mg/kg | |
| 93106008 | SL | SVO, EPA 8270 | HEXACHLOROETHANE | ND | 0.3 | mg/kg | |
| 93106008 | SL | SVO, EPA 8270 | INDENO(1,2,3-CD)PYRENE | ND | 0.3 | mg/kg | |
| 93106008 | SL | SVO, EPA 8270 | ISOPHORONE | ND | 0.3 | mg/kg | |
| 93106008 | SL | SVO, EPA 8270 | N-NITROSO-DI-N-PROPYLAMINE | ND | 0.3 | mg/kg | |
| 93106008 | SL | SVO, EPA 8270 | N-NITROSODIMETHYLAMINE | ND | 2 | mg/kg | |
| 93106008 | SL | SVO, EPA 8270 | N-NITROSODIPHENYLAMINE | ND | 0.3 | mg/kg | |
| 93106008 | SL | SVO, EPA 8270 | NAPHTHALENE | ND | 0.3 | mg/kg | |
| 93106008 | SL | SVO, EPA 8270 | NITROBENZENE | ND | 0.3 | mg/kg | |
| 93106008 | SL | SVO, EPA 8270 | PENTACHLOROPHENOL | ND | 2 | mg/kg | |
| 93106008 | SL | SVO, EPA 8270 | PHENANTHRENE | ND | 0.3 | mg/kg | |
| 93106008 | SL | SVO, EPA 8270 | PHENOL | ND | 0.3 | mg/kg | |
| 93106008 | SL | SVO, EPA 8270 | PYRENE | ND | 0.3 | mg/kg | |
| 93106009 | SL | SVO, EPA 8270 | 1,2,4-TRICHLOROBENZENE | ND | 8 | mg/kg | |
| 93106009 | SL | SVO, EPA 8270 | 1,2-DICHLOROBENZENE | ND | 8 | mg/kg | |
| 93106009 | SL | SVO, EPA 8270 | 1,3-DICHLOROBENZENE | ND | 8 | mg/kg | |
| 93106009 | SL | SVO, EPA 8270 | 1,4-DICHLOROBENZENE | ND | 8 | mg/kg | |
| 93106009 | SL | SVO, EPA 8270 | 2,4,5-TRICHLOROPHENOL | ND | 8 | mg/kg | |
| 93106009 | SL | SVO, EPA 8270 | 2,4,6-TRICHLOROPHENOL | ND | 8 | mg/kg | |
| 93106009 | SL | SVO, EPA 8270 | 2,4-DICHLOROPHENOL | ND | 8 | mg/kg | |
| 93106009 | SL | SVO, EPA 8270 | 2,4-DIMETHYLPHENOL | ND | 8 | mg/kg | |
| 93106009 | SL | SVO, EPA 8270 | 2,4-DINITROPHENOL | ND | 50 | mg/kg | |
| 93106009 | SL | SVO, EPA 8270 | 2,4-DINITROTOLUENE | ND | 8 | mg/kg | |
| 93106009 | SL | SVO, EPA 8270 | 2,6-DINITROTOLUENE | ND | 8 | mg/kg | |
| 93106009 | SL | SVO, EPA 8270 | 2-CHLORONAPHTHALENE | ND | 8 | mg/kg | |
| 93106009 | SL | SVO, EPA 8270 | 2-CHLOROPHENOL | ND | 8 | mg/kg | |
| 93106009 | SL | SVO, EPA 8270 | 2-METHYLNAPHTHALENE | ND | 8 | mg/kg | |
| 93106009 | SL | SVO, EPA 8270 | 2-METHYLPHENOL | ND | 8 | mg/kg | |
| 93106009 | SL | SVO, EPA 8270 | 2-NITROANILINE | ND | 50 | mg/kg | |
| 93106009 | SL | SVO, EPA 8270 | 2-NITROPHENOL | ND | 8 | mg/kg | |
| 93106009 | SL | SVO, EPA 8270 | 3,3'-DICHLOROBENZIDINE | ND | 50 | mg/kg | |
| 93106009 | SL | SVO, EPA 8270 | 3-NITROANILINE | ND | 50 | mg/kg | |
| 93106009 | SL | SVO, EPA 8270 | 4,6-DINITRO-2-METHYLPHENOL | ND | 50 | mg/kg | |
| 93106009 | SL | SVO, EPA 8270 | 4-BROMOPHENYL PHENYL ETHER | ND | 8 | mg/kg | |
| 93106009 | SL | SVO, EPA 8270 | 4-CHLORO-3-METHYLPHENOL | ND | 8 | mg/kg | |
| 93106009 | SL | SVO, EPA 8270 | 4-CHLOROANILINE | ND | 8 | | |
| 93106009 | SL | SVO, EPA 8270 | 4-CHLOROPHENYL PHENYL ETHER | ND | 8 | | |
| 93106009 | SL | SVO, EPA 8270 | 4-METHYLPHENOL | ND | 8 | | |
| 93106009 | SL | SVO, EPA 8270 | 4-NITROANILINE | ND | 50 | | |
| 93106009 | SL | SVO, EPA 8270 | 4-NITROPHENOL | ND | 50 | | |
| 93106009 | SL | SVO, EPA 8270 | ACENAPHTHENE | ND | 8 | | |
| 93106009 | SL | SVO, EPA 8270 | ACENAPHTHYLENE | ND | 8 | | |
| 93106009 | SL | SVO, EPA 8270 | ANILINE | ND | 25 | mg/kg | |
| 93106009 | SL | SVO, EPA 8270 | ANTHRACENE | ND | 8 | mg/kg | |
| 93106009 | SL | SVO, EPA 8270 | BENZO(A)ANTHRACENE | ND | 8 | mg/kg | |
| 93106009 | SL | SVO, EPA 8270 | BENZO(A)PYRENE | ND | 8 | mg/kg | |
| 93106009 | SL | SVO, EPA 8270 | BENZO(B)FLUORANTHENE | ND | 8 | mg/kg | |
| 93106009 | SL | SVO, EPA 8270 | BENZO(GHI)PERYLENE | ND | 8 | mg/kg | |
| 93106009 | SL | SVO, EPA 8270 | BENZO(K)FLUORANTHENE | ND | 8 | mg/kg | |
| 93106009 | SL | SVO, EPA 8270 | BENZOIC ACID | ND | 50 | mg/kg | |
| 93106009 | SL | SVO, EPA 8270 | BENZYL ALCOHOL | ND | 8 | mg/kg | |
| 93106009 | SL | SVO, EPA 8270 | BENZYL BUTYL PHTHALATE | ND | 8 | mg/kg | |
| 93106009 | SL | SVO, EPA 8270 | BIS(2-CHLOROETHOXY) METHANE | ND | 8 | mg/kg | |
| 93106009 | SL | SVO, EPA 8270 | BIS(2-CHLOROETHYL) ETHER | ND | 8 | mg/kg | |
| 93106009 | SL | SVO, EPA 8270 | BIS(2-CHLOROISOPROPYL) ETHER | ND | 8 | mg/kg | |
| 93106009 | SL | SVO, EPA 8270 | BIS(2-ETHYLHEXYL) PHTHALATE | ND | 8 | mg/kg | |
| 93106009 | SL | SVO, EPA 8270 | CHRYSENE | ND | 8 | mg/kg | |
| 93106009 | SL | SVO, EPA 8270 | DI-N-BUTYL PHTHALATE | ND | 8 | mg/kg | |
| 93106009 | SL | SVO, EPA 8270 | DI-N-OCTYL PHTHALATE | ND | 8 | mg/kg | |
| 93106009 | SL | SVO, EPA 8270 | DIBENZO(A,H)ANTHRACENE | ND | 8 | mg/kg | |
| 93106009 | SL | SVO, EPA 8270 | DIBENZOFURAN | ND | 8 | mg/kg | |
| 93106009 | SL | SVO, EPA 8270 | DIETHYL PHTHALATE | ND | 8 | mg/kg | |
| 93106009 | SL | SVO, EPA 8270 | DIMETHYL PHTHALATE | ND | 8 | mg/kg | |
| 93106009 | SL | SVO, EPA 8270 | FLUORANTHENE | ND | 8 | mg/kg | |
| 93106009 | SL | SVO, EPA 8270 | FLUORENE | ND | 8 | mg/kg | |
| 93106009 | SL | SVO, EPA 8270 | HEXACHLOROBENZENE | ND | 8 | mg/kg | |
| 93106009 | SL | SVO, EPA 8270 | HEXACHLOROBUTADIENE | ND | 8 | mg/kg | |
| 93106009 | SL | SVO, EPA 8270 | HEXACHLOROCYCLOPENTADIENE | ND | 8 | mg/kg | |

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|---|---|---|---|---|---|---|---|
| 93106009 | SL | SVO, EPA 8270 | HEXACHLOROETHANE | ND | 8 | mg/kg | |
| 93106009 | SL | SVO, EPA 8270 | INDENO(1,2,3-CD)PYRENE | ND | 8 | mg/kg | |
| 93106009 | SL | SVO, EPA 8270 | ISOPHORONE | ND | 8 | mg/kg | |
| 93106009 | SL | SVO, EPA 8270 | N-NITROSO-DI-N-PROPYLAMINE | ND | 8 | mg/kg | |
| 93106009 | SL | SVO, EPA 8270 | N-NITROSODIMETHYLAMINE | ND | 50 | mg/kg | |
| 93106009 | SL | SVO, EPA 8270 | N-NITROSODIPHENYLAMINE | ND | 8 | mg/kg | |
| 93106009 | SL | SVO, EPA 8270 | NAPHTHALENE | ND | 8 | mg/kg | |
| 93106009 | SL | SVO, EPA 8270 | NITROBENZENE | ND | 8 | mg/kg | |
| 93106009 | SL | SVO, EPA 8270 | PENTACHLOROPHENOL | ND | 50 | mg/kg | |
| 93106009 | SL | SVO, EPA 8270 | PHENANTHRENE | ND | 8 | mg/kg | |
| 93106009 | SL | SVO, EPA 8270 | PHENOL | ND | 8 | mg/kg | |
| 93106009 | SL | SVO, EPA 8270 | PYRENE | ND | 8 | mg/kg | |
| 93106009 | SR | SVO, EPA 8270 | 1,2,4-TRICHLOROBENZENE | ND | 1.5 | mg/kg | |
| 93106009 | SR | SVO, EPA 8270 | 1,2-DICHLOROBENZENE | ND | 1.5 | mg/kg | |
| 93106009 | SR | SVO, EPA 8270 | 1,3-DICHLOROBENZENE | ND | 1.5 | mg/kg | |
| 93106009 | SR | SVO, EPA 8270 | 1,4-DICHLOROBENZENE | ND | 1.5 | mg/kg | |
| 93106009 | SR | SVO, EPA 8270 | 2,4,5-TRICHLOROPHENOL | ND | 1.5 | mg/kg | |
| 93106009 | SR | SVO, EPA 8270 | 2,4,6-TRICHLOROPHENOL | ND | 1.5 | mg/kg | |
| 93106009 | SR | SVO, EPA 8270 | 2,4-DICHLOROPHENOL | ND | 1.5 | mg/kg | |
| 93106009 | SR | SVO, EPA 8270 | 2,4-DIMETHYLPHENOL | ND | 1.5 | mg/kg | |
| 93106009 | SR | SVO, EPA 8270 | 2,4-DINITROPHENOL | ND | 10 | mg/kg | |
| 93106009 | SR | SVO, EPA 8270 | 2,4-DINITROTOLUENE | ND | 1.5 | mg/kg | |
| 93106009 | SR | SVO, EPA 8270 | 2,6-DINITROTOLUENE | ND | 1.5 | mg/kg | |
| 93106009 | SR | SVO, EPA 8270 | 2-CHLORONAPHTHALENE | ND | 1.5 | mg/kg | |
| 93106009 | SR | SVO, EPA 8270 | 2-CHLOROPHENOL | ND | 1.5 | mg/kg | |
| 93106009 | SR | SVO, EPA 8270 | 2-METHYLNAPHTHALENE | ND | 1.5 | mg/kg | |
| 93106009 | SR | SVO, EPA 8270 | 2-METHYLPHENOL | ND | 1.5 | mg/kg | |
| 93106009 | SR | SVO, EPA 8270 | 2-NITROANILINE | ND | 10 | mg/kg | |
| 93106009 | SR | SVO, EPA 8270 | 2-NITROPHENOL | ND | 1.5 | mg/kg | |
| 93106009 | SR | SVO, EPA 8270 | 3,3'-DICHLOROBENZIDINE | ND | 10 | mg/kg | |
| 93106009 | SR | SVO, EPA 8270 | 3-NITROANILINE | ND | 10 | mg/kg | |
| 93106009 | SR | SVO, EPA 8270 | 4,6-DINITRO-2-METHYLPHENOL | ND | 10 | mg/kg | |
| 93106009 | SR | SVO, EPA 8270 | 4-BROMOPHENYL PHENYL ETHER | ND | 1.5 | mg/kg | |
| 93106009 | SR | SVO, EPA 8270 | 4-CHLORO-3-METHYLPHENOL | ND | 1.5 | mg/kg | |
| 93106009 | SR | SVO, EPA 8270 | 4-CHLOROANILINE | ND | 1.5 | mg/kg | |
| 93106009 | SR | SVO, EPA 8270 | 4-CHLOROPHENYL PHENYL ETHER | ND | 1.5 | mg/kg | |
| 93106009 | SR | SVO, EPA 8270 | 4-METHYLPHENOL | ND | 1.5 | mg/kg | |
| 93106009 | SR | SVO, EPA 8270 | 4-NITROANILINE | ND | 10 | mg/kg | |
| 93106009 | SR | SVO, EPA 8270 | 4-NITROPHENOL | ND | 10 | mg/kg | |
| 93106009 | SR | SVO, EPA 8270 | ACENAPHTHENE | ND | 1.5 | mg/kg | |
| 93106009 | SR | SVO, EPA 8270 | ACENAPHTHYLENE | ND | 1.5 | mg/kg | |
| 93106009 | SR | SVO, EPA 8270 | ANILINE | ND | 5 | mg/kg | |
| 93106009 | SR | SVO, EPA 8270 | ANTHRACENE | ND | 1.5 | mg/kg | |
| 93106009 | SR | SVO, EPA 8270 | BENZO(A)ANTHRACENE | ND | 1.5 | mg/kg | |
| 93106009 | SR | SVO, EPA 8270 | BENZO(A)PYRENE | ND | 1.5 | mg/kg | |
| 93106009 | SR | SVO, EPA 8270 | BENZO(B)FLUORANTHENE | ND | 1.5 | mg/kg | |
| 93106009 | SR | SVO, EPA 8270 | BENZO(GHI)PERYLENE | ND | 1.5 | mg/kg | |
| 93106009 | SR | SVO, EPA 8270 | BENZO(K)FLUORANTHENE | ND | 1.5 | mg/kg | |
| 93106009 | SR | SVO, EPA 8270 | BENZOIC ACID | ND | 10 | mg/kg | |
| 93106009 | SR | SVO, EPA 8270 | BENZYL ALCOHOL | ND | 1.5 | mg/kg | |
| 93106009 | SR | SVO, EPA 8270 | BENZYL BUTYL PHTHALATE | ND | 1.5 | mg/kg | |
| 93106009 | SR | SVO, EPA 8270 | BIS(2-CHLOROETHOXY) METHANE | ND | 1.5 | mg/kg | |
| 93106009 | SR | SVO, EPA 8270 | BIS(2-CHLOROETHYL) ETHER | ND | 1.5 | mg/kg | |
| 93106009 | SR | SVO, EPA 8270 | BIS(2-CHLOROISOPROPYL) ETHER | ND | 1.5 | mg/kg | |
| 93106009 | SR | SVO, EPA 8270 | BIS(2-ETHYLHEXYL) PHTHALATE | ND | 1.5 | mg/kg | |
| 93106009 | SR | SVO, EPA 8270 | CHRYSENE | ND | 1.5 | mg/kg | |
| 93106009 | SR | SVO, EPA 8270 | DI-N-BUTYL PHTHALATE | ND | 1.5 | mg/kg | |
| 93106009 | SR | SVO, EPA 8270 | DI-N-OCTYL PHTHALATE | ND | 1.5 | mg/kg | |
| 93106009 | SR | SVO, EPA 8270 | DIBENZO(A,H)ANTHRACENE | ND | 1.5 | mg/kg | |
| 93106009 | SR | SVO, EPA 8270 | DIBENZOFURAN | ND | 1.5 | mg/kg | |
| 93106009 | SR | SVO, EPA 8270 | DIETHYL PHTHALATE | ND | 1.5 | mg/kg | |
| 93106009 | SR | SVO, EPA 8270 | DIMETHYL PHTHALATE | ND | 1.5 | mg/kg | |
| 93106009 | SR | SVO, EPA 8270 | FLUORANTHENE | ND | 1.5 | mg/kg | |
| 93106009 | SR | SVO, EPA 8270 | FLUORENE | ND | 1.5 | mg/kg | |
| 93106009 | SR | SVO, EPA 8270 | HEXACHLOROBENZENE | ND | 1.5 | mg/kg | |
| 93106009 | SR | SVO, EPA 8270 | HEXACHLOROBUTADIENE | ND | 1.5 | mg/kg | |
| 93106009 | SR | SVO, EPA 8270 | HEXACHLOROCYCLOPENTADIENE | ND | 1.5 | mg/kg | |
| 93106009 | SR | SVO, EPA 8270 | HEXACHLOROETHANE | ND | 1.5 | mg/kg | |
| 93106009 | SR | SVO, EPA 8270 | INDENO(1,2,3-CD)PYRENE | ND | 1.5 | mg/kg | |
| 93106009 | SR | SVO, EPA 8270 | ISOPHORONE | ND | 1.5 | mg/kg | |
| 93106009 | SR | SVO, EPA 8270 | N-NITROSO-DI-N-PROPYLAMINE | ND | 1.5 | mg/kg | |
| 93106009 | SR | SVO, EPA 8270 | N-NITROSODIMETHYLAMINE | ND | 10 | mg/kg | |
| 93106009 | SR | SVO, EPA 8270 | N-NITROSODIPHENYLAMINE | ND | 1.5 | mg/kg | |
| 93106009 | SR | SVO, EPA 8270 | NAPHTHALENE | ND | 1.5 | mg/kg | |

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|---|---|---|---|---|---|---|---|
| 93106009 | SR | SVO, EPA 8270 | NITROBENZENE | ND | 1.5 | mg/kg | |
| 93106009 | SR | SVO, EPA 8270 | PENTACHLOROPHENOL | ND | 10 | mg/kg | |
| 93106009 | SR | SVO, EPA 8270 | PHENANTHRENE | ND | 1.5 | mg/kg | |
| 93106009 | SR | SVO, EPA 8270 | PHENOL | ND | 1.5 | mg/kg | |
| 93106009 | SR | SVO, EPA 8270 | PYRENE | ND | 1.5 | mg/kg | |
| 93106010 | SL | SVO, EPA 8270 | 1,2,4-TRICHLOROBENZENE | ND | 380 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | 1,2-DICHLOROBENZENE | ND | 380 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | 1,3-DICHLOROBENZENE | ND | 380 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | 1,4-DICHLOROBENZENE | ND | 380 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | 2,4,5-TRICHLOROPHENOL | ND | 1900 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | 2,4,6-TRICHLOROPHENOL | ND | 380 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | 2,4-DICHLOROPHENOL | ND | 380 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | 2,4-DIMETHYLPHENOL | ND | 380 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | 2,4-DINITROPHENOL | ND | 1900 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | 2,4-DINITROTOLUENE | ND | 380 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | 2,6-DINITROTOLUENE | ND | 380 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | 2-CHLORONAPHTHALENE | ND | 380 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | 2-CHLOROPHENOL | ND | 380 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | 2-METHYLNAPHTHALENE | ND | 380 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | 2-METHYLPHENOL | ND | 380 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | 2-NITROANILINE | ND | 1900 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | 2-NITROPHENOL | ND | 380 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | 3,3'-DICHLOROBENZIDINE | ND | 770 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | 3-NITROANILINE | ND | 1900 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | 4,4'-DDD | ND | 1900 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | 4,4'-DDE | ND | 1900 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | 4,4'-DDT | ND | 1900 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | 4,6-DINITRO-2-METHYLPHENOL | ND | 1900 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | 4-BROMOPHENYL PHENYL ETHER | ND | 380 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | 4-CHLORO-3-METHYLPHENOL | ND | 380 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | 4-CHLOROANILINE | ND | 380 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | 4-CHLOROPHENYL PHENYL ETHER | ND | 380 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | 4-METHYLPHENOL | ND | 380 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | 4-NITROANILINE | ND | 1900 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | 4-NITROPHENOL | ND | 1900 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | ACENAPHTHENE | ND | 380 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | ACENAPHTHYLENE | ND | 380 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | ALDRIN | ND | 1900 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | ANTHRACENE | ND | 380 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | BENZYL ALCOHOL | ND | 380 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | BENZIDINE | ND | 1900 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | BENZO(A)ANTHRACENE | ND | 380 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | BENZO(A)PYRENE | ND | 380 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | BENZO(B)FLUORANTHENE | ND | 380 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | BENZO(GHI)PERYLENE | ND | 380 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | BENZO(K)FLUORANTHENE | ND | 380 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | BENZOIC ACID | ND | 1900 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | BIS(2-CHLOROETHOXY) METHANE | ND | 380 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | BIS(2-CHLOROETHYL) ETHER | ND | 380 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | BIS(2-CHLOROISOPROPYL) ETHER | ND | 380 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | BIS(2-ETHYLHEXYL) PHTHALATE | ND | 380 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | BUTYL BENZYL PHTHALATE | ND | 380 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | CHRYSENE | ND | 380 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | DELTA-BHC | ND | 1900 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | DI-N-BUTYL PHTHALATE | ND | 380 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | DI-N-OCTYL PHTHALATE | ND | 380 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | DIBENZO(A,H)ANTHRACENE | ND | 380 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | DIBENZOFURAN | ND | 380 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | DIELDRIN | ND | 1900 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | DIETHYL PHTHALATE | ND | 380 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | DIMETHYL PHTHALATE | ND | 380 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | ENDRIN ALDEHYDE | ND | 1900 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | FLUORANTHENE | ND | 380 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | FLUORENE | ND | 380 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | GAMMA-BHC | ND | 1900 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | HEPTACHLOR | ND | 1900 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | HEPTACHLOR EPOXIDE | ND | 1900 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | HEXACHLOROBENZENE | ND | 380 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | HEXACHLOROBUTADIENE | ND | 380 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | HEXACHLOROCYCLOPENTADIENE | ND | 380 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | HEXACHLOROETHANE | ND | 380 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | INDENO(1,2,3-CD)PYRENE | ND | 380 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | ISOPHORONE | ND | 380 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | N-NITROSO-DI-N-PROPYLAMINE | ND | 380 | ug/kg | |

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|---|---|---|---|---|---|---|---|
| 93106010 | SL | SVO, EPA 8270 | N-NITROSODIPHENYLAMINE | ND | 380 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | NAPHTHALENE | 8200 | 380 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | NITROBENZENE | ND | 380 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | PENTACHLOROPHENOL | ND | 1900 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | PHENANTHRENE | ND | 380 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | PHENOL | ND | 380 | ug/kg | |
| 93106010 | SL | SVO, EPA 8270 | PYRENE | ND | 380 | ug/kg | |
| 93106011 | SL | SVO, EPA 8270 | 1,2,4-TRICHLOROBENZENE | ND | 1.5 | mg/kg | |
| 93106011 | SL | SVO, EPA 8270 | 1,2-DICHLOROBENZENE | ND | 1.5 | mg/kg | |
| 93106011 | SL | SVO, EPA 8270 | 1,3-DICHLOROBENZENE | ND | 1.5 | mg/kg | |
| 93106011 | SL | SVO, EPA 8270 | 1,4-DICHLOROBENZENE | ND | 1.5 | mg/kg | |
| 93106011 | SL | SVO, EPA 8270 | 2,4,5-TRICHLOROPHENOL | ND | 1.5 | mg/kg | |
| 93106011 | SL | SVO, EPA 8270 | 2,4,6-TRICHLOROPHENOL | ND | 1.5 | mg/kg | |
| 93106011 | SL | SVO, EPA 8270 | 2,4-DICHLOROPHENOL | ND | 1.5 | mg/kg | |
| 93106011 | SL | SVO, EPA 8270 | 2,4-DIMETHYLPHENOL | ND | 1.5 | mg/kg | |
| 93106011 | SL | SVO, EPA 8270 | 2,4-DINITROPHENOL | ND | 10 | mg/kg | |
| 93106011 | SL | SVO, EPA 8270 | 2,4-DINITROTOLUENE | ND | 1.5 | mg/kg | |
| 93106011 | SL | SVO, EPA 8270 | 2,6-DINITROTOLUENE | ND | 1.5 | mg/kg | |
| 93106011 | SL | SVO, EPA 8270 | 2-CHLORONAPHTHALENE | ND | 1.5 | mg/kg | |
| 93106011 | SL | SVO, EPA 8270 | 2-CHLOROPHENOL | ND | 1.5 | mg/kg | |
| 93106011 | SL | SVO, EPA 8270 | 2-METHYLNAPHTHALENE | ND | 1.5 | mg/kg | |
| 93106011 | SL | SVO, EPA 8270 | 2-METHYLPHENOL | ND | 1.5 | mg/kg | |
| 93106011 | SL | SVO, EPA 8270 | 2-NITROANILINE | ND | 10 | mg/kg | |
| 93106011 | SL | SVO, EPA 8270 | 2-NITROPHENOL | ND | 1.5 | mg/kg | |
| 93106011 | SL | SVO, EPA 8270 | 3,3'-DICHLOROBENZIDINE | ND | 10 | mg/kg | |
| 93106011 | SL | SVO, EPA 8270 | 3-NITROANILINE | ND | 10 | mg/kg | |
| 93106011 | SL | SVO, EPA 8270 | 4,6-DINITRO-2-METHYLPHENOL | ND | 10 | mg/kg | |
| 93106011 | SL | SVO, EPA 8270 | 4-BROMOPHENYL PHENYL ETHER | ND | 1.5 | mg/kg | |
| 93106011 | SL | SVO, EPA 8270 | 4-CHLORO-3-METHYLPHENOL | ND | 1.5 | mg/kg | |
| 93106011 | SL | SVO, EPA 8270 | 4-CHLOROANILINE | ND | 1.5 | mg/kg | |
| 93106011 | SL | SVO, EPA 8270 | 4-CHLOROPHENYL PHENYL ETHER | ND | 1.5 | mg/kg | |
| 93106011 | SL | SVO, EPA 8270 | 4-METHYLPHENOL | ND | 1.5 | mg/kg | |
| 93106011 | SL | SVO, EPA 8270 | 4-NITROANILINE | ND | 10 | mg/kg | |
| 93106011 | SL | SVO, EPA 8270 | 4-NITROPHENOL | ND | 10 | mg/kg | |
| 93106011 | SL | SVO, EPA 8270 | ACENAPHTHENE | ND | 1.5 | mg/kg | |
| 93106011 | SL | SVO, EPA 8270 | ACENAPHTHYLENE | ND | 1.5 | mg/kg | |
| 93106011 | SL | SVO, EPA 8270 | ANILINE | ND | 5 | mg/kg | |
| 93106011 | SL | SVO, EPA 8270 | ANTHRACENE | ND | 1.5 | mg/kg | |
| 93106011 | SL | SVO, EPA 8270 | BENZO(A)ANTHRACENE | ND | 1.5 | mg/kg | |
| 93106011 | SL | SVO, EPA 8270 | BENZO(A)PYRENE | ND | 1.5 | mg/kg | |
| 93106011 | SL | SVO, EPA 8270 | BENZO(B)FLUORANTHENE | ND | 1.5 | mg/kg | |
| 93106011 | SL | SVO, EPA 8270 | BENZO(GHI)PERYLENE | ND | 1.5 | mg/kg | |
| 93106011 | SL | SVO, EPA 8270 | BENZO(K)FLUORANTHENE | ND | 1.5 | mg/kg | |
| 93106011 | SL | SVO, EPA 8270 | BENZOIC ACID | ND | 10 | mg/kg | |
| 93106011 | SL | SVO, EPA 8270 | BENZYL ALCOHOL | ND | 1.5 | mg/kg | |
| 93106011 | SL | SVO, EPA 8270 | BENZYL BUTYL PHTHALATE | ND | 1.5 | mg/kg | |
| 93106011 | SL | SVO, EPA 8270 | BIS(2-CHLOROETHOXY) METHANE | ND | 1.5 | mg/kg | |
| 93106011 | SL | SVO, EPA 8270 | BIS(2-CHLOROETHYL) ETHER | ND | 1.5 | mg/kg | |
| 93106011 | SL | SVO, EPA 8270 | BIS(2-CHLOROISOPROPYL) ETHER | ND | 1.5 | mg/kg | |
| 93106011 | SL | SVO, EPA 8270 | BIS(2-ETHYLHEXYL) PHTHALATE | 2 | 1.5 | mg/kg | |
| 93106011 | SL | SVO, EPA 8270 | CHRYSENE | ND | 1.5 | mg/kg | |
| 93106011 | SL | SVO, EPA 8270 | DI-N-BUTYL PHTHALATE | ND | 1.5 | mg/kg | |
| 93106011 | SL | SVO, EPA 8270 | DI-N-OCTYL PHTHALATE | ND | 1.5 | mg/kg | |
| 93106011 | SL | SVO, EPA 8270 | DIBENZO(A,H)ANTHRACENE | ND | 1.5 | mg/kg | |
| 93106011 | SL | SVO, EPA 8270 | DIBENZOFURAN | ND | 1.5 | mg/kg | |
| 93106011 | SL | SVO, EPA 8270 | DIETHYL PHTHALATE | ND | 1.5 | mg/kg | |
| 93106011 | SL | SVO, EPA 8270 | DIMETHYL PHTHALATE | ND | 1.5 | mg/kg | |
| 93106011 | SL | SVO, EPA 8270 | FLUORANTHENE | ND | 1.5 | mg/kg | |
| 93106011 | SL | SVO, EPA 8270 | FLUORENE | ND | 1.5 | mg/kg | |
| 93106011 | SL | SVO, EPA 8270 | HEXACHLOROBENZENE | ND | 1.5 | mg/kg | |
| 93106011 | SL | SVO, EPA 8270 | HEXACHLOROBUTADIENE | ND | 1.5 | mg/kg | |
| 93106011 | SL | SVO, EPA 8270 | HEXACHLOROCYCLOPENTADIENE | ND | 1.5 | mg/kg | |
| 93106011 | SL | SVO, EPA 8270 | HEXACHLOROETHANE | ND | 1.5 | mg/kg | |
| 93106011 | SL | SVO, EPA 8270 | INDENO(1,2,3-CD)PYRENE | ND | 1.5 | mg/kg | |
| 93106011 | SL | SVO, EPA 8270 | ISOPHORONE | ND | 1.5 | mg/kg | |
| 93106011 | SL | SVO, EPA 8270 | N-NITROSO-DI-N-PROPYLAMINE | ND | 1.5 | mg/kg | |
| 93106011 | SL | SVO, EPA 8270 | N-NITROSODIMETHYLAMINE | ND | 10 | mg/kg | |
| 93106011 | SL | SVO, EPA 8270 | N-NITROSODIPHENYLAMINE | ND | 1.5 | mg/kg | |
| 93106011 | SL | SVO, EPA 8270 | NAPHTHALENE | 5 | 1.5 | mg/kg | |
| 93106011 | SL | SVO, EPA 8270 | NITROBENZENE | ND | 1.5 | mg/kg | |
| 93106011 | SL | SVO, EPA 8270 | PENTACHLOROPHENOL | ND | 10 | mg/kg | |
| 93106011 | SL | SVO, EPA 8270 | PHENANTHRENE | ND | 1.5 | mg/kg | |
| 93106011 | SL | SVO, EPA 8270 | PHENOL | ND | 1.5 | mg/kg | |
| 93106011 | SL | SVO, EPA 8270 | PYRENE | ND | 1.5 | mg/kg | |

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|---|---|---|---|---|---|---|---|
| 93106012 | SL | SVO, EPA 8270 | 1,2,4-TRICHLOROBENZENE | ND | 8 | mg/kg | |
| 93106012 | SL | SVO, EPA 8270 | 1,2-DICHLOROBENZENE | ND | 8 | mg/kg | |
| 93106012 | SL | SVO, EPA 8270 | 1,3-DICHLOROBENZENE | ND | 8 | mg/kg | |
| 93106012 | SL | SVO, EPA 8270 | 1,4-DICHLOROBENZENE | ND | 8 | mg/kg | |
| 93106012 | SL | SVO, EPA 8270 | 2,4,5-TRICHLOROPHENOL | ND | 8 | mg/kg | |
| 93106012 | SL | SVO, EPA 8270 | 2,4,6-TRICHLOROPHENOL | ND | 8 | mg/kg | |
| 93106012 | SL | SVO, EPA 8270 | 2,4-DICHLOROPHENOL | ND | 8 | mg/kg | |
| 93106012 | SL | SVO, EPA 8270 | 2,4-DIMETHYLPHENOL | ND | 8 | mg/kg | |
| 93106012 | SL | SVO, EPA 8270 | 2,4-DINITROPHENOL | ND | 50 | mg/kg | |
| 93106012 | SL | SVO, EPA 8270 | 2,4-DINITROTOLUENE | ND | 8 | mg/kg | |
| 93106012 | SL | SVO, EPA 8270 | 2,6-DINITROTOLUENE | ND | 8 | mg/kg | |
| 93106012 | SL | SVO, EPA 8270 | 2-CHLORONAPHTHALENE | ND | 8 | mg/kg | |
| 93106012 | SL | SVO, EPA 8270 | 2-CHLOROPHENOL | ND | 8 | mg/kg | |
| 93106012 | SL | SVO, EPA 8270 | 2-METHYLNAPHTHALENE | ND | 8 | mg/kg | |
| 93106012 | SL | SVO, EPA 8270 | 2-METHYLPHENOL | ND | 8 | mg/kg | |
| 93106012 | SL | SVO, EPA 8270 | 2-NITROANILINE | ND | 50 | mg/kg | |
| 93106012 | SL | SVO, EPA 8270 | 2-NITROPHENOL | ND | 8 | mg/kg | |
| 93106012 | SL | SVO, EPA 8270 | 3,3'-DICHLOROBENZIDINE | ND | 50 | mg/kg | |
| 93106012 | SL | SVO, EPA 8270 | 3-NITROANILINE | ND | 50 | mg/kg | |
| 93106012 | SL | SVO, EPA 8270 | 4,6-DINITRO-2-METHYLPHENOL | ND | 50 | mg/kg | |
| 93106012 | SL | SVO, EPA 8270 | 4-BROMOPHENYL PHENYL ETHER | ND | 8 | mg/kg | |
| 93106012 | SL | SVO, EPA 8270 | 4-CHLORO-3-METHYLPHENOL | ND | 8 | mg/kg | |
| 93106012 | SL | SVO, EPA 8270 | 4-CHLOROANILINE | ND | 8 | mg/kg | |
| 93106012 | SL | SVO, EPA 8270 | 4-CHLOROPHENYL PHENYL ETHER | ND | 8 | mg/kg | |
| 93106012 | SL | SVO, EPA 8270 | 4-METHYLPHENOL | ND | 8 | mg/kg | |
| 93106012 | SL | SVO, EPA 8270 | 4-NITROANILINE | ND | 50 | mg/kg | |
| 93106012 | SL | SVO, EPA 8270 | 4-NITROPHENOL | ND | 50 | mg/kg | |
| 93106012 | SL | SVO, EPA 8270 | ACENAPHTHENE | ND | 8 | mg/kg | |
| 93106012 | SL | SVO, EPA 8270 | ACENAPHTHYLENE | ND | 8 | mg/kg | |
| 93106012 | SL | SVO, EPA 8270 | ANILINE | ND | 25 | mg/kg | |
| 93106012 | SL | SVO, EPA 8270 | ANTHRACENE | ND | 8 | mg/kg | |
| 93106012 | SL | SVO, EPA 8270 | BENZO(A)ANTHRACENE | ND | 8 | mg/kg | |
| 93106012 | SL | SVO, EPA 8270 | BENZO(A)PYRENE | ND | 8 | mg/kg | |
| 93106012 | SL | SVO, EPA 8270 | BENZO(B)FLUORANTHENE | ND | 8 | mg/kg | |
| 93106012 | SL | SVO, EPA 8270 | BENZO(GHI)PERYLENE | ND | 8 | mg/kg | |
| 93106012 | SL | SVO, EPA 8270 | BENZO(K)FLUORANTHENE | ND | 8 | mg/kg | |
| 93106012 | SL | SVO, EPA 8270 | BENZOIC ACID | ND | 50 | mg/kg | |
| 93106012 | SL | SVO, EPA 8270 | BENZYL ALCOHOL | ND | 8 | mg/kg | |
| 93106012 | SL | SVO, EPA 8270 | BENZYL BUTYL PHTHALATE | ND | 8 | mg/kg | |
| 93106012 | SL | SVO, EPA 8270 | BIS(2-CHLOROETHOXY) METHANE | ND | 8 | mg/kg | |
| 93106012 | SL | SVO, EPA 8270 | BIS(2-CHLOROETHYL) ETHER | ND | 8 | mg/kg | |
| 93106012 | SL | SVO, EPA 8270 | BIS(2-CHLOROISOPROPYL) ETHER | ND | 8 | mg/kg | |
| 93106012 | SL | SVO, EPA 8270 | BIS(2-ETHYLHEXYL) PHTHALATE | ND | 8 | mg/kg | |
| 93106012 | SL | SVO, EPA 8270 | CHRYSENE | ND | 8 | mg/kg | |
| 93106012 | SL | SVO, EPA 8270 | DI-N-BUTYL PHTHALATE | ND | 8 | mg/kg | |
| 93106012 | SL | SVO, EPA 8270 | DI-N-OCTYL PHTHALATE | ND | 8 | mg/kg | |
| 93106012 | SL | SVO, EPA 8270 | DIBENZO(A,H)ANTHRACENE | ND | 8 | mg/kg | |
| 93106012 | SL | SVO, EPA 8270 | DIBENZOFURAN | ND | 8 | mg/kg | |
| 93106012 | SL | SVO, EPA 8270 | DIETHYL PHTHALATE | ND | 8 | mg/kg | |
| 93106012 | SL | SVO, EPA 8270 | DIMETHYL PHTHALATE | ND | 8 | mg/kg | |
| 93106012 | SL | SVO, EPA 8270 | FLUORANTHENE | ND | 8 | mg/kg | |
| 93106012 | SL | SVO, EPA 8270 | FLUORENE | ND | 8 | mg/kg | |
| 93106012 | SL | SVO, EPA 8270 | HEXACHLOROBENZENE | ND | 8 | mg/kg | |
| 93106012 | SL | SVO, EPA 8270 | HEXACHLOROBUTADIENE | ND | 8 | mg/kg | |
| 93106012 | SL | SVO, EPA 8270 | HEXACHLOROCYCLOPENTADIENE | ND | 8 | mg/kg | |
| 93106012 | SL | SVO, EPA 8270 | HEXACHLOROETHANE | ND | 8 | mg/kg | |
| 93106012 | SL | SVO, EPA 8270 | INDENO(1,2,3-CD)PYRENE | ND | 8 | mg/kg | |
| 93106012 | SL | SVO, EPA 8270 | ISOPHORONE | ND | 8 | mg/kg | |
| 93106012 | SL | SVO, EPA 8270 | N-NITROSO-DI-N-PROPYLAMINE | ND | 8 | mg/kg | |
| 93106012 | SL | SVO, EPA 8270 | N-NITROSODIMETHYLAMINE | ND | 50 | mg/kg | |
| 93106012 | SL | SVO, EPA 8270 | N-NITROSODIPHENYLAMINE | ND | 8 | mg/kg | |
| 93106012 | SL | SVO, EPA 8270 | NAPHTHALENE | ND | 8 | mg/kg | |
| 93106012 | SL | SVO, EPA 8270 | NITROBENZENE | ND | 8 | mg/kg | |
| 93106012 | SL | SVO, EPA 8270 | PENTACHLOROPHENOL | ND | 50 | mg/kg | |
| 93106012 | SL | SVO, EPA 8270 | PHENANTHRENE | ND | 8 | mg/kg | |
| 93106012 | SL | SVO, EPA 8270 | PHENOL | ND | 8 | mg/kg | |
| 93106012 | SL | SVO, EPA 8270 | PYRENE | ND | 8 | mg/kg | |
| 93106013 | SL | SVO, EPA 8270 | 1,2,4-TRICHLOROBENZENE | ND | 8 | mg/kg | |
| 93106013 | SL | SVO, EPA 8270 | 1,2-DICHLOROBENZENE | ND | 8 | mg/kg | |
| 93106013 | SL | SVO, EPA 8270 | 1,3-DICHLOROBENZENE | ND | 8 | mg/kg | |
| 93106013 | SL | SVO, EPA 8270 | 1,4-DICHLOROBENZENE | ND | 8 | mg/kg | |
| 93106013 | SL | SVO, EPA 8270 | 2,4,5-TRICHLOROPHENOL | ND | 8 | mg/kg | |
| 93106013 | SL | SVO, EPA 8270 | 2,4,6-TRICHLOROPHENOL | ND | 8 | mg/kg | |
| 93106013 | SL | SVO, EPA 8270 | 2,4-DICHLOROPHENOL | ND | 8 | mg/kg | |

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|---|---|---|---|---|---|---|---|
| 93106013 | SL | SVO, EPA 8270 | 2,4-DIMETHYLPHENOL | ND | 8 | mg/kg | |
| 93106013 | SL | SVO, EPA 8270 | 2,4-DINITROPHENOL | ND | 50 | mg/kg | |
| 93106013 | SL | SVO, EPA 8270 | 2,4-DINITROTOLUENE | ND | 8 | mg/kg | |
| 93106013 | SL | SVO, EPA 8270 | 2,6-DINITROTOLUENE | ND | 8 | mg/kg | |
| 93106013 | SL | SVO, EPA 8270 | 2-CHLORONAPHTHALENE | ND | 8 | mg/kg | |
| 93106013 | SL | SVO, EPA 8270 | 2-CHLOROPHENOL | ND | 8 | mg/kg | |
| 93106013 | SL | SVO, EPA 8270 | 2-METHYLNAPHTHALENE | ND | 8 | mg/kg | |
| 93106013 | SL | SVO, EPA 8270 | 2-METHYLPHENOL | ND | 8 | mg/kg | |
| 93106013 | SL | SVO, EPA 8270 | 2-NITROANILINE | ND | 50 | mg/kg | |
| 93106013 | SL | SVO, EPA 8270 | 2-NITROPHENOL | ND | 8 | mg/kg | |
| 93106013 | SL | SVO, EPA 8270 | 3,3'-DICHLOROBENZIDINE | ND | 50 | mg/kg | |
| 93106013 | SL | SVO, EPA 8270 | 3-NITROANILINE | ND | 50 | mg/kg | |
| 93106013 | SL | SVO, EPA 8270 | 4,6-DINITRO-2-METHYLPHENOL | ND | 50 | mg/kg | |
| 93106013 | SL | SVO, EPA 8270 | 4-BROMOPHENYL PHENYL ETHER | ND | 8 | mg/kg | |
| 93106013 | SL | SVO, EPA 8270 | 4-CHLORO-3-METHYLPHENOL | ND | 8 | mg/kg | |
| 93106013 | SL | SVO, EPA 8270 | 4-CHLOROANILINE | ND | 8 | mg/kg | |
| 93106013 | SL | SVO, EPA 8270 | 4-CHLOROPHENYL PHENYL ETHER | ND | 8 | mg/kg | |
| 93106013 | SL | SVO, EPA 8270 | 4-METHYLPHENOL | ND | 8 | mg/kg | |
| 93106013 | SL | SVO, EPA 8270 | 4-NITROANILINE | ND | 50 | mg/kg | |
| 93106013 | SL | SVO, EPA 8270 | 4-NITROPHENOL | ND | 50 | mg/kg | |
| 93106013 | SL | SVO, EPA 8270 | ACENAPHTHENE | ND | 8 | mg/kg | |
| 93106013 | SL | SVO, EPA 8270 | ACENAPHTHYLENE | ND | 8 | mg/kg | |
| 93106013 | SL | SVO, EPA 8270 | ANILINE | ND | 25 | mg/kg | |
| 93106013 | SL | SVO, EPA 8270 | ANTHRACENE | ND | 8 | mg/kg | |
| 93106013 | SL | SVO, EPA 8270 | BENZO(A)ANTHRACENE | ND | 8 | mg/kg | |
| 93106013 | SL | SVO, EPA 8270 | BENZO(A)PYRENE | ND | 8 | mg/kg | |
| 93106013 | SL | SVO, EPA 8270 | BENZO(B)FLUORANTHENE | ND | 8 | mg/kg | |
| 93106013 | SL | SVO, EPA 8270 | BENZO(GHI)PERYLENE | ND | 8 | mg/kg | |
| 93106013 | SL | SVO, EPA 8270 | BENZO(K)FLUORANTHENE | ND | 8 | mg/kg | |
| 93106013 | SL | SVO, EPA 8270 | BENZOIC ACID | ND | 50 | mg/kg | |
| 93106013 | SL | SVO, EPA 8270 | BENZYL ALCOHOL | ND | 8 | mg/kg | |
| 93106013 | SL | SVO, EPA 8270 | BENZYL BUTYL PHTHALATE | ND | 8 | mg/kg | |
| 93106013 | SL | SVO, EPA 8270 | BIS(2-CHLOROETHOXY) METHANE | ND | 8 | mg/kg | |
| 93106013 | SL | SVO, EPA 8270 | BIS(2-CHLOROETHYL) ETHER | ND | 8 | mg/kg | |
| 93106013 | SL | SVO, EPA 8270 | BIS(2-CHLOROISOPROPYL) ETHER | ND | 8 | mg/kg | |
| 93106013 | SL | SVO, EPA 8270 | BIS(2-ETHYLHEXYL) PHTHALATE | ND | 8 | mg/kg | |
| 93106013 | SL | SVO, EPA 8270 | CHRYSENE | ND | 8 | mg/kg | |
| 93106013 | SL | SVO, EPA 8270 | DI-N-BUTYL PHTHALATE | ND | 8 | mg/kg | |
| 93106013 | SL | SVO, EPA 8270 | DI-N-OCTYL PHTHALATE | ND | 8 | mg/kg | |
| 93106013 | SL | SVO, EPA 8270 | DIBENZO(A,H)ANTHRACENE | ND | 8 | mg/kg | |
| 93106013 | SL | SVO, EPA 8270 | DIBENZOFURAN | ND | 8 | mg/kg | |
| 93106013 | SL | SVO, EPA 8270 | DIETHYL PHTHALATE | ND | 8 | mg/kg | |
| 93106013 | SL | SVO, EPA 8270 | DIMETHYL PHTHALATE | ND | 8 | mg/kg | |
| 93106013 | SL | SVO, EPA 8270 | FLUORANTHENE | ND | 8 | mg/kg | |
| 93106013 | SL | SVO, EPA 8270 | FLUORENE | ND | 8 | mg/kg | |
| 93106013 | SL | SVO, EPA 8270 | HEXACHLOROBENZENE | ND | 8 | mg/kg | |
| 93106013 | SL | SVO, EPA 8270 | HEXACHLOROBUTADIENE | ND | 8 | mg/kg | |
| 93106013 | SL | SVO, EPA 8270 | HEXACHLOROCYCLOPENTADIENE | ND | 8 | mg/kg | |
| 93106013 | SL | SVO, EPA 8270 | HEXACHLOROETHANE | ND | 8 | mg/kg | |
| 93106013 | SL | SVO, EPA 8270 | INDENO(1,2,3-CD)PYRENE | ND | 8 | mg/kg | |
| 93106013 | SL | SVO, EPA 8270 | ISOPHORONE | ND | 8 | mg/kg | |
| 93106013 | SL | SVO, EPA 8270 | N-NITROSO-DI-N-PROPYLAMINE | ND | 8 | mg/kg | |
| 93106013 | SL | SVO, EPA 8270 | N-NITROSODIMETHYLAMINE | ND | 50 | mg/kg | |
| 93106013 | SL | SVO, EPA 8270 | N-NITROSODIPHENYLAMINE | ND | 8 | mg/kg | |
| 93106013 | SL | SVO, EPA 8270 | NAPHTHALENE | ND | 8 | mg/kg | |
| 93106013 | SL | SVO, EPA 8270 | NITROBENZENE | ND | 8 | mg/kg | |
| 93106013 | SL | SVO, EPA 8270 | PENTACHLOROPHENOL | ND | 50 | mg/kg | |
| 93106013 | SL | SVO, EPA 8270 | PHENANTHRENE | ND | 8 | mg/kg | |
| 93106013 | SL | SVO, EPA 8270 | PHENOL | ND | 8 | mg/kg | |
| 93106013 | SL | SVO, EPA 8270 | PYRENE | ND | 8 | mg/kg | |
| 93106020 | SR | SVO, EPA 8270 | 1,2,4-TRICHLOROBENZENE | ND | 10 | ug/l | |
| 93106020 | SR | SVO, EPA 8270 | 1,2-DICHLOROBENZENE | ND | 10 | ug/l | |
| 93106020 | SR | SVO, EPA 8270 | 1,3-DICHLOROBENZENE | ND | 10 | ug/l | |
| 93106020 | SR | SVO, EPA 8270 | 1,4-DICHLOROBENZENE | ND | 10 | ug/l | |
| 93106020 | SR | SVO, EPA 8270 | 2,4,5-TRICHLOROPHENOL | ND | 10 | ug/l | |
| 93106020 | SR | SVO, EPA 8270 | 2,4,6-TRICHLOROPHENOL | ND | 10 | ug/l | |
| 93106020 | SR | SVO, EPA 8270 | 2,4-DICHLOROPHENOL | ND | 10 | ug/l | |
| 93106020 | SR | SVO, EPA 8270 | 2,4-DIMETHYLPHENOL | ND | 10 | ug/l | |
| 93106020 | SR | SVO, EPA 8270 | 2,4-DINITROPHENOL | ND | 25 | ug/l | |
| 93106020 | SR | SVO, EPA 8270 | 2,4-DINITROTOLUENE | ND | 10 | ug/l | |
| 93106020 | SR | SVO, EPA 8270 | 2,6-DINITROTOLUENE | ND | 10 | ug/l | |
| 93106020 | SR | SVO, EPA 8270 | 2-CHLORONAPHTHALENE | ND | 10 | ug/l | |
| 93106020 | SR | SVO, EPA 8270 | 2-CHLOROPHENOL | ND | 10 | ug/l | |
| 93106020 | SR | SVO, EPA 8270 | 2-METHYLNAPHTHALENE | ND | 10 | ug/l | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 93106020 | SR | SVO, EPA 8270 | 2-METHYLPHENOL | ND | 10 | ug/l | |
| 93106020 | SR | SVO, EPA 8270 | 2-NITROANILINE | ND | 25 | ug/l | |
| 93106020 | SR | SVO, EPA 8270 | 2-NITROPHENOL | ND | 10 | ug/l | |
| 93106020 | SR | SVO, EPA 8270 | 3,3'-DICHLOROBENZIDINE | ND | 25 | ug/l | |
| 93106020 | SR | SVO, EPA 8270 | 3-NITROANILINE | ND | 25 | ug/l | |
| 93106020 | SR | SVO, EPA 8270 | 4,6-DINITRO-2-METHYLPHENOL | ND | 25 | ug/l | |
| 93106020 | SR | SVO, EPA 8270 | 4-BROMOPHENYL PHENYL ETHER | ND | 10 | ug/l | |
| 93106020 | SR | SVO, EPA 8270 | 4-CHLORO-3-METHYLPHENOL | ND | 10 | ug/l | |
| 93106020 | SR | SVO, EPA 8270 | 4-CHLOROANILINE | ND | 10 | ug/l | |
| 93106020 | SR | SVO, EPA 8270 | 4-CHLOROPHENYL PHENYL ETHER | ND | 10 | ug/l | |
| 93106020 | SR | SVO, EPA 8270 | 4-METHYLPHENOL | ND | 10 | ug/l | |
| 93106020 | SR | SVO, EPA 8270 | 4-NITROANILINE | ND | 25 | ug/l | |
| 93106020 | SR | SVO, EPA 8270 | 4-NITROPHENOL | ND | 25 | ug/l | |
| 93106020 | SR | SVO, EPA 8270 | ACENAPHTHENE | ND | 10 | ug/l | |
| 93106020 | SR | SVO, EPA 8270 | ACENAPHTHYLENE | ND | 10 | ug/l | |
| 93106020 | SR | SVO, EPA 8270 | ANILINE | ND | 25 | ug/l | |
| 93106020 | SR | SVO, EPA 8270 | ANTHRACENE | ND | 10 | ug/l | |
| 93106020 | SR | SVO, EPA 8270 | BENZO(A)ANTHRACENE | ND | 10 | ug/l | |
| 93106020 | SR | SVO, EPA 8270 | BENZO(A)PYRENE | ND | 10 | ug/l | |
| 93106020 | SR | SVO, EPA 8270 | BENZO(B)FLUORANTHENE | ND | 10 | ug/l | |
| 93106020 | SR | SVO, EPA 8270 | BENZO(GHI)PERYLENE | ND | 10 | ug/l | |
| 93106020 | SR | SVO, EPA 8270 | BENZO(K)FLUORANTHENE | ND | 10 | ug/l | |
| 93106020 | SR | SVO, EPA 8270 | BENZOIC ACID | ND | 25 | ug/l | |
| 93106020 | SR | SVO, EPA 8270 | BENZYL ALCOHOL | ND | 10 | ug/l | |
| 93106020 | SR | SVO, EPA 8270 | BENZYL BUTYL PHTHALATE | ND | 10 | ug/l | |
| 93106020 | SR | SVO, EPA 8270 | BIS(2-CHLOROETHOXY) METHANE | ND | 10 | ug/l | |
| 93106020 | SR | SVO, EPA 8270 | BIS(2-CHLOROETHYL) ETHER | ND | 10 | ug/l | |
| 93106020 | SR | SVO, EPA 8270 | BIS(2-CHLOROISOPROPYL) ETHER | ND | 10 | ug/l | |
| 93106020 | SR | SVO, EPA 8270 | BIS(2-ETHYLHEXYL) PHTHALATE | ND | 10 | ug/l | |
| 93106020 | SR | SVO, EPA 8270 | CHRYSENE | ND | 10 | ug/l | |
| 93106020 | SR | SVO, EPA 8270 | DI-N-BUTYL PHTHALATE | ND | 10 | ug/l | |
| 93106020 | SR | SVO, EPA 8270 | DI-N-OCTYL PHTHALATE | ND | 10 | ug/l | |
| 93106020 | SR | SVO, EPA 8270 | DIBENZO(A,H)ANTHRACENE | ND | 10 | ug/l | |
| 93106020 | SR | SVO, EPA 8270 | DIBENZOFURAN | ND | 10 | ug/l | |
| 93106020 | SR | SVO, EPA 8270 | DIETHYL PHTHALATE | ND | 10 | ug/l | |
| 93106020 | SR | SVO, EPA 8270 | DIMETHYL PHTHALATE | ND | 10 | ug/l | |
| 93106020 | SR | SVO, EPA 8270 | FLUORANTHENE | ND | 10 | ug/l | |
| 93106020 | SR | SVO, EPA 8270 | FLUORENE | ND | 10 | ug/l | |
| 93106020 | SR | SVO, EPA 8270 | HEXACHLOROBENZENE | ND | 10 | ug/l | |
| 93106020 | SR | SVO, EPA 8270 | HEXACHLOROBUTADIENE | ND | 10 | ug/l | |
| 93106020 | SR | SVO, EPA 8270 | HEXACHLOROCYCLOPENTADIENE | ND | 10 | ug/l | |
| 93106020 | SR | SVO, EPA 8270 | HEXACHLOROETHANE | ND | 10 | ug/l | |
| 93106020 | SR | SVO, EPA 8270 | INDENO(1,2,3-CD)PYRENE | ND | 10 | ug/l | |
| 93106020 | SR | SVO, EPA 8270 | ISOPHORONE | ND | 10 | ug/l | |
| 93106020 | SR | SVO, EPA 8270 | N-NITROSO-DI-N-PROPYLAMINE | ND | 10 | ug/l | |
| 93106020 | SR | SVO, EPA 8270 | N-NITROSODIMETHYLAMINE | ND | 25 | ug/l | |
| 93106020 | SR | SVO, EPA 8270 | N-NITROSODIPHENYLAMINE | ND | 10 | ug/l | |
| 93106020 | SR | SVO, EPA 8270 | NAPHTHALENE | ND | 10 | ug/l | |
| 93106020 | SR | SVO, EPA 8270 | NITROBENZENE | ND | 10 | ug/l | |
| 93106020 | SR | SVO, EPA 8270 | PENTACHLOROPHENOL | ND | 25 | ug/l | |
| 93106020 | SR | SVO, EPA 8270 | PHENANTHRENE | ND | 10 | ug/l | |
| 93106020 | SR | SVO, EPA 8270 | PHENOL | ND | 10 | ug/l | |
| 93106020 | SR | SVO, EPA 8270 | PYRENE | ND | 10 | ug/l | |
| 93106038 | SR | SVO, EPA 8270 | 1,2,4-TRICHLOROBENZENE | ND | 1.5 | mg/kg | |
| 93106038 | SR | SVO, EPA 8270 | 1,2-DICHLOROBENZENE | ND | 1.5 | mg/kg | |
| 93106038 | SR | SVO, EPA 8270 | 1,3-DICHLOROBENZENE | ND | 1.5 | mg/kg | |
| 93106038 | SR | SVO, EPA 8270 | 1,4-DICHLOROBENZENE | ND | 1.5 | mg/kg | |
| 93106038 | SR | SVO, EPA 8270 | 2,4,5-TRICHLOROPHENOL | ND | 1.5 | mg/kg | |
| 93106038 | SR | SVO, EPA 8270 | 2,4,6-TRICHLOROPHENOL | ND | 1.5 | mg/kg | |
| 93106038 | SR | SVO, EPA 8270 | 2,4-DICHLOROPHENOL | ND | 1.5 | mg/kg | |
| 93106038 | SR | SVO, EPA 8270 | 2,4-DIMETHYLPHENOL | ND | 1.5 | mg/kg | |
| 93106038 | SR | SVO, EPA 8270 | 2,4-DINITROPHENOL | ND | 10 | mg/kg | |
| 93106038 | SR | SVO, EPA 8270 | 2,4-DINITROTOLUENE | ND | 1.5 | mg/kg | |
| 93106038 | SR | SVO, EPA 8270 | 2,6-DINITROTOLUENE | ND | 1.5 | mg/kg | |
| 93106038 | SR | SVO, EPA 8270 | 2-CHLORONAPHTHALENE | ND | 1.5 | mg/kg | |
| 93106038 | SR | SVO, EPA 8270 | 2-CHLOROPHENOL | ND | 1.5 | mg/kg | |
| 93106038 | SR | SVO, EPA 8270 | 2-METHYLNAPHTHALENE | ND | 1.5 | mg/kg | |
| 93106038 | SR | SVO, EPA 8270 | 2-METHYLPHENOL | ND | 1.5 | mg/kg | |
| 93106038 | SR | SVO, EPA 8270 | 2-NITROANILINE | ND | 10 | mg/kg | |
| 93106038 | SR | SVO, EPA 8270 | 2-NITROPHENOL | ND | 1.5 | mg/kg | |
| 93106038 | SR | SVO, EPA 8270 | 3,3'-DICHLOROBENZIDINE | ND | 10 | mg/kg | |
| 93106038 | SR | SVO, EPA 8270 | 3-NITROANILINE | ND | 10 | mg/kg | |
| 93106038 | SR | SVO, EPA 8270 | 4,6-DINITRO-2-METHYLPHENOL | ND | 10 | mg/kg | |
| 93106038 | SR | SVO, EPA 8270 | 4-BROMOPHENYL PHENYL ETHER | ND | 1.5 | mg/kg | |

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|---|---|---|---|---|---|---|---|
| 93106038 | SR | SVO, EPA 8270 | 4-CHLORO-3-METHYLPHENOL | ND | 1.5 | mg/kg | |
| 93106038 | SR | SVO, EPA 8270 | 4-CHLOROANILINE | ND | 1.5 | mg/kg | |
| 93106038 | SR | SVO, EPA 8270 | 4-CHLOROPHENYL PHENYL ETHER | ND | 1.5 | mg/kg | |
| 93106038 | SR | SVO, EPA 8270 | 4-METHYLPHENOL | ND | 1.5 | mg/kg | |
| 93106038 | SR | SVO, EPA 8270 | 4-NITROANILINE | ND | 10 | mg/kg | |
| 93106038 | SR | SVO, EPA 8270 | 4-NITROPHENOL | ND | 10 | mg/kg | |
| 93106038 | SR | SVO, EPA 8270 | ACENAPHTHENE | ND | 1.5 | mg/kg | |
| 93106038 | SR | SVO, EPA 8270 | ACENAPHTHYLENE | ND | 1.5 | mg/kg | |
| 93106038 | SR | SVO, EPA 8270 | ANILINE | ND | 5 | mg/kg | |
| 93106038 | SR | SVO, EPA 8270 | ANTHRACENE | ND | 1.5 | mg/kg | |
| 93106038 | SR | SVO, EPA 8270 | BENZO(A)ANTHRACENE | ND | 1.5 | mg/kg | |
| 93106038 | SR | SVO, EPA 8270 | BENZO(A)PYRENE | ND | 1.5 | mg/kg | |
| 93106038 | SR | SVO, EPA 8270 | BENZO(B)FLUORANTHENE | ND | 1.5 | mg/kg | |
| 93106038 | SR | SVO, EPA 8270 | BENZO(GHI)PERYLENE | ND | 1.5 | mg/kg | |
| 93106038 | SR | SVO, EPA 8270 | BENZO(K)FLUORANTHENE | ND | 1.5 | mg/kg | |
| 93106038 | SR | SVO, EPA 8270 | BENZOIC ACID | ND | 10 | mg/kg | |
| 93106038 | SR | SVO, EPA 8270 | BENZYL ALCOHOL | ND | 1.5 | mg/kg | |
| 93106038 | SR | SVO, EPA 8270 | BENZYL BUTYL PHTHALATE | ND | 1.5 | mg/kg | |
| 93106038 | SR | SVO, EPA 8270 | BIS(2-CHLOROETHOXY) METHANE | ND | 1.5 | mg/kg | |
| 93106038 | SR | SVO, EPA 8270 | BIS(2-CHLOROETHYL) ETHER | ND | 1.5 | mg/kg | |
| 93106038 | SR | SVO, EPA 8270 | BIS(2-CHLOROISOPROPYL) ETHER | ND | 1.5 | mg/kg | |
| 93106038 | SR | SVO, EPA 8270 | BIS(2-ETHYLHEXYL) PHTHALATE | ND | 1.5 | mg/kg | |
| 93106038 | SR | SVO, EPA 8270 | CHRYSENE | ND | 1.5 | mg/kg | |
| 93106038 | SR | SVO, EPA 8270 | DI-N-BUTYL PHTHALATE | ND | 1.5 | mg/kg | |
| 93106038 | SR | SVO, EPA 8270 | DI-N-OCTYL PHTHALATE | ND | 1.5 | mg/kg | |
| 93106038 | SR | SVO, EPA 8270 | DIBENZO(A,H)ANTHRACENE | ND | 1.5 | mg/kg | |
| 93106038 | SR | SVO, EPA 8270 | DIBENZOFURAN | ND | 1.5 | mg/kg | |
| 93106038 | SR | SVO, EPA 8270 | DIETHYL PHTHALATE | ND | 1.5 | mg/kg | |
| 93106038 | SR | SVO, EPA 8270 | DIMETHYL PHTHALATE | ND | 1.5 | mg/kg | |
| 93106038 | SR | SVO, EPA 8270 | FLUORANTHENE | ND | 1.5 | mg/kg | |
| 93106038 | SR | SVO, EPA 8270 | FLUORENE | ND | 1.5 | mg/kg | |
| 93106038 | SR | SVO, EPA 8270 | HEXACHLOROBENZENE | ND | 1.5 | mg/kg | |
| 93106038 | SR | SVO, EPA 8270 | HEXACHLOROBUTADIENE | ND | 1.5 | mg/kg | |
| 93106038 | SR | SVO, EPA 8270 | HEXACHLOROCYCLOPENTADIENE | ND | 1.5 | mg/kg | |
| 93106038 | SR | SVO, EPA 8270 | HEXACHLOROETHANE | ND | 1.5 | mg/kg | |
| 93106038 | SR | SVO, EPA 8270 | INDENO(1,2,3-CD)PYRENE | ND | 1.5 | mg/kg | |
| 93106038 | SR | SVO, EPA 8270 | ISOPHORONE | ND | 1.5 | mg/kg | |
| 93106038 | SR | SVO, EPA 8270 | N-NITROSO-DI-N-PROPYLAMINE | ND | 1.5 | mg/kg | |
| 93106038 | SR | SVO, EPA 8270 | N-NITROSODIMETHYLAMINE | ND | 10 | mg/kg | |
| 93106038 | SR | SVO, EPA 8270 | N-NITROSODIPHENYLAMINE | ND | 1.5 | mg/kg | |
| 93106038 | SR | SVO, EPA 8270 | NAPHTHALENE | ND | 1.5 | mg/kg | |
| 93106038 | SR | SVO, EPA 8270 | NITROBENZENE | ND | 1.5 | mg/kg | |
| 93106038 | SR | SVO, EPA 8270 | PENTACHLOROPHENOL | ND | 10 | mg/kg | |
| 93106038 | SR | SVO, EPA 8270 | PHENANTHRENE | ND | 1.5 | mg/kg | |
| 93106038 | SR | SVO, EPA 8270 | PHENOL | ND | 1.5 | mg/kg | |
| 93106038 | SR | SVO, EPA 8270 | PYRENE | ND | 1.5 | mg/kg | |
| 93106070 | SL | SVO, EPA 8270 | 1,2,4-TRICHLOROBENZENE | ND | 1.5 | mg/kg | |
| 93106070 | SL | SVO, EPA 8270 | 1,2-DICHLOROBENZENE | ND | 1.5 | mg/kg | |
| 93106070 | SL | SVO, EPA 8270 | 1,3-DICHLOROBENZENE | ND | 1.5 | mg/kg | |
| 93106070 | SL | SVO, EPA 8270 | 1,4-DICHLOROBENZENE | ND | 1.5 | mg/kg | |
| 93106070 | SL | SVO, EPA 8270 | 2,4,5-TRICHLOROPHENOL | ND | 1.5 | mg/kg | |
| 93106070 | SL | SVO, EPA 8270 | 2,4,6-TRICHLOROPHENOL | ND | 1.5 | mg/kg | |
| 93106070 | SL | SVO, EPA 8270 | 2,4-DICHLOROPHENOL | ND | 1.5 | mg/kg | |
| 93106070 | SL | SVO, EPA 8270 | 2,4-DIMETHYLPHENOL | ND | 1.5 | mg/kg | |
| 93106070 | SL | SVO, EPA 8270 | 2,4-DINITROPHENOL | ND | 10 | mg/kg | |
| 93106070 | SL | SVO, EPA 8270 | 2,4-DINITROTOLUENE | ND | 1.5 | mg/kg | |
| 93106070 | SL | SVO, EPA 8270 | 2,6-DINITROTOLUENE | ND | 1.5 | mg/kg | |
| 93106070 | SL | SVO, EPA 8270 | 2-CHLORONAPHTHALENE | ND | 1.5 | mg/kg | |
| 93106070 | SL | SVO, EPA 8270 | 2-CHLOROPHENOL | ND | 1.5 | mg/kg | |
| 93106070 | SL | SVO, EPA 8270 | 2-METHYLNAPHTHALENE | ND | 1.5 | mg/kg | |
| 93106070 | SL | SVO, EPA 8270 | 2-METHYLPHENOL | ND | 1.5 | mg/kg | |
| 93106070 | SL | SVO, EPA 8270 | 2-NITROANILINE | ND | 10 | mg/kg | |
| 93106070 | SL | SVO, EPA 8270 | 2-NITROPHENOL | ND | 1.5 | mg/kg | |
| 93106070 | SL | SVO, EPA 8270 | 3,3'-DICHLOROBENZIDINE | ND | 10 | mg/kg | |
| 93106070 | SL | SVO, EPA 8270 | 3-NITROANILINE | ND | 10 | mg/kg | |
| 93106070 | SL | SVO, EPA 8270 | 4,6-DINITRO-2-METHYLPHENOL | ND | 10 | mg/kg | |
| 93106070 | SL | SVO, EPA 8270 | 4-BROMOPHENYL PHENYL ETHER | ND | 1.5 | mg/kg | |
| 93106070 | SL | SVO, EPA 8270 | 4-CHLORO-3-METHYLPHENOL | ND | 1.5 | mg/kg | |
| 93106070 | SL | SVO, EPA 8270 | 4-CHLOROANILINE | ND | 1.5 | mg/kg | |
| 93106070 | SL | SVO, EPA 8270 | 4-CHLOROPHENYL PHENYL ETHER | ND | 1.5 | mg/kg | |
| 93106070 | SL | SVO, EPA 8270 | 4-METHYLPHENOL | ND | 1.5 | mg/kg | |
| 93106070 | SL | SVO, EPA 8270 | 4-NITROANILINE | ND | 10 | mg/kg | |
| 93106070 | SL | SVO, EPA 8270 | 4-NITROPHENOL | ND | 10 | mg/kg | |
| 93106070 | SL | SVO, EPA 8270 | ACENAPHTHENE | ND | 1.5 | mg/kg | |

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|---|---|---|---|---|---|---|---|
| 93106070 | SL | SVO, EPA 8270 | ACENAPHTHYLENE | ND | 1.5 | mg/kg | |
| 93106070 | SL | SVO, EPA 8270 | ANILINE | ND | 5 | mg/kg | |
| 93106070 | SL | SVO, EPA 8270 | ANTHRACENE | ND | 1.5 | mg/kg | |
| 93106070 | SL | SVO, EPA 8270 | BENZO(A)ANTHRACENE | ND | 1.5 | mg/kg | |
| 93106070 | SL | SVO, EPA 8270 | BENZO(A)PYRENE | ND | 1.5 | mg/kg | |
| 93106070 | SL | SVO, EPA 8270 | BENZO(B)FLUORANTHENE | ND | 1.5 | mg/kg | |
| 93106070 | SL | SVO, EPA 8270 | BENZO(GHI)PERYLENE | ND | 1.5 | mg/kg | |
| 93106070 | SL | SVO, EPA 8270 | BENZO(K)FLUORANTHENE | ND | 1.5 | mg/kg | |
| 93106070 | SL | SVO, EPA 8270 | BENZOIC ACID | ND | 10 | mg/kg | |
| 93106070 | SL | SVO, EPA 8270 | BENZYL ALCOHOL | ND | 1.5 | mg/kg | |
| 93106070 | SL | SVO, EPA 8270 | BENZYL BUTYL PHTHALATE | ND | 1.5 | mg/kg | |
| 93106070 | SL | SVO, EPA 8270 | BIS(2-CHLOROETHOXY) METHANE | ND | 1.5 | mg/kg | |
| 93106070 | SL | SVO, EPA 8270 | BIS(2-CHLOROETHYL) ETHER | ND | 1.5 | mg/kg | |
| 93106070 | SL | SVO, EPA 8270 | BIS(2-CHLOROISOPROPYL) ETHER | ND | 1.5 | mg/kg | |
| 93106070 | SL | SVO, EPA 8270 | BIS(2-ETHYLHEXYL) PHTHALATE | ND | 1.5 | mg/kg | |
| 93106070 | SL | SVO, EPA 8270 | CHRYSENE | ND | 1.5 | mg/kg | |
| 93106070 | SL | SVO, EPA 8270 | DI-N-BUTYL PHTHALATE | ND | 1.5 | mg/kg | |
| 93106070 | SL | SVO, EPA 8270 | DI-N-OCTYL PHTHALATE | ND | 1.5 | mg/kg | |
| 93106070 | SL | SVO, EPA 8270 | DIBENZO(A,H)ANTHRACENE | ND | 1.5 | mg/kg | |
| 93106070 | SL | SVO, EPA 8270 | DIBENZOFURAN | ND | 1.5 | mg/kg | |
| 93106070 | SL | SVO, EPA 8270 | DIETHYL PHTHALATE | ND | 1.5 | mg/kg | |
| 93106070 | SL | SVO, EPA 8270 | DIMETHYL PHTHALATE | ND | 1.5 | mg/kg | |
| 93106070 | SL | SVO, EPA 8270 | FLUORANTHENE | ND | 1.5 | mg/kg | |
| 93106070 | SL | SVO, EPA 8270 | FLUORENE | ND | 1.5 | mg/kg | |
| 93106070 | SL | SVO, EPA 8270 | HEXACHLOROBENZENE | ND | 1.5 | mg/kg | |
| 93106070 | SL | SVO, EPA 8270 | HEXACHLOROBUTADIENE | ND | 1.5 | mg/kg | |
| 93106070 | SL | SVO, EPA 8270 | HEXACHLOROCYCLOPENTADIENE | ND | 1.5 | mg/kg | |
| 93106070 | SL | SVO, EPA 8270 | HEXACHLOROETHANE | ND | 1.5 | mg/kg | |
| 93106070 | SL | SVO, EPA 8270 | INDENO(1,2,3-CD)PYRENE | ND | 1.5 | mg/kg | |
| 93106070 | SL | SVO, EPA 8270 | ISOPHORONE | ND | 1.5 | mg/kg | |
| 93106070 | SL | SVO, EPA 8270 | N-NITROSO-DI-N-PROPYLAMINE | ND | 1.5 | mg/kg | |
| 93106070 | SL | SVO, EPA 8270 | N-NITROSODIMETHYLAMINE | ND | 10 | mg/kg | |
| 93106070 | SL | SVO, EPA 8270 | N-NITROSODIPHENYLAMINE | ND | 1.5 | mg/kg | |
| 93106070 | SL | SVO, EPA 8270 | NAPHTHALENE | ND | 1.5 | mg/kg | |
| 93106070 | SL | SVO, EPA 8270 | NITROBENZENE | ND | 1.5 | mg/kg | |
| 93106070 | SL | SVO, EPA 8270 | PENTACHLOROPHENOL | ND | 10 | mg/kg | |
| 93106070 | SL | SVO, EPA 8270 | PHENANTHRENE | ND | 1.5 | mg/kg | |
| 93106070 | SL | SVO, EPA 8270 | PHENOL | ND | 1.5 | mg/kg | |
| 93106070 | SL | SVO, EPA 8270 | PYRENE | ND | 1.5 | mg/kg | |
| 93106071 | SL | SVO, EPA 8270 | 1,2,4-TRICHLOROBENZENE | ND | 0.3 | mg/kg | |
| 93106071 | SL | SVO, EPA 8270 | 1,2-DICHLOROBENZENE | ND | 0.3 | mg/kg | |
| 93106071 | SL | SVO, EPA 8270 | 1,3-DICHLOROBENZENE | ND | 0.3 | mg/kg | |
| 93106071 | SL | SVO, EPA 8270 | 1,4-DICHLOROBENZENE | ND | 0.3 | mg/kg | |
| 93106071 | SL | SVO, EPA 8270 | 2,4,5-TRICHLOROPHENOL | ND | 0.3 | mg/kg | |
| 93106071 | SL | SVO, EPA 8270 | 2,4,6-TRICHLOROPHENOL | ND | 0.3 | mg/kg | |
| 93106071 | SL | SVO, EPA 8270 | 2,4-DICHLOROPHENOL | ND | 0.3 | mg/kg | |
| 93106071 | SL | SVO, EPA 8270 | 2,4-DIMETHYLPHENOL | ND | 0.3 | mg/kg | |
| 93106071 | SL | SVO, EPA 8270 | 2,4-DINITROPHENOL | ND | 2 | mg/kg | |
| 93106071 | SL | SVO, EPA 8270 | 2,4-DINITROTOLUENE | ND | 0.3 | mg/kg | |
| 93106071 | SL | SVO, EPA 8270 | 2,6-DINITROTOLUENE | ND | 0.3 | mg/kg | |
| 93106071 | SL | SVO, EPA 8270 | 2-CHLORONAPHTHALENE | ND | 0.3 | mg/kg | |
| 93106071 | SL | SVO, EPA 8270 | 2-CHLOROPHENOL | ND | 0.3 | mg/kg | |
| 93106071 | SL | SVO, EPA 8270 | 2-METHYLNAPHTHALENE | ND | 0.3 | mg/kg | |
| 93106071 | SL | SVO, EPA 8270 | 2-METHYLPHENOL | ND | 0.3 | mg/kg | |
| 93106071 | SL | SVO, EPA 8270 | 2-NITROANILINE | ND | 2 | mg/kg | |
| 93106071 | SL | SVO, EPA 8270 | 2-NITROPHENOL | ND | 0.3 | mg/kg | |
| 93106071 | SL | SVO, EPA 8270 | 3,3'-DICHLOROBENZIDINE | ND | 2 | mg/kg | |
| 93106071 | SL | SVO, EPA 8270 | 3-NITROANILINE | ND | 2 | mg/kg | |
| 93106071 | SL | SVO, EPA 8270 | 4,6-DINITRO-2-METHYLPHENOL | ND | 2 | mg/kg | |
| 93106071 | SL | SVO, EPA 8270 | 4-BROMOPHENYL PHENYL ETHER | ND | 0.3 | mg/kg | |
| 93106071 | SL | SVO, EPA 8270 | 4-CHLORO-3-METHYLPHENOL | ND | 0.3 | mg/kg | |
| 93106071 | SL | SVO, EPA 8270 | 4-CHLOROANILINE | ND | 0.3 | mg/kg | |
| 93106071 | SL | SVO, EPA 8270 | 4-CHLOROPHENYL PHENYL ETHER | ND | 0.3 | mg/kg | |
| 93106071 | SL | SVO, EPA 8270 | 4-METHYLPHENOL | ND | 0.3 | mg/kg | |
| 93106071 | SL | SVO, EPA 8270 | 4-NITROANILINE | ND | 2 | mg/kg | |
| 93106071 | SL | SVO, EPA 8270 | 4-NITROPHENOL | ND | 2 | mg/kg | |
| 93106071 | SL | SVO, EPA 8270 | ACENAPHTHENE | ND | 0.3 | mg/kg | |
| 93106071 | SL | SVO, EPA 8270 | ACENAPHTHYLENE | ND | 0.3 | mg/kg | |
| 93106071 | SL | SVO, EPA 8270 | ANILINE | ND | 1 | mg/kg | |
| 93106071 | SL | SVO, EPA 8270 | ANTHRACENE | ND | 0.3 | mg/kg | |
| 93106071 | SL | SVO, EPA 8270 | BENZO(A)ANTHRACENE | ND | 0.3 | mg/kg | |
| 93106071 | SL | SVO, EPA 8270 | BENZO(A)PYRENE | ND | 0.3 | mg/kg | |
| 93106071 | SL | SVO, EPA 8270 | BENZO(B)FLUORANTHENE | ND | 0.3 | mg/kg | |
| 93106071 | SL | SVO, EPA 8270 | BENZO(GHI)PERYLENE | ND | 0.3 | mg/kg | |

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|---|---|---|---|---|---|---|---|
| 93106071 | SL | SVO, EPA 8270 | BENZO(K)FLUORANTHENE | ND | 0.3 | mg/kg | |
| 93106071 | SL | SVO, EPA 8270 | BENZOIC ACID | ND | 2 | mg/kg | |
| 93106071 | SL | SVO, EPA 8270 | BENZYL ALCOHOL | ND | 0.3 | mg/kg | |
| 93106071 | SL | SVO, EPA 8270 | BENZYL BUTYL PHTHALATE | ND | 0.3 | mg/kg | |
| 93106071 | SL | SVO, EPA 8270 | BIS(2-CHLOROETHOXY) METHANE | ND | 0.3 | mg/kg | |
| 93106071 | SL | SVO, EPA 8270 | BIS(2-CHLOROETHYL) ETHER | ND | 0.3 | mg/kg | |
| 93106071 | SL | SVO, EPA 8270 | BIS(2-CHLOROISOPROPYL) ETHER | ND | 0.3 | mg/kg | |
| 93106071 | SL | SVO, EPA 8270 | BIS(2-ETHYLHEXYL) PHTHALATE | ND | 0.3 | mg/kg | |
| 93106071 | SL | SVO, EPA 8270 | CHRYSENE | ND | 0.3 | mg/kg | |
| 93106071 | SL | SVO, EPA 8270 | DI-N-BUTYL PHTHALATE | ND | 0.3 | mg/kg | |
| 93106071 | SL | SVO, EPA 8270 | DI-N-OCTYL PHTHALATE | ND | 0.3 | mg/kg | |
| 93106071 | SL | SVO, EPA 8270 | DIBENZO(A,H)ANTHRACENE | ND | 0.3 | mg/kg | |
| 93106071 | SL | SVO, EPA 8270 | DIBENZOFURAN | ND | 0.3 | mg/kg | |
| 93106071 | SL | SVO, EPA 8270 | DIETHYL PHTHALATE | ND | 0.3 | mg/kg | |
| 93106071 | SL | SVO, EPA 8270 | DIMETHYL PHTHALATE | ND | 0.3 | mg/kg | |
| 93106071 | SL | SVO, EPA 8270 | FLUORANTHENE | ND | 0.3 | mg/kg | |
| 93106071 | SL | SVO, EPA 8270 | FLUORENE | ND | 0.3 | mg/kg | |
| 93106071 | SL | SVO, EPA 8270 | HEXACHLOROBENZENE | ND | 0.3 | mg/kg | |
| 93106071 | SL | SVO, EPA 8270 | HEXACHLOROBUTADIENE | ND | 0.3 | mg/kg | |
| 93106071 | SL | SVO, EPA 8270 | HEXACHLOROCYCLOPENTADIENE | ND | 0.3 | mg/kg | |
| 93106071 | SL | SVO, EPA 8270 | HEXACHLOROETHANE | ND | 0.3 | mg/kg | |
| 93106071 | SL | SVO, EPA 8270 | INDENO(1,2,3-CD)PYRENE | ND | 0.3 | mg/kg | |
| 93106071 | SL | SVO, EPA 8270 | ISOPHORONE | ND | 0.3 | mg/kg | |
| 93106071 | SL | SVO, EPA 8270 | N-NITROSO-DI-N-PROPYLAMINE | ND | 0.3 | mg/kg | |
| 93106071 | SL | SVO, EPA 8270 | N-NITROSODIMETHYLAMINE | ND | 2 | mg/kg | |
| 93106071 | SL | SVO, EPA 8270 | N-NITROSODIPHENYLAMINE | ND | 0.3 | mg/kg | |
| 93106071 | SL | SVO, EPA 8270 | NAPHTHALENE | ND | 0.3 | mg/kg | |
| 93106071 | SL | SVO, EPA 8270 | NITROBENZENE | ND | 0.3 | mg/kg | |
| 93106071 | SL | SVO, EPA 8270 | PENTACHLOROPHENOL | ND | 2 | mg/kg | |
| 93106071 | SL | SVO, EPA 8270 | PHENANTHRENE | ND | 0.3 | mg/kg | |
| 93106071 | SL | SVO, EPA 8270 | PHENOL | ND | 0.3 | mg/kg | |
| 93106071 | SL | SVO, EPA 8270 | PYRENE | ND | 0.3 | mg/kg | |
| 93106072 | SL | SVO, EPA 8270 | 1,2,4-TRICHLOROBENZENE | ND | 0.3 | mg/kg | |
| 93106072 | SL | SVO, EPA 8270 | 1,2-DICHLOROBENZENE | ND | 0.3 | mg/kg | |
| 93106072 | SL | SVO, EPA 8270 | 1,3-DICHLOROBENZENE | ND | 0.3 | mg/kg | |
| 93106072 | SL | SVO, EPA 8270 | 1,4-DICHLOROBENZENE | ND | 0.3 | mg/kg | |
| 93106072 | SL | SVO, EPA 8270 | 2,4,5-TRICHLOROPHENOL | ND | 0.3 | mg/kg | |
| 93106072 | SL | SVO, EPA 8270 | 2,4,6-TRICHLOROPHENOL | ND | 0.3 | mg/kg | |
| 93106072 | SL | SVO, EPA 8270 | 2,4-DICHLOROPHENOL | ND | 0.3 | mg/kg | |
| 93106072 | SL | SVO, EPA 8270 | 2,4-DIMETHYLPHENOL | ND | 0.3 | mg/kg | |
| 93106072 | SL | SVO, EPA 8270 | 2,4-DINITROPHENOL | ND | 2 | mg/kg | |
| 93106072 | SL | SVO, EPA 8270 | 2,4-DINITROTOLUENE | ND | 0.3 | mg/kg | |
| 93106072 | SL | SVO, EPA 8270 | 2,6-DINITROTOLUENE | ND | 0.3 | mg/kg | |
| 93106072 | SL | SVO, EPA 8270 | 2-CHLORONAPHTHALENE | ND | 0.3 | mg/kg | |
| 93106072 | SL | SVO, EPA 8270 | 2-CHLOROPHENOL | ND | 0.3 | mg/kg | |
| 93106072 | SL | SVO, EPA 8270 | 2-METHYLNAPHTHALENE | ND | 0.3 | mg/kg | |
| 93106072 | SL | SVO, EPA 8270 | 2-METHYLPHENOL | ND | 0.3 | mg/kg | |
| 93106072 | SL | SVO, EPA 8270 | 2-NITROANILINE | ND | 2 | mg/kg | |
| 93106072 | SL | SVO, EPA 8270 | 2-NITROPHENOL | ND | 0.3 | mg/kg | |
| 93106072 | SL | SVO, EPA 8270 | 3,3'-DICHLOROBENZIDINE | ND | 2 | mg/kg | |
| 93106072 | SL | SVO, EPA 8270 | 3-NITROANILINE | ND | 2 | mg/kg | |
| 93106072 | SL | SVO, EPA 8270 | 4,6-DINITRO-2-METHYLPHENOL | ND | 2 | mg/kg | |
| 93106072 | SL | SVO, EPA 8270 | 4-BROMOPHENYL PHENYL ETHER | ND | 0.3 | mg/kg | |
| 93106072 | SL | SVO, EPA 8270 | 4-CHLORO-3-METHYLPHENOL | ND | 0.3 | mg/kg | |
| 93106072 | SL | SVO, EPA 8270 | 4-CHLOROANILINE | ND | 0.3 | mg/kg | |
| 93106072 | SL | SVO, EPA 8270 | 4-CHLOROPHENYL PHENYL ETHER | ND | 0.3 | mg/kg | |
| 93106072 | SL | SVO, EPA 8270 | 4-METHYLPHENOL | ND | 0.3 | mg/kg | |
| 93106072 | SL | SVO, EPA 8270 | 4-NITROANILINE | ND | 2 | mg/kg | |
| 93106072 | SL | SVO, EPA 8270 | 4-NITROPHENOL | ND | 2 | mg/kg | |
| 93106072 | SL | SVO, EPA 8270 | ACENAPHTHENE | ND | 0.3 | mg/kg | |
| 93106072 | SL | SVO, EPA 8270 | ACENAPHTHYLENE | ND | 0.3 | mg/kg | |
| 93106072 | SL | SVO, EPA 8270 | ANILINE | ND | 1 | mg/kg | |
| 93106072 | SL | SVO, EPA 8270 | ANTHRACENE | ND | 0.3 | mg/kg | |
| 93106072 | SL | SVO, EPA 8270 | BENZO(A)ANTHRACENE | ND | 0.3 | mg/kg | |
| 93106072 | SL | SVO, EPA 8270 | BENZO(A)PYRENE | ND | 0.3 | mg/kg | |
| 93106072 | SL | SVO, EPA 8270 | BENZO(B)FLUORANTHENE | ND | 0.3 | mg/kg | |
| 93106072 | SL | SVO, EPA 8270 | BENZO(GHI)PERYLENE | ND | 0.3 | mg/kg | |
| 93106072 | SL | SVO, EPA 8270 | BENZO(K)FLUORANTHENE | ND | 0.3 | mg/kg | |
| 93106072 | SL | SVO, EPA 8270 | BENZOIC ACID | ND | 2 | mg/kg | |
| 93106072 | SL | SVO, EPA 8270 | BENZYL ALCOHOL | ND | 0.3 | mg/kg | |
| 93106072 | SL | SVO, EPA 8270 | BENZYL BUTYL PHTHALATE | ND | 0.3 | mg/kg | |
| 93106072 | SL | SVO, EPA 8270 | BIS(2-CHLOROETHOXY) METHANE | ND | 0.3 | mg/kg | |
| 93106072 | SL | SVO, EPA 8270 | BIS(2-CHLOROETHYL) ETHER | ND | 0.3 | mg/kg | |
| 93106072 | SL | SVO, EPA 8270 | BIS(2-CHLOROISOPROPYL) ETHER | ND | 0.3 | mg/kg | |

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|---|---|---|---|---|---|---|---|
| 93106072 | SL | SVO, EPA 8270 | BIS(2-ETHYLHEXYL) PHTHALATE | ND | 0.3 | mg/kg | |
| 93106072 | SL | SVO, EPA 8270 | CHRYSENE | ND | 0.3 | mg/kg | |
| 93106072 | SL | SVO, EPA 8270 | DI-N-BUTYL PHTHALATE | ND | 0.3 | mg/kg | |
| 93106072 | SL | SVO, EPA 8270 | DI-N-OCTYL PHTHALATE | ND | 0.3 | mg/kg | |
| 93106072 | SL | SVO, EPA 8270 | DIBENZO(A,H)ANTHRACENE | ND | 0.3 | mg/kg | |
| 93106072 | SL | SVO, EPA 8270 | DIBENZOFURAN | ND | 0.3 | mg/kg | |
| 93106072 | SL | SVO, EPA 8270 | DIETHYL PHTHALATE | ND | 0.3 | mg/kg | |
| 93106072 | SL | SVO, EPA 8270 | DIMETHYL PHTHALATE | ND | 0.3 | mg/kg | |
| 93106072 | SL | SVO, EPA 8270 | FLUORANTHENE | ND | 0.3 | mg/kg | |
| 93106072 | SL | SVO, EPA 8270 | FLUORENE | ND | 0.3 | mg/kg | |
| 93106072 | SL | SVO, EPA 8270 | HEXACHLOROBENZENE | ND | 0.3 | mg/kg | |
| 93106072 | SL | SVO, EPA 8270 | HEXACHLOROBUTADIENE | ND | 0.3 | mg/kg | |
| 93106072 | SL | SVO, EPA 8270 | HEXACHLOROCYCLOPENTADIENE | ND | 0.3 | mg/kg | |
| 93106072 | SL | SVO, EPA 8270 | HEXACHLOROETHANE | ND | 0.3 | mg/kg | |
| 93106072 | SL | SVO, EPA 8270 | INDENO(1,2,3-CD)PYRENE | ND | 0.3 | mg/kg | |
| 93106072 | SL | SVO, EPA 8270 | ISOPHORONE | ND | 0.3 | mg/kg | |
| 93106072 | SL | SVO, EPA 8270 | N-NITROSO-DI-N-PROPYLAMINE | ND | 0.3 | mg/kg | |
| 93106072 | SL | SVO, EPA 8270 | N-NITROSODIMETHYLAMINE | ND | 2 | mg/kg | |
| 93106072 | SL | SVO, EPA 8270 | N-NITROSODIPHENYLAMINE | ND | 0.3 | mg/kg | |
| 93106072 | SL | SVO, EPA 8270 | NAPHTHALENE | ND | 0.3 | mg/kg | |
| 93106072 | SL | SVO, EPA 8270 | NITROBENZENE | ND | 0.3 | mg/kg | |
| 93106072 | SL | SVO, EPA 8270 | PENTACHLOROPHENOL | ND | 2 | mg/kg | |
| 93106072 | SL | SVO, EPA 8270 | PHENANTHRENE | ND | 0.3 | mg/kg | |
| 93106072 | SL | SVO, EPA 8270 | PHENOL | ND | 0.3 | mg/kg | |
| 93106072 | SL | SVO, EPA 8270 | PYRENE | ND | 0.3 | mg/kg | |
| 93106073 | SL | SVO, EPA 8270 | 1,2,4-TRICHLOROBENZENE | ND | 0.3 | mg/kg | |
| 93106073 | SL | SVO, EPA 8270 | 1,2-DICHLOROBENZENE | ND | 0.3 | mg/kg | |
| 93106073 | SL | SVO, EPA 8270 | 1,3-DICHLOROBENZENE | ND | 0.3 | mg/kg | |
| 93106073 | SL | SVO, EPA 8270 | 1,4-DICHLOROBENZENE | ND | 0.3 | mg/kg | |
| 93106073 | SL | SVO, EPA 8270 | 2,4,5-TRICHLOROPHENOL | ND | 0.3 | mg/kg | |
| 93106073 | SL | SVO, EPA 8270 | 2,4,6-TRICHLOROPHENOL | ND | 0.3 | mg/kg | |
| 93106073 | SL | SVO, EPA 8270 | 2,4-DICHLOROPHENOL | ND | 0.3 | mg/kg | |
| 93106073 | SL | SVO, EPA 8270 | 2,4-DIMETHYLPHENOL | ND | 0.3 | mg/kg | |
| 93106073 | SL | SVO, EPA 8270 | 2,4-DINITROPHENOL | ND | 2 | mg/kg | |
| 93106073 | SL | SVO, EPA 8270 | 2,4-DINITROTOLUENE | ND | 0.3 | mg/kg | |
| 93106073 | SL | SVO, EPA 8270 | 2,6-DINITROTOLUENE | ND | 0.3 | mg/kg | |
| 93106073 | SL | SVO, EPA 8270 | 2-CHLORONAPHTHALENE | ND | 0.3 | mg/kg | |
| 93106073 | SL | SVO, EPA 8270 | 2-CHLOROPHENOL | ND | 0.3 | mg/kg | |
| 93106073 | SL | SVO, EPA 8270 | 2-METHYLNAPHTHALENE | ND | 0.3 | mg/kg | |
| 93106073 | SL | SVO, EPA 8270 | 2-METHYLPHENOL | ND | 0.3 | mg/kg | |
| 93106073 | SL | SVO, EPA 8270 | 2-NITROANILINE | ND | 2 | mg/kg | |
| 93106073 | SL | SVO, EPA 8270 | 2-NITROPHENOL | ND | 0.3 | mg/kg | |
| 93106073 | SL | SVO, EPA 8270 | 3,3'-DICHLOROBENZIDINE | ND | 2 | mg/kg | |
| 93106073 | SL | SVO, EPA 8270 | 3-NITROANILINE | ND | 2 | mg/kg | |
| 93106073 | SL | SVO, EPA 8270 | 4,6-DINITRO-2-METHYLPHENOL | ND | 2 | mg/kg | |
| 93106073 | SL | SVO, EPA 8270 | 4-BROMOPHENYL PHENYL ETHER | ND | 0.3 | mg/kg | |
| 93106073 | SL | SVO, EPA 8270 | 4-CHLORO-3-METHYLPHENOL | ND | 0.3 | mg/kg | |
| 93106073 | SL | SVO, EPA 8270 | 4-CHLOROANILINE | ND | 0.3 | mg/kg | |
| 93106073 | SL | SVO, EPA 8270 | 4-CHLOROPHENYL PHENYL ETHER | ND | 0.3 | mg/kg | |
| 93106073 | SL | SVO, EPA 8270 | 4-METHYLPHENOL | ND | 0.3 | mg/kg | |
| 93106073 | SL | SVO, EPA 8270 | 4-NITROANILINE | ND | 2 | mg/kg | |
| 93106073 | SL | SVO, EPA 8270 | 4-NITROPHENOL | ND | 2 | mg/kg | |
| 93106073 | SL | SVO, EPA 8270 | ACENAPHTHENE | ND | 0.3 | mg/kg | |
| 93106073 | SL | SVO, EPA 8270 | ACENAPHTHYLENE | ND | 0.3 | mg/kg | |
| 93106073 | SL | SVO, EPA 8270 | ANILINE | ND | 1 | mg/kg | |
| 93106073 | SL | SVO, EPA 8270 | ANTHRACENE | ND | 0.3 | mg/kg | |
| 93106073 | SL | SVO, EPA 8270 | BENZO(A)ANTHRACENE | ND | 0.3 | mg/kg | |
| 93106073 | SL | SVO, EPA 8270 | BENZO(A)PYRENE | ND | 0.3 | mg/kg | |
| 93106073 | SL | SVO, EPA 8270 | BENZO(B)FLUORANTHENE | ND | 0.3 | mg/kg | |
| 93106073 | SL | SVO, EPA 8270 | BENZO(GHI)PERYLENE | ND | 0.3 | mg/kg | |
| 93106073 | SL | SVO, EPA 8270 | BENZO(K)FLUORANTHENE | ND | 0.3 | mg/kg | |
| 93106073 | SL | SVO, EPA 8270 | BENZOIC ACID | ND | 2 | mg/kg | |
| 93106073 | SL | SVO, EPA 8270 | BENZYL ALCOHOL | ND | 0.3 | mg/kg | |
| 93106073 | SL | SVO, EPA 8270 | BENZYL BUTYL PHTHALATE | ND | 0.3 | mg/kg | |
| 93106073 | SL | SVO, EPA 8270 | BIS(2-CHLOROETHOXY) METHANE | ND | 0.3 | mg/kg | |
| 93106073 | SL | SVO, EPA 8270 | BIS(2-CHLOROETHYL) ETHER | ND | 0.3 | mg/kg | |
| 93106073 | SL | SVO, EPA 8270 | BIS(2-CHLOROISOPROPYL) ETHER | ND | 0.3 | mg/kg | |
| 93106073 | SL | SVO, EPA 8270 | BIS(2-ETHYLHEXYL) PHTHALATE | ND | 0.3 | mg/kg | |
| 93106073 | SL | SVO, EPA 8270 | CHRYSENE | ND | 0.3 | mg/kg | |
| 93106073 | SL | SVO, EPA 8270 | DI-N-BUTYL PHTHALATE | ND | 0.3 | mg/kg | |
| 93106073 | SL | SVO, EPA 8270 | DI-N-OCTYL PHTHALATE | ND | 0.3 | mg/kg | |
| 93106073 | SL | SVO, EPA 8270 | DIBENZO(A,H)ANTHRACENE | ND | 0.3 | mg/kg | |
| 93106073 | SL | SVO, EPA 8270 | DIBENZOFURAN | ND | 0.3 | mg/kg | |
| 93106073 | SL | SVO, EPA 8270 | DIETHYL PHTHALATE | ND | 0.3 | mg/kg | |

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|---|---|---|---|---|---|---|---|
| 93106073 | SL | SVO, EPA 8270 | DIMETHYL PHTHALATE | ND | 0.3 | mg/kg | |
| 93106073 | SL | SVO, EPA 8270 | FLUORANTHENE | ND | 0.3 | mg/kg | |
| 93106073 | SL | SVO, EPA 8270 | FLUORENE | ND | 0.3 | mg/kg | |
| 93106073 | SL | SVO, EPA 8270 | HEXACHLOROBENZENE | ND | 0.3 | mg/kg | |
| 93106073 | SL | SVO, EPA 8270 | HEXACHLOROBUTADIENE | ND | 0.3 | mg/kg | |
| 93106073 | SL | SVO, EPA 8270 | HEXACHLOROCYCLOPENTADIENE | ND | 0.3 | mg/kg | |
| 93106073 | SL | SVO, EPA 8270 | HEXACHLOROETHANE | ND | 0.3 | mg/kg | |
| 93106073 | SL | SVO, EPA 8270 | INDENO(1,2,3-CD)PYRENE | ND | 0.3 | mg/kg | |
| 93106073 | SL | SVO, EPA 8270 | ISOPHORONE | ND | 0.3 | mg/kg | |
| 93106073 | SL | SVO, EPA 8270 | N-NITROSO-DI-N-PROPYLAMINE | ND | 0.3 | mg/kg | |
| 93106073 | SL | SVO, EPA 8270 | N-NITROSODIMETHYLAMINE | ND | 2 | mg/kg | |
| 93106073 | SL | SVO, EPA 8270 | N-NITROSODIPHENYLAMINE | ND | 0.3 | mg/kg | |
| 93106073 | SL | SVO, EPA 8270 | NAPHTHALENE | ND | 0.3 | mg/kg | |
| 93106073 | SL | SVO, EPA 8270 | NITROBENZENE | ND | 0.3 | mg/kg | |
| 93106073 | SL | SVO, EPA 8270 | PENTACHLOROPHENOL | ND | 2 | mg/kg | |
| 93106073 | SL | SVO, EPA 8270 | PHENANTHRENE | ND | 0.3 | mg/kg | |
| 93106073 | SL | SVO, EPA 8270 | PHENOL | ND | 0.3 | mg/kg | |
| 93106073 | SL | SVO, EPA 8270 | PYRENE | ND | 0.3 | mg/kg | |
| 93106074 | SL | SVO, EPA 8270 | 1,2,4-TRICHLOROBENZENE | ND | 0.3 | mg/kg | |
| 93106074 | SL | SVO, EPA 8270 | 1,2-DICHLOROBENZENE | ND | 0.3 | mg/kg | |
| 93106074 | SL | SVO, EPA 8270 | 1,3-DICHLOROBENZENE | ND | 0.3 | mg/kg | |
| 93106074 | SL | SVO, EPA 8270 | 1,4-DICHLOROBENZENE | ND | 0.3 | mg/kg | |
| 93106074 | SL | SVO, EPA 8270 | 2,4,5-TRICHLOROPHENOL | ND | 0.3 | mg/kg | |
| 93106074 | SL | SVO, EPA 8270 | 2,4,6-TRICHLOROPHENOL | ND | 0.3 | mg/kg | |
| 93106074 | SL | SVO, EPA 8270 | 2,4-DICHLOROPHENOL | ND | 0.3 | mg/kg | |
| 93106074 | SL | SVO, EPA 8270 | 2,4-DIMETHYLPHENOL | ND | 0.3 | mg/kg | |
| 93106074 | SL | SVO, EPA 8270 | 2,4-DINITROPHENOL | ND | 2 | mg/kg | |
| 93106074 | SL | SVO, EPA 8270 | 2,4-DINITROTOLUENE | ND | 0.3 | mg/kg | |
| 93106074 | SL | SVO, EPA 8270 | 2,6-DINITROTOLUENE | ND | 0.3 | mg/kg | |
| 93106074 | SL | SVO, EPA 8270 | 2-CHLORONAPHTHALENE | ND | 0.3 | mg/kg | |
| 93106074 | SL | SVO, EPA 8270 | 2-CHLOROPHENOL | ND | 0.3 | mg/kg | |
| 93106074 | SL | SVO, EPA 8270 | 2-METHYLNAPHTHALENE | ND | 0.3 | mg/kg | |
| 93106074 | SL | SVO, EPA 8270 | 2-METHYLPHENOL | ND | 0.3 | mg/kg | |
| 93106074 | SL | SVO, EPA 8270 | 2-NITROANILINE | ND | 2 | mg/kg | |
| 93106074 | SL | SVO, EPA 8270 | 2-NITROPHENOL | ND | 0.3 | mg/kg | |
| 93106074 | SL | SVO, EPA 8270 | 3,3'-DICHLOROBENZIDINE | ND | 2 | mg/kg | |
| 93106074 | SL | SVO, EPA 8270 | 3-NITROANILINE | ND | 2 | mg/kg | |
| 93106074 | SL | SVO, EPA 8270 | 4,6-DINITRO-2-METHYLPHENOL | ND | 2 | mg/kg | |
| 93106074 | SL | SVO, EPA 8270 | 4-BROMOPHENYL PHENYL ETHER | ND | 0.3 | mg/kg | |
| 93106074 | SL | SVO, EPA 8270 | 4-CHLORO-3-METHYLPHENOL | ND | 0.3 | mg/kg | |
| 93106074 | SL | SVO, EPA 8270 | 4-CHLOROANILINE | ND | 0.3 | mg/kg | |
| 93106074 | SL | SVO, EPA 8270 | 4-CHLOROPHENYL PHENYL ETHER | ND | 0.3 | mg/kg | |
| 93106074 | SL | SVO, EPA 8270 | 4-METHYLPHENOL | ND | 0.3 | mg/kg | |
| 93106074 | SL | SVO, EPA 8270 | 4-NITROANILINE | ND | 2 | mg/kg | |
| 93106074 | SL | SVO, EPA 8270 | 4-NITROPHENOL | ND | 2 | mg/kg | |
| 93106074 | SL | SVO, EPA 8270 | ACENAPHTHENE | ND | 0.3 | mg/kg | |
| 93106074 | SL | SVO, EPA 8270 | ACENAPHTHYLENE | ND | 0.3 | mg/kg | |
| 93106074 | SL | SVO, EPA 8270 | ANILINE | ND | 1 | mg/kg | |
| 93106074 | SL | SVO, EPA 8270 | ANTHRACENE | ND | 0.3 | mg/kg | |
| 93106074 | SL | SVO, EPA 8270 | BENZO(A)ANTHRACENE | ND | 0.3 | mg/kg | |
| 93106074 | SL | SVO, EPA 8270 | BENZO(A)PYRENE | ND | 0.3 | mg/kg | |
| 93106074 | SL | SVO, EPA 8270 | BENZO(B)FLUORANTHENE | ND | 0.3 | mg/kg | |
| 93106074 | SL | SVO, EPA 8270 | BENZO(GHI)PERYLENE | ND | 0.3 | mg/kg | |
| 93106074 | SL | SVO, EPA 8270 | BENZO(K)FLUORANTHENE | ND | 0.3 | mg/kg | |
| 93106074 | SL | SVO, EPA 8270 | BENZOIC ACID | ND | 2 | mg/kg | |
| 93106074 | SL | SVO, EPA 8270 | BENZYL ALCOHOL | ND | 0.3 | mg/kg | |
| 93106074 | SL | SVO, EPA 8270 | BENZYL BUTYL PHTHALATE | ND | 0.3 | mg/kg | |
| 93106074 | SL | SVO, EPA 8270 | BIS(2-CHLOROETHOXY) METHANE | ND | 0.3 | mg/kg | |
| 93106074 | SL | SVO, EPA 8270 | BIS(2-CHLOROETHYL) ETHER | ND | 0.3 | mg/kg | |
| 93106074 | SL | SVO, EPA 8270 | BIS(2-CHLOROISOPROPYL) ETHER | ND | 0.3 | mg/kg | |
| 93106074 | SL | SVO, EPA 8270 | BIS(2-ETHYLHEXYL) PHTHALATE | ND | 0.3 | mg/kg | |
| 93106074 | SL | SVO, EPA 8270 | CHRYSENE | ND | 0.3 | mg/kg | |
| 93106074 | SL | SVO, EPA 8270 | DI-N-BUTYL PHTHALATE | ND | 0.3 | mg/kg | |
| 93106074 | SL | SVO, EPA 8270 | DI-N-OCTYL PHTHALATE | ND | 0.3 | mg/kg | |
| 93106074 | SL | SVO, EPA 8270 | DIBENZO(A,H)ANTHRACENE | ND | 0.3 | mg/kg | |
| 93106074 | SL | SVO, EPA 8270 | DIBENZOFURAN | ND | 0.3 | mg/kg | |
| 93106074 | SL | SVO, EPA 8270 | DIETHYL PHTHALATE | ND | 0.3 | mg/kg | |
| 93106074 | SL | SVO, EPA 8270 | DIMETHYL PHTHALATE | ND | 0.3 | mg/kg | |
| 93106074 | SL | SVO, EPA 8270 | FLUORANTHENE | ND | 0.3 | mg/kg | |
| 93106074 | SL | SVO, EPA 8270 | FLUORENE | ND | 0.3 | mg/kg | |
| 93106074 | SL | SVO, EPA 8270 | HEXACHLOROBENZENE | ND | 0.3 | mg/kg | |
| 93106074 | SL | SVO, EPA 8270 | HEXACHLOROBUTADIENE | ND | 0.3 | mg/kg | |
| 93106074 | SL | SVO, EPA 8270 | HEXACHLOROCYCLOPENTADIENE | ND | 0.3 | mg/kg | |
| 93106074 | SL | SVO, EPA 8270 | HEXACHLOROETHANE | ND | 0.3 | mg/kg | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 93106074 | SL | SVO, EPA 8270 | INDENO(1,2,3-CD)PYRENE | ND | 0.3 | mg/kg | |
| 93106074 | SL | SVO, EPA 8270 | ISOPHORONE | ND | 0.3 | mg/kg | |
| 93106074 | SL | SVO, EPA 8270 | N-NITROSO-DI-N-PROPYLAMINE | ND | 0.3 | mg/kg | |
| 93106074 | SL | SVO, EPA 8270 | N-NITROSODIMETHYLAMINE | ND | 2 | mg/kg | |
| 93106074 | SL | SVO, EPA 8270 | N-NITROSODIPHENYLAMINE | ND | 0.3 | mg/kg | |
| 93106074 | SL | SVO, EPA 8270 | NAPHTHALENE | ND | 0.3 | mg/kg | |
| 93106074 | SL | SVO, EPA 8270 | NITROBENZENE | ND | 0.3 | mg/kg | |
| 93106074 | SL | SVO, EPA 8270 | PENTACHLOROPHENOL | ND | 2 | mg/kg | |
| 93106074 | SL | SVO, EPA 8270 | PHENANTHRENE | ND | 0.3 | mg/kg | |
| 93106074 | SL | SVO, EPA 8270 | PHENOL | ND | 0.3 | mg/kg | |
| 93106074 | SL | SVO, EPA 8270 | PYRENE | ND | 0.3 | mg/kg | |
| 93106075 | SL | SVO, EPA 8270 | 1,2,4-TRICHLOROBENZENE | ND | 0.3 | mg/kg | |
| 93106075 | SL | SVO, EPA 8270 | 1,2-DICHLOROBENZENE | ND | 0.3 | mg/kg | |
| 93106075 | SL | SVO, EPA 8270 | 1,3-DICHLOROBENZENE | ND | 0.3 | mg/kg | |
| 93106075 | SL | SVO, EPA 8270 | 1,4-DICHLOROBENZENE | ND | 0.3 | mg/kg | |
| 93106075 | SL | SVO, EPA 8270 | 2,4,5-TRICHLOROPHENOL | ND | 0.3 | mg/kg | |
| 93106075 | SL | SVO, EPA 8270 | 2,4,6-TRICHLOROPHENOL | ND | 0.3 | mg/kg | |
| 93106075 | SL | SVO, EPA 8270 | 2,4-DICHLOROPHENOL | ND | 0.3 | mg/kg | |
| 93106075 | SL | SVO, EPA 8270 | 2,4-DIMETHYLPHENOL | ND | 0.3 | mg/kg | |
| 93106075 | SL | SVO, EPA 8270 | 2,4-DINITROPHENOL | ND | 2 | mg/kg | |
| 93106075 | SL | SVO, EPA 8270 | 2,4-DINITROTOLUENE | ND | 0.3 | mg/kg | |
| 93106075 | SL | SVO, EPA 8270 | 2,6-DINITROTOLUENE | ND | 0.3 | mg/kg | |
| 93106075 | SL | SVO, EPA 8270 | 2-CHLORONAPHTHALENE | ND | 0.3 | mg/kg | |
| 93106075 | SL | SVO, EPA 8270 | 2-CHLOROPHENOL | ND | 0.3 | mg/kg | |
| 93106075 | SL | SVO, EPA 8270 | 2-METHYLNAPHTHALENE | ND | 0.3 | mg/kg | |
| 93106075 | SL | SVO, EPA 8270 | 2-METHYLPHENOL | ND | 0.3 | mg/kg | |
| 93106075 | SL | SVO, EPA 8270 | 2-NITROANILINE | ND | 2 | mg/kg | |
| 93106075 | SL | SVO, EPA 8270 | 2-NITROPHENOL | ND | 0.3 | mg/kg | |
| 93106075 | SL | SVO, EPA 8270 | 3,3'-DICHLOROBENZIDINE | ND | 2 | mg/kg | |
| 93106075 | SL | SVO, EPA 8270 | 3-NITROANILINE | ND | 2 | mg/kg | |
| 93106075 | SL | SVO, EPA 8270 | 4,6-DINITRO-2-METHYLPHENOL | ND | 2 | mg/kg | |
| 93106075 | SL | SVO, EPA 8270 | 4-BROMOPHENYL PHENYL ETHER | ND | 0.3 | mg/kg | |
| 93106075 | SL | SVO, EPA 8270 | 4-CHLORO-3-METHYLPHENOL | ND | 0.3 | mg/kg | |
| 93106075 | SL | SVO, EPA 8270 | 4-CHLOROANILINE | ND | 0.3 | mg/kg | |
| 93106075 | SL | SVO, EPA 8270 | 4-CHLOROPHENYL PHENYL ETHER | ND | 0.3 | mg/kg | |
| 93106075 | SL | SVO, EPA 8270 | 4-METHYLPHENOL | ND | 0.3 | mg/kg | |
| 93106075 | SL | SVO, EPA 8270 | 4-NITROANILINE | ND | 2 | mg/kg | |
| 93106075 | SL | SVO, EPA 8270 | 4-NITROPHENOL | ND | 2 | mg/kg | |
| 93106075 | SL | SVO, EPA 8270 | ACENAPHTHENE | ND | 0.3 | mg/kg | |
| 93106075 | SL | SVO, EPA 8270 | ACENAPHTHYLENE | ND | 0.3 | mg/kg | |
| 93106075 | SL | SVO, EPA 8270 | ANILINE | ND | 1 | mg/kg | |
| 93106075 | SL | SVO, EPA 8270 | ANTHRACENE | ND | 0.3 | mg/kg | |
| 93106075 | SL | SVO, EPA 8270 | BENZO(A)ANTHRACENE | ND | 0.3 | mg/kg | |
| 93106075 | SL | SVO, EPA 8270 | BENZO(A)PYRENE | ND | 0.3 | mg/kg | |
| 93106075 | SL | SVO, EPA 8270 | BENZO(B)FLUORANTHENE | ND | 0.3 | mg/kg | |
| 93106075 | SL | SVO, EPA 8270 | BENZO(GHI)PERYLENE | ND | 0.3 | mg/kg | |
| 93106075 | SL | SVO, EPA 8270 | BENZO(K)FLUORANTHENE | ND | 0.3 | mg/kg | |
| 93106075 | SL | SVO, EPA 8270 | BENZOIC ACID | ND | 2 | mg/kg | |
| 93106075 | SL | SVO, EPA 8270 | BENZYL ALCOHOL | ND | 0.3 | mg/kg | |
| 93106075 | SL | SVO, EPA 8270 | BENZYL BUTYL PHTHALATE | ND | 0.3 | mg/kg | |
| 93106075 | SL | SVO, EPA 8270 | BIS(2-CHLOROETHOXY) METHANE | ND | 0.3 | mg/kg | |
| 93106075 | SL | SVO, EPA 8270 | BIS(2-CHLOROETHYL) ETHER | ND | 0.3 | mg/kg | |
| 93106075 | SL | SVO, EPA 8270 | BIS(2-CHLOROISOPROPYL) ETHER | ND | 0.3 | mg/kg | |
| 93106075 | SL | SVO, EPA 8270 | BIS(2-ETHYLHEXYL) PHTHALATE | ND | 0.3 | mg/kg | |
| 93106075 | SL | SVO, EPA 8270 | CHRYSENE | ND | 0.3 | mg/kg | |
| 93106075 | SL | SVO, EPA 8270 | DI-N-BUTYL PHTHALATE | ND | 0.3 | mg/kg | |
| 93106075 | SL | SVO, EPA 8270 | DI-N-OCTYL PHTHALATE | ND | 0.3 | mg/kg | |
| 93106075 | SL | SVO, EPA 8270 | DIBENZO(A,H)ANTHRACENE | ND | 0.3 | mg/kg | |
| 93106075 | SL | SVO, EPA 8270 | DIBENZOFURAN | ND | 0.3 | mg/kg | |
| 93106075 | SL | SVO, EPA 8270 | DIETHYL PHTHALATE | ND | 0.3 | mg/kg | |
| 93106075 | SL | SVO, EPA 8270 | DIMETHYL PHTHALATE | ND | 0.3 | mg/kg | |
| 93106075 | SL | SVO, EPA 8270 | FLUORANTHENE | ND | 0.3 | mg/kg | |
| 93106075 | SL | SVO, EPA 8270 | FLUORENE | ND | 0.3 | mg/kg | |
| 93106075 | SL | SVO, EPA 8270 | HEXACHLOROBENZENE | ND | 0.3 | mg/kg | |
| 93106075 | SL | SVO, EPA 8270 | HEXACHLOROBUTADIENE | ND | 0.3 | mg/kg | |
| 93106075 | SL | SVO, EPA 8270 | HEXACHLOROCYCLOPENTADIENE | ND | 0.3 | mg/kg | |
| 93106075 | SL | SVO, EPA 8270 | HEXACHLOROETHANE | ND | 0.3 | mg/kg | |
| 93106075 | SL | SVO, EPA 8270 | INDENO(1,2,3-CD)PYRENE | ND | 0.3 | mg/kg | |
| 93106075 | SL | SVO, EPA 8270 | ISOPHORONE | ND | 0.3 | mg/kg | |
| 93106075 | SL | SVO, EPA 8270 | N-NITROSO-DI-N-PROPYLAMINE | ND | 0.3 | mg/kg | |
| 93106075 | SL | SVO, EPA 8270 | N-NITROSODIMETHYLAMINE | ND | 2 | mg/kg | |
| 93106075 | SL | SVO, EPA 8270 | N-NITROSODIPHENYLAMINE | ND | 0.3 | mg/kg | |
| 93106075 | SL | SVO, EPA 8270 | NAPHTHALENE | ND | 0.3 | mg/kg | |
| 93106075 | SL | SVO, EPA 8270 | NITROBENZENE | ND | 0.3 | mg/kg | |

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|---|---|---|---|---|---|---|---|
| 93106075 | SL | SVO, EPA 8270 | PENTACHLOROPHENOL | ND | 2 | mg/kg | |
| 93106075 | SL | SVO, EPA 8270 | PHENANTHRENE | ND | 0.3 | mg/kg | |
| 93106075 | SL | SVO, EPA 8270 | PHENOL | ND | 0.3 | mg/kg | |
| 93106075 | SL | SVO, EPA 8270 | PYRENE | ND | 0.3 | mg/kg | |
| 93106049 | SR | SVO, EPA 8270 | 1,2,4-TRICHLOROBENZENE | ND | 10 | ug/l | |
| 93106049 | SR | SVO, EPA 8270 | 1,2-DICHLOROBENZENE | ND | 10 | ug/l | |
| 93106049 | SR | SVO, EPA 8270 | 1,3-DICHLOROBENZENE | ND | 10 | ug/l | |
| 93106049 | SR | SVO, EPA 8270 | 1,4-DICHLOROBENZENE | ND | 10 | ug/l | |
| 93106049 | SR | SVO, EPA 8270 | 2,4,5-TRICHLOROPHENOL | ND | 10 | ug/l | |
| 93106049 | SR | SVO, EPA 8270 | 2,4,6-TRICHLOROPHENOL | ND | 10 | ug/l | |
| 93106049 | SR | SVO, EPA 8270 | 2,4-DICHLOROPHENOL | ND | 10 | ug/l | |
| 93106049 | SR | SVO, EPA 8270 | 2,4-DIMETHYLPHENOL | ND | 10 | ug/l | |
| 93106049 | SR | SVO, EPA 8270 | 2,4-DINITROPHENOL | ND | 25 | ug/l | |
| 93106049 | SR | SVO, EPA 8270 | 2,4-DINITROTOLUENE | ND | 10 | ug/l | |
| 93106049 | SR | SVO, EPA 8270 | 2,6-DINITROTOLUENE | ND | 10 | ug/l | |
| 93106049 | SR | SVO, EPA 8270 | 2-CHLORONAPHTHALENE | ND | 10 | ug/l | |
| 93106049 | SR | SVO, EPA 8270 | 2-CHLOROPHENOL | ND | 10 | ug/l | |
| 93106049 | SR | SVO, EPA 8270 | 2-METHYLNAPHTHALENE | ND | 10 | ug/l | |
| 93106049 | SR | SVO, EPA 8270 | 2-METHYLPHENOL | ND | 10 | ug/l | |
| 93106049 | SR | SVO, EPA 8270 | 2-NITROANILINE | ND | 25 | ug/l | |
| 93106049 | SR | SVO, EPA 8270 | 2-NITROPHENOL | ND | 10 | ug/l | |
| 93106049 | SR | SVO, EPA 8270 | 3,3'-DICHLOROBENZIDINE | ND | 25 | ug/l | |
| 93106049 | SR | SVO, EPA 8270 | 3-NITROANILINE | ND | 25 | ug/l | |
| 93106049 | SR | SVO, EPA 8270 | 4,6-DINITRO-2-METHYLPHENOL | ND | 25 | ug/l | |
| 93106049 | SR | SVO, EPA 8270 | 4-BROMOPHENYL PHENYL ETHER | ND | 10 | ug/l | |
| 93106049 | SR | SVO, EPA 8270 | 4-CHLORO-3-METHYLPHENOL | ND | 10 | ug/l | |
| 93106049 | SR | SVO, EPA 8270 | 4-CHLOROANILINE | ND | 10 | ug/l | |
| 93106049 | SR | SVO, EPA 8270 | 4-CHLOROPHENYL PHENYL ETHER | ND | 10 | ug/l | |
| 93106049 | SR | SVO, EPA 8270 | 4-METHYLPHENOL | ND | 10 | ug/l | |
| 93106049 | SR | SVO, EPA 8270 | 4-NITROANILINE | ND | 25 | ug/l | |
| 93106049 | SR | SVO, EPA 8270 | 4-NITROPHENOL | ND | 25 | ug/l | |
| 93106049 | SR | SVO, EPA 8270 | ACENAPHTHENE | ND | 10 | ug/l | |
| 93106049 | SR | SVO, EPA 8270 | ACENAPHTHYLENE | ND | 10 | ug/l | |
| 93106049 | SR | SVO, EPA 8270 | ANILINE | ND | 25 | ug/l | |
| 93106049 | SR | SVO, EPA 8270 | ANTHRACENE | ND | 10 | ug/l | |
| 93106049 | SR | SVO, EPA 8270 | BENZO(A)ANTHRACENE | ND | 10 | ug/l | |
| 93106049 | SR | SVO, EPA 8270 | BENZO(A)PYRENE | ND | 10 | ug/l | |
| 93106049 | SR | SVO, EPA 8270 | BENZO(B)FLUORANTHENE | ND | 10 | ug/l | |
| 93106049 | SR | SVO, EPA 8270 | BENZO(GHI)PERYLENE | ND | 10 | ug/l | |
| 93106049 | SR | SVO, EPA 8270 | BENZO(K)FLUORANTHENE | ND | 10 | ug/l | |
| 93106049 | SR | SVO, EPA 8270 | BENZOIC ACID | ND | 25 | ug/l | |
| 93106049 | SR | SVO, EPA 8270 | BENZYL ALCOHOL | ND | 10 | ug/l | |
| 93106049 | SR | SVO, EPA 8270 | BENZYL BUTYL PHTHALATE | ND | 10 | ug/l | |
| 93106049 | SR | SVO, EPA 8270 | BIS(2-CHLOROETHOXY) METHANE | ND | 10 | ug/l | |
| 93106049 | SR | SVO, EPA 8270 | BIS(2-CHLOROETHYL) ETHER | ND | 10 | ug/l | |
| 93106049 | SR | SVO, EPA 8270 | BIS(2-CHLOROISOPROPYL) ETHER | ND | 10 | ug/l | |
| 93106049 | SR | SVO, EPA 8270 | BIS(2-ETHYLHEXYL) PHTHALATE | ND | 10 | ug/l | |
| 93106049 | SR | SVO, EPA 8270 | CHRYSENE | ND | 10 | ug/l | |
| 93106049 | SR | SVO, EPA 8270 | DI-N-BUTYL PHTHALATE | ND | 10 | ug/l | |
| 93106049 | SR | SVO, EPA 8270 | DI-N-OCTYL PHTHALATE | ND | 10 | ug/l | |
| 93106049 | SR | SVO, EPA 8270 | DIBENZO(A,H)ANTHRACENE | ND | 10 | ug/l | |
| 93106049 | SR | SVO, EPA 8270 | DIBENZOFURAN | ND | 10 | ug/l | |
| 93106049 | SR | SVO, EPA 8270 | DIETHYL PHTHALATE | ND | 10 | ug/l | |
| 93106049 | SR | SVO, EPA 8270 | DIMETHYL PHTHALATE | ND | 10 | ug/l | |
| 93106049 | SR | SVO, EPA 8270 | FLUORANTHENE | ND | 10 | ug/l | |
| 93106049 | SR | SVO, EPA 8270 | FLUORENE | ND | 10 | ug/l | |
| 93106049 | SR | SVO, EPA 8270 | HEXACHLOROBENZENE | ND | 10 | ug/l | |
| 93106049 | SR | SVO, EPA 8270 | HEXACHLOROBUTADIENE | ND | 10 | ug/l | |
| 93106049 | SR | SVO, EPA 8270 | HEXACHLOROCYCLOPENTADIENE | ND | 10 | ug/l | |
| 93106049 | SR | SVO, EPA 8270 | HEXACHLOROETHANE | ND | 10 | ug/l | |
| 93106049 | SR | SVO, EPA 8270 | INDENO(1,2,3-CD)PYRENE | ND | 10 | ug/l | |
| 93106049 | SR | SVO, EPA 8270 | ISOPHORONE | ND | 10 | ug/l | |
| 93106049 | SR | SVO, EPA 8270 | N-NITROSO-DI-N-PROPYLAMINE | ND | 10 | ug/l | |
| 93106049 | SR | SVO, EPA 8270 | N-NITROSODIMETHYLAMINE | ND | 25 | ug/l | |
| 93106049 | SR | SVO, EPA 8270 | N-NITROSODIPHENYLAMINE | ND | 10 | ug/l | |
| 93106049 | SR | SVO, EPA 8270 | NAPHTHALENE | ND | 10 | ug/l | |
| 93106049 | SR | SVO, EPA 8270 | NITROBENZENE | ND | 10 | ug/l | |
| 93106049 | SR | SVO, EPA 8270 | PENTACHLOROPHENOL | ND | 25 | ug/l | |
| 93106049 | SR | SVO, EPA 8270 | PHENANTHRENE | ND | 10 | ug/l | |
| 93106049 | SR | SVO, EPA 8270 | PHENOL | ND | 10 | ug/l | |
| 93106049 | SR | SVO, EPA 8270 | PYRENE | ND | 10 | ug/l | |
| 93106076 | SL | SVO, EPA 8270 | 1,2,4-TRICHLOROBENZENE | ND | 0.3 | mg/kg | |
| 93106076 | SL | SVO, EPA 8270 | 1,2-DICHLOROBENZENE | ND | 0.3 | mg/kg | |
| 93106076 | SL | SVO, EPA 8270 | 1,3-DICHLOROBENZENE | ND | 0.3 | mg/kg | |

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|---|---|---|---|---|---|---|---|
| 93106076 | SL | SVO, EPA 8270 | 1,4-DICHLOROBENZENE | ND | 0.3 | mg/kg | |
| 93106076 | SL | SVO, EPA 8270 | 2,4,5-TRICHLOROPHENOL | ND | 0.3 | mg/kg | |
| 93106076 | SL | SVO, EPA 8270 | 2,4,6-TRICHLOROPHENOL | ND | 0.3 | mg/kg | |
| 93106076 | SL | SVO, EPA 8270 | 2,4-DICHLOROPHENOL | ND | 0.3 | mg/kg | |
| 93106076 | SL | SVO, EPA 8270 | 2,4-DIMETHYLPHENOL | ND | 0.3 | mg/kg | |
| 93106076 | SL | SVO, EPA 8270 | 2,4-DINITROPHENOL | ND | 2 | mg/kg | |
| 93106076 | SL | SVO, EPA 8270 | 2,4-DINITROTOLUENE | ND | 0.3 | mg/kg | |
| 93106076 | SL | SVO, EPA 8270 | 2,6-DINITROTOLUENE | ND | 0.3 | mg/kg | |
| 93106076 | SL | SVO, EPA 8270 | 2-CHLORONAPHTHALENE | ND | 0.3 | mg/kg | |
| 93106076 | SL | SVO, EPA 8270 | 2-CHLOROPHENOL | ND | 0.3 | mg/kg | |
| 93106076 | SL | SVO, EPA 8270 | 2-METHYLNAPHTHALENE | ND | 0.3 | mg/kg | |
| 93106076 | SL | SVO, EPA 8270 | 2-METHYLPHENOL | ND | 0.3 | mg/kg | |
| 93106076 | SL | SVO, EPA 8270 | 2-NITROANILINE | ND | 2 | mg/kg | |
| 93106076 | SL | SVO, EPA 8270 | 2-NITROPHENOL | ND | 0.3 | mg/kg | |
| 93106076 | SL | SVO, EPA 8270 | 3,3'-DICHLOROBENZIDINE | ND | 2 | mg/kg | |
| 93106076 | SL | SVO, EPA 8270 | 3-NITROANILINE | ND | 2 | mg/kg | |
| 93106076 | SL | SVO, EPA 8270 | 4,6-DINITRO-2-METHYLPHENOL | ND | 2 | mg/kg | |
| 93106076 | SL | SVO, EPA 8270 | 4-BROMOPHENYL PHENYL ETHER | ND | 0.3 | mg/kg | |
| 93106076 | SL | SVO, EPA 8270 | 4-CHLORO-3-METHYLPHENOL | ND | 0.3 | mg/kg | |
| 93106076 | SL | SVO, EPA 8270 | 4-CHLOROANILINE | ND | 0.3 | mg/kg | |
| 93106076 | SL | SVO, EPA 8270 | 4-CHLOROPHENYL PHENYL ETHER | ND | 0.3 | mg/kg | |
| 93106076 | SL | SVO, EPA 8270 | 4-METHYLPHENOL | ND | 0.3 | mg/kg | |
| 93106076 | SL | SVO, EPA 8270 | 4-NITROANILINE | ND | 2 | mg/kg | |
| 93106076 | SL | SVO, EPA 8270 | 4-NITROPHENOL | ND | 2 | mg/kg | |
| 93106076 | SL | SVO, EPA 8270 | ACENAPHTHENE | ND | 0.3 | mg/kg | |
| 93106076 | SL | SVO, EPA 8270 | ACENAPHTHYLENE | ND | 0.3 | mg/kg | |
| 93106076 | SL | SVO, EPA 8270 | ANILINE | ND | 1 | mg/kg | |
| 93106076 | SL | SVO, EPA 8270 | ANTHRACENE | ND | 0.3 | mg/kg | |
| 93106076 | SL | SVO, EPA 8270 | BENZO(A)ANTHRACENE | ND | 0.3 | mg/kg | |
| 93106076 | SL | SVO, EPA 8270 | BENZO(A)PYRENE | ND | 0.3 | mg/kg | |
| 93106076 | SL | SVO, EPA 8270 | BENZO(B)FLUORANTHENE | ND | 0.3 | mg/kg | |
| 93106076 | SL | SVO, EPA 8270 | BENZO(GHI)PERYLENE | ND | 0.3 | mg/kg | |
| 93106076 | SL | SVO, EPA 8270 | BENZO(K)FLUORANTHENE | ND | 0.3 | mg/kg | |
| 93106076 | SL | SVO, EPA 8270 | BENZOIC ACID | ND | 2 | mg/kg | |
| 93106076 | SL | SVO, EPA 8270 | BENZYL ALCOHOL | ND | 0.3 | mg/kg | |
| 93106076 | SL | SVO, EPA 8270 | BENZYL BUTYL PHTHALATE | ND | 0.3 | mg/kg | |
| 93106076 | SL | SVO, EPA 8270 | BIS(2-CHLOROETHOXY) METHANE | ND | 0.3 | mg/kg | |
| 93106076 | SL | SVO, EPA 8270 | BIS(2-CHLOROETHYL) ETHER | ND | 0.3 | mg/kg | |
| 93106076 | SL | SVO, EPA 8270 | BIS(2-CHLOROISOPROPYL) ETHER | ND | 0.3 | mg/kg | |
| 93106076 | SL | SVO, EPA 8270 | BIS(2-ETHYLHEXYL) PHTHALATE | ND | 0.3 | mg/kg | |
| 93106076 | SL | SVO, EPA 8270 | CHRYSENE | ND | 0.3 | mg/kg | |
| 93106076 | SL | SVO, EPA 8270 | DI-N-BUTYL PHTHALATE | ND | 0.3 | mg/kg | |
| 93106076 | SL | SVO, EPA 8270 | DI-N-OCTYL PHTHALATE | ND | 0.3 | mg/kg | |
| 93106076 | SL | SVO, EPA 8270 | DIBENZO(A,H)ANTHRACENE | ND | 0.3 | mg/kg | |
| 93106076 | SL | SVO, EPA 8270 | DIBENZOFURAN | ND | 0.3 | mg/kg | |
| 93106076 | SL | SVO, EPA 8270 | DIETHYL PHTHALATE | ND | 0.3 | mg/kg | |
| 93106076 | SL | SVO, EPA 8270 | DIMETHYL PHTHALATE | ND | 0.3 | mg/kg | |
| 93106076 | SL | SVO, EPA 8270 | FLUORANTHENE | ND | 0.3 | mg/kg | |
| 93106076 | SL | SVO, EPA 8270 | FLUORENE | ND | 0.3 | mg/kg | |
| 93106076 | SL | SVO, EPA 8270 | HEXACHLOROBENZENE | ND | 0.3 | mg/kg | |
| 93106076 | SL | SVO, EPA 8270 | HEXACHLOROBUTADIENE | ND | 0.3 | mg/kg | |
| 93106076 | SL | SVO, EPA 8270 | HEXACHLOROCYCLOPENTADIENE | ND | 0.3 | mg/kg | |
| 93106076 | SL | SVO, EPA 8270 | HEXACHLOROETHANE | ND | 0.3 | mg/kg | |
| 93106076 | SL | SVO, EPA 8270 | INDENO(1,2,3-CD)PYRENE | ND | 0.3 | mg/kg | |
| 93106076 | SL | SVO, EPA 8270 | ISOPHORONE | ND | 0.3 | mg/kg | |
| 93106076 | SL | SVO, EPA 8270 | N-NITROSO-DI-N-PROPYLAMINE | ND | 0.3 | mg/kg | |
| 93106076 | SL | SVO, EPA 8270 | N-NITROSODIMETHYLAMINE | ND | 2 | mg/kg | |
| 93106076 | SL | SVO, EPA 8270 | N-NITROSODIPHENYLAMINE | ND | 0.3 | mg/kg | |
| 93106076 | SL | SVO, EPA 8270 | NAPHTHALENE | ND | 0.3 | mg/kg | |
| 93106076 | SL | SVO, EPA 8270 | NITROBENZENE | ND | 0.3 | mg/kg | |
| 93106076 | SL | SVO, EPA 8270 | PENTACHLOROPHENOL | ND | 2 | mg/kg | |
| 93106076 | SL | SVO, EPA 8270 | PHENANTHRENE | ND | 0.3 | mg/kg | |
| 93106076 | SL | SVO, EPA 8270 | PHENOL | ND | 0.3 | mg/kg | |
| 93106076 | SL | SVO, EPA 8270 | PYRENE | ND | 0.3 | mg/kg | |
| 93106100 | SL | SVO, EPA 8270 | 1,2,4-TRICHLOROBENZENE | ND | 0.3 | mg/kg | |
| 93106100 | SL | SVO, EPA 8270 | 1,2-DICHLOROBENZENE | ND | 0.3 | mg/kg | |
| 93106100 | SL | SVO, EPA 8270 | 1,3-DICHLOROBENZENE | ND | 0.3 | mg/kg | |
| 93106100 | SL | SVO, EPA 8270 | 1,4-DICHLOROBENZENE | ND | 0.3 | mg/kg | |
| 93106100 | SL | SVO, EPA 8270 | 2,4,5-TRICHLOROPHENOL | ND | 0.3 | mg/kg | |
| 93106100 | SL | SVO, EPA 8270 | 2,4,6-TRICHLOROPHENOL | ND | 0.3 | mg/kg | |
| 93106100 | SL | SVO, EPA 8270 | 2,4-DICHLOROPHENOL | ND | 0.3 | mg/kg | |
| 93106100 | SL | SVO, EPA 8270 | 2,4-DIMETHYLPHENOL | ND | 0.3 | mg/kg | |
| 93106100 | SL | SVO, EPA 8270 | 2,4-DINITROPHENOL | ND | 2 | mg/kg | |
| 93106100 | SL | SVO, EPA 8270 | 2,4-DINITROTOLUENE | ND | 0.3 | mg/kg | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 93106100 | SL | SVO, EPA 8270 | 2,6-DINITROTOLUENE | ND | 0.3 | mg/kg | |
| 93106100 | SL | SVO, EPA 8270 | 2-CHLORONAPHTHALENE | ND | 0.3 | mg/kg | |
| 93106100 | SL | SVO, EPA 8270 | 2-CHLOROPHENOL | ND | 0.3 | mg/kg | |
| 93106100 | SL | SVO, EPA 8270 | 2-METHYLNAPHTHALENE | ND | 0.3 | mg/kg | |
| 93106100 | SL | SVO, EPA 8270 | 2-METHYLPHENOL | ND | 0.3 | mg/kg | |
| 93106100 | SL | SVO, EPA 8270 | 2-NITROANILINE | ND | 2 | mg/kg | |
| 93106100 | SL | SVO, EPA 8270 | 2-NITROPHENOL | ND | 0.3 | mg/kg | |
| 93106100 | SL | SVO, EPA 8270 | 3,3'-DICHLOROBENZIDINE | ND | 2 | mg/kg | |
| 93106100 | SL | SVO, EPA 8270 | 3-NITROANILINE | ND | 2 | mg/kg | |
| 93106100 | SL | SVO, EPA 8270 | 4,6-DINITRO-2-METHYLPHENOL | ND | 2 | mg/kg | |
| 93106100 | SL | SVO, EPA 8270 | 4-BROMOPHENYL PHENYL ETHER | ND | 0.3 | mg/kg | |
| 93106100 | SL | SVO, EPA 8270 | 4-CHLORO-3-METHYLPHENOL | ND | 0.3 | mg/kg | |
| 93106100 | SL | SVO, EPA 8270 | 4-CHLOROANILINE | ND | 0.3 | mg/kg | |
| 93106100 | SL | SVO, EPA 8270 | 4-CHLOROPHENYL PHENYL ETHER | ND | 0.3 | mg/kg | |
| 93106100 | SL | SVO, EPA 8270 | 4-METHYLPHENOL | ND | 0.3 | mg/kg | |
| 93106100 | SL | SVO, EPA 8270 | 4-NITROANILINE | ND | 2 | mg/kg | |
| 93106100 | SL | SVO, EPA 8270 | 4-NITROPHENOL | ND | 2 | mg/kg | |
| 93106100 | SL | SVO, EPA 8270 | ACENAPHTHENE | ND | 0.3 | mg/kg | |
| 93106100 | SL | SVO, EPA 8270 | ACENAPHTHYLENE | ND | 0.3 | mg/kg | |
| 93106100 | SL | SVO, EPA 8270 | ANILINE | ND | 1 | mg/kg | |
| 93106100 | SL | SVO, EPA 8270 | ANTHRACENE | ND | 0.3 | mg/kg | |
| 93106100 | SL | SVO, EPA 8270 | BENZO(A)ANTHRACENE | ND | 0.3 | mg/kg | |
| 93106100 | SL | SVO, EPA 8270 | BENZO(A)PYRENE | ND | 0.3 | mg/kg | |
| 93106100 | SL | SVO, EPA 8270 | BENZO(B)FLUORANTHENE | ND | 0.3 | mg/kg | |
| 93106100 | SL | SVO, EPA 8270 | BENZO(GHI)PERYLENE | ND | 0.3 | mg/kg | |
| 93106100 | SL | SVO, EPA 8270 | BENZO(K)FLUORANTHENE | ND | 0.3 | mg/kg | |
| 93106100 | SL | SVO, EPA 8270 | BENZOIC ACID | ND | 2 | mg/kg | |
| 93106100 | SL | SVO, EPA 8270 | BENZYL ALCOHOL | ND | 0.3 | mg/kg | |
| 93106100 | SL | SVO, EPA 8270 | BENZYL BUTYL PHTHALATE | ND | 0.3 | mg/kg | |
| 93106100 | SL | SVO, EPA 8270 | BIS(2-CHLOROETHOXY) METHANE | ND | 0.3 | mg/kg | |
| 93106100 | SL | SVO, EPA 8270 | BIS(2-CHLOROETHYL) ETHER | ND | 0.3 | mg/kg | |
| 93106100 | SL | SVO, EPA 8270 | BIS(2-CHLOROISOPROPYL) ETHER | ND | 0.3 | mg/kg | |
| 93106100 | SL | SVO, EPA 8270 | BIS(2-ETHYLHEXYL) PHTHALATE | ND | 0.3 | mg/kg | |
| 93106100 | SL | SVO, EPA 8270 | CHRYSENE | ND | 0.3 | mg/kg | |
| 93106100 | SL | SVO, EPA 8270 | DI-N-BUTYL PHTHALATE | ND | 0.3 | mg/kg | |
| 93106100 | SL | SVO, EPA 8270 | DI-N-OCTYL PHTHALATE | ND | 0.3 | mg/kg | |
| 93106100 | SL | SVO, EPA 8270 | DIBENZO(A,H)ANTHRACENE | ND | 0.3 | mg/kg | |
| 93106100 | SL | SVO, EPA 8270 | DIBENZOFURAN | ND | 0.3 | mg/kg | |
| 93106100 | SL | SVO, EPA 8270 | DIETHYL PHTHALATE | ND | 0.3 | mg/kg | |
| 93106100 | SL | SVO, EPA 8270 | DIMETHYL PHTHALATE | ND | 0.3 | mg/kg | |
| 93106100 | SL | SVO, EPA 8270 | FLUORANTHENE | ND | 0.3 | mg/kg | |
| 93106100 | SL | SVO, EPA 8270 | FLUORENE | ND | 0.3 | mg/kg | |
| 93106100 | SL | SVO, EPA 8270 | HEXACHLOROBENZENE | ND | 0.3 | mg/kg | |
| 93106100 | SL | SVO, EPA 8270 | HEXACHLOROBUTADIENE | ND | 0.3 | mg/kg | |
| 93106100 | SL | SVO, EPA 8270 | HEXACHLOROCYCLOPENTADIENE | ND | 0.3 | mg/kg | |
| 93106100 | SL | SVO, EPA 8270 | HEXACHLOROETHANE | ND | 0.3 | mg/kg | |
| 93106100 | SL | SVO, EPA 8270 | INDENO(1,2,3-CD)PYRENE | ND | 0.3 | mg/kg | |
| 93106100 | SL | SVO, EPA 8270 | ISOPHORONE | ND | 0.3 | mg/kg | |
| 93106100 | SL | SVO, EPA 8270 | N-NITROSO-DI-N-PROPYLAMINE | ND | 0.3 | mg/kg | |
| 93106100 | SL | SVO, EPA 8270 | N-NITROSODIMETHYLAMINE | ND | 2 | mg/kg | |
| 93106100 | SL | SVO, EPA 8270 | N-NITROSODIPHENYLAMINE | ND | 0.3 | mg/kg | |
| 93106100 | SL | SVO, EPA 8270 | NAPHTHALENE | ND | 0.3 | mg/kg | |
| 93106100 | SL | SVO, EPA 8270 | NITROBENZENE | ND | 0.3 | mg/kg | |
| 93106100 | SL | SVO, EPA 8270 | PENTACHLOROPHENOL | ND | 2 | mg/kg | |
| 93106100 | SL | SVO, EPA 8270 | PHENANTHRENE | ND | 0.3 | mg/kg | |
| 93106100 | SL | SVO, EPA 8270 | PHENOL | ND | 0.3 | mg/kg | |
| 93106100 | SL | SVO, EPA 8270 | PYRENE | ND | 0.3 | mg/kg | |

## 1993 Building 1565 Groundwater Field Survey Data

Source: HLA, July 1994
Phase II Site Investigation
Fort Wainwright, Alaska

# 1993 Building 1565 Groundwater Field Survey Data

| Sample Number | Method | Chemical | Det Conc | Det Limit | Units | Flags |
|---|---|---|---|---|---|---|
| FS1 | 601 | 1,1,1-Trichloroethane | ND | 0.2 | ug/L | |
| FS1 | 601 | Carbon tetrachloride | ND | 0.2 | ug/L | |
| FS1 | 601 | Chloroform | ND | 0.2 | ug/L | |
| FS1 | 601 | Methylene chloride | ND | 0.5 | ug/L | |
| FS1 | 601 | 1,1-Dichloroethane | ND | 0.2 | ug/L | |
| FS1 | 601 | 1,2 Dichloroethane | ND | 0.2 | ug/L | |
| FS1 | 601 | T-1,2-Dichloroethene | ND | 0.2 | ug/L | |
| FS1 | 601 | C-1,2-Dichloroethene | ND | 0.2 | ug/L | |
| FS1 | 601 | Trichloroethene | ND | 0.2. | ug/L | |
| FS1 | 601 | 1,1-Dichloroethene | ND | 0.2 | ug/L | |
| FS1 | 602 | Benzene | 0.4 | | ug/L | |
| FS1 | 602 | Ethyl Benzene | 2.4 | | ug/L | |
| FS1 | 602 | Toluene | 0.5 | | ug/L | |
| FS1 | 602 | Xylenes | 1.5 | | ug/L | |
| FS2 | 601 | 1,1,1-Trichloroethane | 0.4 | 0.2 | ug/L | |
| FS2 | 601 | Carbon tetrachloride | ND | 0.2 | ug/L | |
| FS2 | 601 | Chloroform | ND | 0.5 | ug/L | |
| FS2 | 601 | Methylene chloride | ND | 0.2 | ug/L | |
| FS2 | 601 | 1,1-Dichloroethane | ND | 0.2 | ug/L | |
| FS2 | 601 | 1,2 Dichloroethane | ND | 0.2 | ug/L | |
| FS2 | 601 | T-1,2-Dichloroethene | ND | 0.2 | ug/L | |
| FS2 | 601 | C-1,2-Dichloroethene | 0.3 | | ug/L | |
| FS2 | 601 | Trichloroethene | ND | 0.2 | ug/L | |
| FS2 | 601 | 1,1-Dichloroethene | ND | 0.2 | ug/L | |
| FS2 | 602 | Benzene | 7.3 | | ug/L | |
| FS2 | 602 | Ethyl Benzene | 0.3 | | ug/L | |
| FS2 | 602 | Toluene | 0.6 | | ug/L | |
| FS2 | 602 | Xylenes | 2.4 | | ug/L | |
| FS3 | 601 | 1,1,1-Trichloroethane | ND | 0.2 | ug/L | |
| FS3 | 601 | Carbon tetrachloride | ND | 0.2 | ug/L | |
| FS3 | 601 | Chloroform | ND | 0.2 | ug/L | |
| FS3 | 601 | Methylene chloride | ND | 0.5 | ug/L | |
| FS3 | 601 | 1,1-Dichloroethane | ND | 0.2 | ug/L | |
| FS3 | 601 | 1,2 Dichloroethane | ND | 0.2 | ug/L | |
| FS3 | 601 | T-1,2-Dichloroethene | ND | 0.2 | ug/L | |
| FS3 | 601 | C-1,2-Dichloroethene | 0.3 | | ug/L | |
| FS3 | 601 | Trichloroethene | ND | 0.2 | ug/L | |
| FS3 | 601 | 1,1-Dichloroethene | ND | 0.2 | ug/L | |
| FS3 | 602 | Benzene | 1 | | ug/L | |
| FS3 | 602 | Ethyl Benzene | 33 | | ug/L | |
| FS3 | 602 | Toluene | 0.4 | | ug/L | |
| FS3 | 602 | Xylenes | 78 | | ug/L | |
| FS3A* | 601 | 1,1,1-Trichloroethane | ND | 0.2 | ug/L | |
| FS3A* | 601 | Carbon tetrachloride | ND | 0.2 | ug/L | |
| FS3A* | 601 | Chloroform | ND | 0.2 | ug/L | |
| FS3A* | 601 | Methylene chloride | ND | 0.5 | ug/L | |
| FS3A* | 601 | 1,1-Dichloroethane | ND | 0.2 | ug/L | |
| FS3A* | 601 | 1,2 Dichloroethane | ND | 0.2 | ug/L | |
| FS3A* | 601 | T-1,2-Dichloroethene | ND | 0.2 | ug/L | |
| FS3A* | 601 | C-1,2-Dichloroethene | 0.3 | | ug/L | |
| FS3A* | 601 | Trichloroethene | ND | 0.2 | ug/L | |
| FS3A* | 601 | 1,1-Dichloroethene | ND | 0.2 | ug/L | |
| FS3A* | 602 | Benzene | 1.4 | | ug/L | |
| FS3A* | 602 | Ethyl Benzene | 36 | | ug/L | |
| FS3A* | 602 | Toluene | 0.5 | | ug/L | |
| FS3A* | 602 | Xylenes | 94 | | ug/L | |
| FS4 | 601 | 1,1,1-Trichloroethane | 7.8 | | ug/L | |
| FS4 | 601 | Carbon tetrachloride | ND | 0.2 | ug/L | |
| FS4 | 601 | Chloroform | ND | 0.2 | ug/L | |
| FS4 | 601 | Methylene chloride | ND | 0.5 | ug/L | |
| FS4 | 601 | 1,1-Dichloroethane | ND | 0.2 | ug/L | |
| FS4 | 601 | 1,2 Dichloroethane | ND | 0.2 | ug/L | |
| FS4 | 601 | T-1,2-Dichloroethene | 2.3 | | ug/L | |

# 1993 Building 1565 Groundwater Field Survey Data

| Sample Number | Method | Chemical | Det Conc | Det Limit | Units | Flags |
|---|---|---|---|---|---|---|
| FS4 | 601 | C-1,2-Dichloroethene | 2 | | ug/L | |
| FS4 | 601 | Trichloroethene | 0.7 | | ug/L | |
| FS4 | 601 | 1,1-Dichloroethene | ND | 0.2 | ug/L | |
| FS4 | 602 | Benzene | 0.5 | | ug/L | |
| FS4 | 602 | Ethyl Benzene | 0.4 | | ug/L | |
| FS4 | 602 | Toluene | ND | 0.03 | ug/L | |
| FS4 | 602 | Xylenes | 0.6 | | ug/L | |
| FS5 | 601 | 1,1,1-Trichloroethane | 380 | 0.2 | ug/L | |
| | 601 | Carbon tetrachloride | ND | | ug/L | |
| | 601 | Chloroform | 0.9 | 0.5 | ug/L | |
| | 601 | Methylene chloride | ND | 0.2 | ug/L | |
| | 601 | 1,1-Dichloroethane | ND | | ug/L | |
| | 601 | 1,2 Dichloroethane | 0.5 | | ug/L | |
| | 601 | T-1,2-Dichloroethene | 0.6 | | ug/L | |
| | 601 | C-1,2-Dichloroethene | 1 | | ug/L | |
| | 601 | Trichloroethene | ND | 0.2 | ug/L | |
| | 601 | 1,1-Dichloroethene | 26 | | ug/L | |
| | 602 | Benzene | 2.5 | | ug/L | |
| | 602 | Ethyl Benzene | ND | 0.2 | ug/L | |
| | 602 | Toluene | 0.2 | | ug/L | |
| | 602 | Xylenes | ND | 0.4 | ug/L | |
| FS6 | 601 | 1,1,1-Trichloroethane | 24 | | ug/L | |
| | 601 | Carbon tetrachloride | ND | 0.2 | ug/L | |
| | 601 | Chloroform | ND | 0.2 | ug/L | |
| | 601 | Methylene chloride | ND | 0.5 | ug/L | |
| | 601 | 1,1-Dichloroethane | 3 | | ug/L | |
| | 601 | 1,2 Dichloroethane | ND | 0.2 | ug/L | |
| | 601 | T-1,2-Dichloroethene | ND | 0.2 | ug/L | |
| | 601 | C-1,2-Dichloroethene | 0.6 | | ug/L | |
| | 601 | Trichloroethene | ND | 0.2 | ug/L | |
| | 601 | 1,1-Dichloroethene | ND | 0.2 | ug/L | |
| | 602 | Benzene | 1.5 | | ug/L | |
| | 602 | Ethyl Benzene | ND | 0.2 | ug/L | |
| | 602 | Toluene | 0.4 | | ug/L | |
| | 602 | Xylenes | ND | 0.4 | ug/L | |
| FS7 | 601 | 1,1,1-Trichloroethane | 4.3 | | ug/L | |
| | 601 | Carbon tetrachloride | ND | 0.2 | ug/L | |
| | 601 | Chloroform | ND | 0.2 | ug/L | |
| | 601 | Methylene chloride | ND | 0.5 | ug/L | |
| | 601 | 1,1-Dichloroethane | 3.5 | | ug/L | |
| | 601 | 1,2 Dichloroethane | ND | 0.2 | ug/L | |
| | 601 | T-1,2-Dichloroethene | ND | 0.2 | ug/L | |
| | 601 | C-1,2-Dichloroethene | 0.3 | | ug/L | |
| | 601 | Trichloroethene | ND | 0.2 | ug/L | |
| | 601 | 1,1-Dichloroethene | ND | 0.2 | ug/L | |
| | 602 | Benzene | 2.8 | | ug/L | |
| | 602 | Ethyl Benzene | 0.4 | | ug/L | |
| | 602 | Toluene | ND | 0.03 | ug/L | |
| | 602 | Xylenes | 12 | | ug/L | |
| FS7A* | 601 | 1,1,1-Trichloroethane | 4.7 | | ug/L | |
| | 601 | Carbon tetrachloride | ND | 0.2 | ug/L | |
| | 601 | Chloroform | ND | 0.2 | ug/L | |
| | 601 | Methylene chloride | ND | 0.5 | ug/L | |
| | 601 | 1,1-Dichloroethane | ND | 0.2 | ug/L | |
| | 601 | 1,2 Dichloroethane | ND | 0.2 | ug/L | |
| | 601 | T-1,2-Dichloroethene | ND | 0.2 | ug/L | |
| | 601 | C-1,2-Dichloroethene | ND | 0.2 | ug/L | |
| | 601 | Trichloroethene | ND | 0.2 | ug/L | |
| | 601 | 1,1-Dichloroethene | 3.4 | | ug/L | |
| | 602 | Benzene | 2.7 | | ug/L | |
| | 602 | Ethyl Benzene | 0.4 | | ug/L | |
| | 602 | Toluene | ND | 0.03 | ug/L | |
| | 602 | Xylenes | 12 | | ug/L | |

# 1993 Building 1565 Groundwater Field Survey Data

| Sample Number | Method | Chemical | Det Conc | Det Limit | Units | Flags |
|---|---|---|---|---|---|---|
| FS8 | 601 | 1,1,1-Trichloroethane | ND | 0.2 | ug/L | |
| | 601 | Carbon tetrachloride | ND | 0.2 | ug/L | |
| | 601 | Chloroform | ND | 0.2 | ug/L | |
| | 601 | Methylene chloride | ND | 0.5 | ug/L | |
| | 601 | 1,1-Dichloroethane | ND | 0.2 | ug/L | |
| | 601 | 1,2 Dichloroethane | ND | 0.2 | ug/L | |
| | 601 | T-1,2-Dichloroethene | ND | 0.2 | ug/L | |
| | 601 | C-1,2-Dichloroethene | 0.2 | | ug/L | |
| | 601 | Trichloroethene | ND | 0.2 | ug/L | |
| | 601 | 1,1-Dichloroethene | 0.2 | | ug/L | |
| | 602 | Benzene | ND | 0.2 | ug/L | |
| | 602 | Ethyl Benzene | ND | 0.2 | ug/L | |
| | 602 | Toluene | ND | 0.03 | ug/L | |
| | 602 | Xylenes | ND | 0.4 | ug/L | |
| FS9 | 601 | 1,1,1-Trichloroethane | ND | 0.2 | ug/L | |
| | 601 | Carbon tetrachloride | ND | 0.2 | ug/L | |
| | 601 | Chloroform | ND | 0.2 | ug/L | |
| | 601 | Methylene chloride | ND | 0.5 | ug/L | |
| | 601 | 1,1-Dichloroethane | ND | 0.2 | ug/L | |
| | 601 | 1,2 Dichloroethane | ND | 0.2.0.2. | ug/L | |
| | 601 | T-1,2-Dichloroethene | ND | 0.2 | ug/L | |
| | 601 | C-1,2-Dichloroethene | 0.3 | | ug/L | |
| | 601 | Trichloroethene | ND | 0.2 | ug/L | |
| | 601 | 1,1-Dichloroethene | ND | 0.2 | ug/L | |
| | 602 | Benzene | ND | 0.2 | ug/L | |
| | 602 | Ethyl Benzene | ND | 0.2 | ug/L | |
| | 602 | Toluene | ND | 0.03 | ug/L | |
| | 602 | Xylenes | ND | 0.4 | ug/L | |
| FS10 | 601 | 1,1,1-Trichloroethane | ND | 0.2 | ug/L | |
| | 601 | Carbon tetrachloride | 0.4 | | ug/L | |
| | 601 | Chloroform | ND | 0.2 | ug/L | |
| | 601 | Methylene chloride | ND | 0.5 | ug/L | |
| | 601 | 1,1-Dichloroethane | ND | 0.2 | ug/L | |
| | 601 | 1,2 Dichloroethane | ND | 0.2 | ug/L | |
| | 601 | T-1,2-Dichloroethene | ND | 0.2 | ug/L | |
| | 601 | C-1,2-Dichloroethene | 0.2 | | ug/L | |
| | 601 | Trichloroethene | ND | 0.2 | ug/L | |
| | 601 | 1,1-Dichloroethene | ND | 0.2 | ug/L | |
| | 602 | Benzene | ND | 0.2 | ug/L | |
| | 602 | Ethyl Benzene | ND | 0.2 | ug/L | |
| | 602 | Toluene | 0.5 | | ug/L | |
| | 602 | Xylenes | ND | 0.4 | ug/L | |
| FS11 | 601 | 1,1,1-Trichloroethane | ND | 0.2 | ug/L | |
| | 601 | Carbon tetrachloride | ND | 0.2 | ug/L | |
| | 601 | Chloroform | ND | 0.2 | ug/L | |
| | 601 | Methylene chloride | ND | 0.5 | ug/L | |
| | 601 | 1,1-Dichloroethane | ND | 0.2 | ug/L | |
| | 601 | 1,2 Dichloroethane | ND | 0.2 | ug/L | |
| | 601 | T-1,2-Dichloroethene | ND | 0.2 | ug/L | |
| | 601 | C-1,2-Dichloroethene | ND | 0.2 | ug/L | |
| | 601 | Trichloroethene | ND | 0.2 | ug/L | |
| | 601 | 1,1-Dichloroethene | ND | 0.2 | ug/L | |
| | 602 | Benzene | 0.2 | | ug/L | |
| | 602 | Ethyl Benzene | ND | 0.2 | ug/L | |
| | 602 | Toluene | 0.5 | | ug/L | |
| | 602 | Xylenes | ND | 0.4 | ug/L | |
| FS12 | 601 | 1,1,1-Trichloroethane | ND | 0.2 | ug/L | |
| | 601 | Carbon tetrachloride | ND | 0.2 | ug/L | |
| | 601 | Chloroform | ND | 0.2 | ug/L | |
| | 601 | Methylene chloride | ND | 0.5 | ug/L | |
| | 601 | 1,1-Dichloroethane | ND | 0.2 | ug/L | |
| | 601 | 1,2 Dichloroethane | ND | 0.2 | ug/L | |
| | 601 | T-1,2-Dichloroethene | ND | 0.2 | ug/L | |

# 1993 Building 1565 Groundwater Field Survey Data

| Sample Number | Method | Chemical | Det Conc | Det Limit | Units | Flags |
|---|---|---|---|---|---|---|
| | 601 | C-1,2-Dichloroethene | ND | 0.2 | ug/L | |
| | 601 | Trichloroethene | ND | 0.2 | ug/L | |
| | 601 | 1,1-Dichloroethene | ND | 0.2 | ug/L | |
| | 602 | Benzene | ND | 0.2 | ug/L | |
| | 602 | Ethyl Benzene | ND | 0.2 | ug/L | |
| | 602 | Toluene | ND | 0.03 | ug/L | |
| | 602 | Xylenes | ND | 0.4 | ug/L | |
| FS13 | 601 | 1,1,1-Trichloroethane | ND | 0.2 | ug/L | |
| | 601 | Carbon tetrachloride | ND | 0.2 | ug/L | |
| | 601 | Chloroform | ND | 0.2 | ug/L | |
| | 601 | Methylene chloride | ND | 0.5 | ug/L | |
| | 601 | 1,1-Dichloroethane | ND | 0.2 | ug/L | |
| | 601 | 1,2 Dichloroethane | ND | 0.2 | ug/L | |
| | 601 | T-1,2-Dichloroethene | ND | 0.2 | ug/L | |
| | 601 | C-1,2-Dichloroethene | 0.3 | | ug/L | |
| | 601 | Trichloroethene | ND | 0.2 | ug/L | |
| | 601 | 1,1-Dichloroethene | ND | 0.2 | ug/L | |
| | 602 | Benzene | ND | 0.2 | ug/L | |
| | 602 | Ethyl Benzene | ND | 0.2 | ug/L | |
| | 602 | Toluene | ND | 0.03 | ug/L | |
| | 602 | Xylenes | ND | 0.4 | ug/L | |
| FS14 | 601 | 1,1,1-Trichloroethane | ND | 0.2 | ug/L | |
| | 601 | Carbon tetrachloride | ND | 0.2 | ug/L | |
| | 601 | Chloroform | ND | 0.2 | ug/L | |
| | 601 | Methylene chloride | ND | 0.5 | ug/L | |
| | 601 | 1,1-Dichloroethane | ND | 0.2 | ug/L | |
| | 601 | 1,2 Dichloroethane | ND | 0.2 | ug/L | |
| | 601 | T-1,2-Dichloroethene | ND | 0.2 | ug/L | |
| | 601 | C-1,2-Dichloroethene | ND | 0.2 | ug/L | |
| | 601 | Trichloroethene | ND | 0.2 | ug/L | |
| | 601 | 1,1-Dichloroethene | ND | 0.2 | ug/L | |
| | 602 | Benzene | ND | 0.2 | ug/L | |
| | 602 | Ethyl Benzene | ND | 0.2 | ug/L | |
| | 602 | Toluene | ND | 0.03 | ug/L | |
| | 602 | Xylenes | ND | 0.4 | ug/L | |
| FS15 | 601 | 1,1,1-Trichloroethane | ND | 0.2 | ug/L | |
| | 601 | Carbon tetrachloride | 0.2 | | ug/L | |
| | 601 | Chloroform | ND | 0.2 | ug/L | |
| | 601 | Methylene chloride | ND | 0.5 | ug/L | |
| | 601 | 1,1-Dichloroethane | ND | 0.2 | ug/L | |
| | 601 | 1,2 Dichloroethane | ND | 0.2 | ug/L | |
| | 601 | T-1,2-Dichloroethene | ND | 0.2 | ug/L | |
| | 601 | C-1,2-Dichloroethene | ND | 0.2 | ug/L | |
| | 601 | Trichloroethene | ND | 0.2 | ug/L | |
| | 601 | 1,1-Dichloroethene | ND | 0.2 | ug/L | |
| | 602 | Benzene | ND | 0.2 | ug/L | |
| | 602 | Ethyl Benzene | ND | 0.2 | ug/L | |
| | 602 | Toluene | ND | 0.03 | ug/L | |
| | 602 | Xylenes | ND | 0.4 | ug/L | |
| FS16 | 601 | 1,1,1-Trichloroethane | ND | 0.2 | ug/L | |
| | 601 | Carbon tetrachloride | 0.2 | | ug/L | |
| | 601 | Chloroform | ND | 0.2 | ug/L | |
| | 601 | Methylene chloride | ND | 0.5 | ug/L | |
| | 601 | 1,1-Dichloroethane | ND | 0.2 | ug/L | |
| | 601 | 1,2 Dichloroethane | ND | 0.2 | ug/L | |
| | 601 | T-1,2-Dichloroethene | ND | 0.2 | ug/L | |
| | 601 | C-1,2-Dichloroethene | ND | 0.2 | ug/L | |
| | 601 | Trichloroethene | ND | 0.2 | ug/L | |
| | 601 | 1,1-Dichloroethene | ND | 0.2 | ug/L | |
| | 602 | Benzene | ND | 0.2 | ug/L | |
| | 602 | Ethyl Benzene | ND | 0.2 | ug/L | |
| | 602 | Toluene | ND | 0.03 | ug/L | |
| | 602 | Xylenes | ND | 0.4 | ug/L | |

# 1993 Building 1565 Groundwater Field Survey Data

| Sample Number | Method | Chemical | Det Conc | Det Limit | Units | Flags |
|---|---|---|---|---|---|---|
| FS17 | 601 | 1,1,1-Trichloroethane | ND | 0.2 | ug/L | |
| | 601 | Carbon tetrachloride | ND | 0.2 | ug/L | |
| | 601 | Chloroform | ND | 0.2 | ug/L | |
| | 601 | Methylene chloride | ND | 0.5 | ug/L | |
| | 601 | 1,1-Dichloroethane | ND | 0.2 | ug/L | |
| | 601 | 1,2 Dichloroethane | ND | 0.2 | ug/L | |
| | 601 | T-1,2-Dichloroethene | ND | 0.2 | ug/L | |
| | 601 | C-1,2-Dichloroethene | 0.5 | | ug/L | |
| | 601 | Trichloroethene | ND | 0.2 | ug/L | |
| | 601 | 1,1-Dichloroethene | ND | 0.2 | ug/L | |
| | 602 | Benzene | ND | 0.2 | ug/L | |
| | 602 | Ethyl Benzene | ND | 0.2 | ug/L | |
| | 602 | Toluene | ND | 0.03 | ug/L | |
| | 602 | Xylenes | ND | 0.4 | ug/L | |
| FS18 | 601 | 1,1,1-Trichloroethane | ND | 0.2 | ug/L | |
| | 601 | Carbon tetrachloride | 0.2 | | ug/L | |
| | 601 | Chloroform | ND | 0.2 | ug/L | |
| | 601 | Methylene chloride | ND | 0.5 | ug/L | |
| | 601 | 1,1-Dichloroethane | ND | 0.2 | ug/L | |
| | 601 | 1,2 Dichloroethane | ND | 0.2 | ug/L | |
| | 601 | T-1,2-Dichloroethene | ND | 0.2 | ug/L | |
| | 601 | C-1,2-Dichloroethene | ND | 0.2 | ug/L | |
| | 601 | Trichloroethene | ND | 0.2 | ug/L | |
| | 601 | 1,1-Dichloroethene | ND | 0.2 | ug/L | |
| | 602 | Benzene | 0.3 | | ug/L | |
| | 602 | Ethyl Benzene | ND | 0.2 | ug/L | |
| | 602 | Toluene | ND | 0.03 | ug/L | |
| | 602 | Xylenes | ND | 0.4 | ug/L | |
| FS19 | 601 | 1,1,1-Trichloroethane | ND | 0.2 | ug/L | |
| | 601 | Carbon tetrachloride | ND | 0.2 | ug/L | |
| | 601 | Chloroform | ND | 0.2 | ug/L | |
| | 601 | Methylene chloride | ND | 0.5 | ug/L | |
| | 601 | 1,1-Dichloroethane | ND | 0.2 | ug/L | |
| | 601 | 1,2 Dichloroethane | ND | 0.2 | ug/L | |
| | 601 | T-1,2-Dichloroethene | ND | 0.2 | ug/L | |
| | 601 | C-1,2-Dichloroethene | ND | 0.2 | ug/L | |
| | 601 | Trichloroethene | ND | 0.2 | ug/L | |
| | 601 | 1,1-Dichloroethene | ND | 0.2 | ug/L | |
| | 602 | Benzene | ND | 0.2 | ug/L | |
| | 602 | Ethyl Benzene | 160 | | ug/L | |
| | 602 | Toluene | 5 | | ug/L | |
| | 602 | Xylenes | 1000 | | ug/L | |
| FS20 | 601 | 1,1,1-Trichloroethane | ND | 0.2 | ug/L | |
| | 601 | Carbon tetrachloride | ND | 0.2 | ug/L | |
| | 601 | Chloroform | ND | 0.2 | ug/L | |
| | 601 | Methylene chloride | ND | 0.5 | ug/L | |
| | 601 | 1,1-Dichloroethane | ND | 0.2 | ug/L | |
| | 601 | 1,2 Dichloroethane | ND | 0.2 | ug/L | |
| | 601 | T-1,2-Dichloroethene | 2.9 | | ug/L | |
| | 601 | C-1,2-Dichloroethene | 2.2 | | ug/L | |
| | 601 | Trichloroethene | 0.3 | | ug/L | |
| | 601 | 1,1-Dichloroethene | ND | 0.2 | ug/L | |
| | 602 | Benzene | 1.2 | | ug/L | |
| | 602 | Ethyl Benzene | ND | 0.2 | ug/L | |
| | 602 | Toluene | 0.4 | | ug/L | |
| | 602 | Xylenes | ND | 0.4 | ug/L | |
| FS21 | 601 | 1,1,1-Trichloroethane | ND | 0.2 | ug/L | |
| | 601 | Carbon tetrachloride | ND | 0.2 | ug/L | |
| | 601 | Chloroform | ND | 0.2 | ug/L | |
| | 601 | Methylene chloride | ND | 0.5 | ug/L | |
| | 601 | 1,1-Dichloroethane | ND | 0.2 | ug/L | |
| | 601 | 1,2 Dichloroethane | ND | 0.2 | ug/L | |
| | 601 | T-1,2-Dichloroethene | 0.6 | | ug/L | |

# 1993 Building 1565 Groundwater Field Survey Data

| Sample Number | Method | Chemical | Det Conc | Det Limit | Units | Flags |
|---|---|---|---|---|---|---|
| | 601 | C-1,2-Dichloroethene | 0.5 | | ug/L | |
| | 601 | Trichloroethene | ND | 0.2 | ug/L | |
| | 601 | 1,1-Dichloroethene | ND | 0.2 | ug/L | |
| | 602 | Benzene | 0.8 | | ug/L | |
| | 602 | Ethyl Benzene | ND | 0.2 | ug/L | |
| | 602 | Toluene | 0.4 | | ug/L | |
| | 602 | Xylenes | ND | 0.4 | ug/L | |
| FS21A* | 601 | 1,1,1-Trichloroethane | ND | 0.2 | ug/L | |
| | 601 | Carbon tetrachloride | ND | 0.2 | ug/L | |
| | 601 | Chloroform | ND | 0.2 | ug/L | |
| | 601 | Methylene chloride | ND | 0.5 | ug/L | |
| | 601 | 1,1-Dichloroethane | ND | 0.2 | ug/L | |
| | 601 | 1,2 Dichloroethane | ND | 0.2 | ug/L | |
| | 601 | T-1,2-Dichloroethene | 0.6 | | ug/L | |
| | 601 | C-1,2-Dichloroethene | 0.5 | | ug/L | |
| | 601 | Trichloroethene | ND | 0.2 | ug/L | |
| | 601 | 1,1-Dichloroethene | ND | 0.2 | ug/L | |
| | 602 | Benzene | 0.7 | | ug/L | |
| | 602 | Ethyl Benzene | ND | 0.2 | ug/L | |
| | 602 | Toluene | 0.4 | | ug/L | |
| | 602 | Xylenes | ND | 0.4 | ug/L | |
| FS22 | 601 | 1,1,1-Trichloroethane | ND | 0.2 | ug/L | |
| | 601 | Carbon tetrachloride | ND | 0.2 | ug/L | |
| | 601 | Chloroform | ND | 0.2 | ug/L | |
| | 601 | Methylene chloride | ND | 0.5 | ug/L | |
| | 601 | 1,1-Dichloroethane | ND | 0.2 | ug/L | |
| | 601 | 1,2 Dichloroethane | ND | 0.2 | ug/L | |
| | 601 | T-1,2-Dichloroethene | 0.3 | | ug/L | |
| | 601 | C-1,2-Dichloroethene | 0.4 | | ug/L | |
| | 601 | Trichloroethene | ND | 0.2 | ug/L | |
| | 601 | 1,1-Dichloroethene | ND | 0.2 | ug/L | |
| | 602 | Benzene | 0.3 | | ug/L | |
| | 602 | Ethyl Benzene | ND | 0.2 | ug/L | |
| | 602 | Toluene | ND | 0.03 | ug/L | |
| | 602 | Xylenes | ND | 0.4 | ug/L | |
| FS23 | 601 | 1,1,1-Trichloroethane | ND | 0.2 | ug/L | |
| | 601 | Carbon tetrachloride | ND | 0.2 | ug/L | |
| | 601 | Chloroform | ND | 0.2 | ug/L | |
| | 601 | Methylene chloride | ND | 0.5 | ug/L | |
| | 601 | 1,1-Dichloroethane | ND | 0.2 | ug/L | |
| | 601 | 1,2 Dichloroethane | ND | 0.2 | ug/L | |
| | 601 | T-1,2-Dichloroethene | ND | 0.2 | ug/L | |
| | 601 | C-1,2-Dichloroethene | 0.2 | | ug/L | |
| | 601 | Trichloroethene | ND | 0.2 | ug/L | |
| | 601 | 1,1-Dichloroethene | ND | 0.2 | ug/L | |
| | 602 | Benzene | ND | 0.2 | ug/L | |
| | 602 | Ethyl Benzene | ND | 0.2 | ug/L | |
| | 602 | Toluene | ND | 0.03 | ug/L | |
| | 602 | Xylenes | ND | 0.4 | ug/L | |
| FS24 | 601 | 1,1,1-Trichloroethane | ND | 0.2 | ug/L | |
| | 601 | Carbon tetrachloride | ND | 0.2 | ug/L | |
| | 601 | Chloroform | ND | 0.2 | ug/L | |
| | 601 | Methylene chloride | ND | 0.5 | ug/L | |
| | 601 | 1,1-Dichloroethane | ND | 0.2 | ug/L | |
| | 601 | 1,2 Dichloroethane | ND | 0.2 | ug/L | |
| | 601 | T-1,2-Dichloroethene | ND | 0.2 | ug/L | |
| | 601 | C-1,2-Dichloroethene | 0.2 | 0.2 | ug/L | |
| | 601 | Trichloroethene | ND | 0.2 | ug/L | |
| | 601 | 1,1-Dichloroethene | ND | 0.2 | ug/L | |
| | 602 | Benzene | ND | 0.2 | ug/L | |
| | 602 | Ethyl Benzene | ND | 0.2 | ug/L | |
| | 602 | Toluene | ND | 0.03 | ug/L | |
| | 602 | Xylenes | ND | 0.4 | ug/L | |

# 1993 Building 1565 Groundwater Field Survey Data

| Sample Number | Method | Chemical | Det Conc | Det Limit | Units | Flags |
|---|---|---|---|---|---|---|
| FS25 | 601 | 1,1,1-Trichloroethane | ND | 0.2 | ug/L | |
| | 601 | Carbon tetrachloride | ND | 0.2 | ug/L | |
| | 601 | Chloroform | ND | 0.2 | ug/L | |
| | 601 | Methylene chloride | ND | 0.5 | ug/L | |
| | 601 | 1,1-Dichloroethane | ND | 0.2 | ug/L | |
| | 601 | 1,2 Dichloroethane | ND | 0.2 | ug/L | |
| | 601 | T-1,2-Dichloroethene | ND | 0.2 | ug/L | |
| | 601 | C-1,2-Dichloroethene | 0.3 | | ug/L | |
| | 601 | Trichloroethene | ND | 0.2 | ug/L | |
| | 601 | 1,1-Dichloroethene | ND | 0.2 | ug/L | |
| | 602 | Benzene | 0.2 | | ug/L | |
| | 602 | Ethyl Benzene | ND | 0.2 | ug/L | |
| | 602 | Toluene | 0.4 | | ug/L | |
| | 602 | Xylenes | ND | 0.4 | ug/L | |
| FS26 | 601 | 1,1,1-Trichloroethane | 0.2 | | ug/L | |
| | 601 | Carbon tetrachloride | ND | 0.2 | ug/L | |
| | 601 | Chloroform | ND | 0.2 | ug/L | |
| | 601 | Methylene chloride | ND | 0.5 | ug/L | |
| | 601 | 1,1-Dichloroethane | 1.1 | | ug/L | |
| | 601 | 1,2 Dichloroethane | ND | 0.2 | ug/L | |
| | 601 | T-1,2-Dichloroethene | 0.3 | | ug/L | |
| | 601 | C-1,2-Dichloroethene | 0.4 | | ug/L | |
| | 601 | Trichloroethene | ND | 0.2 | ug/L | |
| | 601 | 1,1-Dichloroethene | ND | 0.2 | ug/L | |
| | 602 | Benzene | 0.5 | | ug/L | |
| | 602 | Ethyl Benzene | ND | 0.2 | ug/L | |
| | 602 | Toluene | ND | 0.03 | ug/L | |
| | 602 | Xylenes | ND | 0.4 | ug/L | |
| FS27 | 601 | 1,1,1-Trichloroethane | 0.4 | | ug/L | |
| | 601 | Carbon tetrachloride | ND | 0.2 | ug/L | |
| | 601 | Chloroform | ND | 0.2 | ug/L | |
| | 601 | Methylene chloride | ND | 0.5 | ug/L | |
| | 601 | 1,1-Dichloroethane | 1.4 | | ug/L | |
| | 601 | 1,2 Dichloroethane | ND | 0.2 | ug/L | |
| | 601 | T-1,2-Dichloroethene | ND | 0.2 | ug/L | |
| | 601 | C-1,2-Dichloroethene | 0.3 | | ug/L | |
| | 601 | Trichloroethene | ND | 0.2 | ug/L | |
| | 601 | 1,1-Dichloroethene | ND | 0.2 | ug/L | |
| | 602 | Benzene | 0.5 | | ug/L | |
| | 602 | Ethyl Benzene | ND | 0.2 | ug/L | |
| | 602 | Toluene | 0.6 | | ug/L | |
| | 602 | Xylenes | ND | 0.4 | ug/L | |
| FS28 | 601 | 1,1,1-Trichloroethane | 0.8 | | ug/L | |
| | 601 | Carbon tetrachloride | ND | 0.2 | ug/L | |
| | 601 | Chloroform | ND | 0.2 | ug/L | |
| | 601 | Methylene chloride | ND | 0.5 | ug/L | |
| | 601 | 1,1-Dichloroethane | 0.5 | | ug/L | |
| | 601 | 1,2 Dichloroethane | ND | 0.2 | ug/L | |
| | 601 | T-1,2-Dichloroethene | 1.4 | | ug/L | |
| | 601 | C-1,2-Dichloroethene | 1.6 | | ug/L | |
| | 601 | Trichloroethene | 0.7 | | ug/L | |
| | 601 | 1,1-Dichloroethene | ND | 0.2 | ug/L | |
| | 602 | Benzene | 0.4 | | ug/L | |
| | 602 | Ethyl Benzene | ND | 0.2 | ug/L | |
| | 602 | Toluene | 0.6 | | ug/L | |
| | 602 | Xylenes | ND | 0.4 | ug/L | |
| FS29 | 601 | 1,1,1-Trichloroethane | 3.1 | | ug/L | |
| | 601 | Carbon tetrachloride | ND | 0.2 | ug/L | |
| | 601 | Chloroform | ND | 0.2 | ug/L | |
| | 601 | Methylene chloride | 32 | | ug/L | |
| | 601 | 1,1-Dichloroethane | 2.4 | | ug/L | |
| | 601 | 1,2 Dichloroethane | ND | 0.2 | ug/L | |
| | 601 | T-1,2-Dichloroethene | 3.1 | | ug/L | |

# 1993 Building 1565 Groundwater Field Survey Data

| Sample Number | Method | Chemical | Det Conc | Det Limit | Units | Flags |
|---|---|---|---|---|---|---|
| | 601 | C-1,2-Dichloroethene | 3 | | ug/L | |
| | 601 | Trichloroethene | 1.4 | | ug/L | |
| | 601 | 1,1-Dichloroethene | ND | 0.2 | ug/L | |
| | 602 | Benzene | 1.1 | | ug/L | |
| | 602 | Ethyl Benzene | ND | 0.2 | ug/L | |
| | 602 | Toluene | ND | 0.03 | ug/L | |
| | 602 | Xylenes | ND | 0.4 | ug/L | |
| FS30 | 601 | 1,1,1-Trichloroethane | ND | 0.2 | ug/L | |
| | 601 | Carbon tetrachloride | ND | 0.2 | ug/L | |
| | 601 | Chloroform | ND | 0.2 | ug/L | |
| | 601 | Methylene chloride | ND | 0.5 | ug/L | |
| | 601 | 1,1-Dichloroethane | ND | 0.2 | ug/L | |
| | 601 | 1,2 Dichloroethane | ND | 0.2 | ug/L | |
| | 601 | T-1,2-Dichloroethene | 3 | | ug/L | |
| | 601 | C-1,2-Dichloroethene | 2.5 | | ug/L | |
| | 601 | Trichloroethene | 0.3 | | ug/L | |
| | 601 | 1,1-Dichloroethene | ND | 0.2 | ug/L | |
| | 602 | Benzene | 1.4 | | ug/L | |
| | 602 | Ethyl Benzene | ND | 0.2 | ug/L | |
| | 602 | Toluene | 0.4 | | ug/L | |
| | 602 | Xylenes | ND | 0.4 | ug/L | |
| FS31 | 601 | 1,1,1-Trichloroethane | ND | 0.2 | ug/L | |
| | 601 | Carbon tetrachloride | ND | 0.2 | ug/L | |
| | 601 | Chloroform | ND | 0.2 | ug/L | |
| | 601 | Methylene chloride | ND | 0.5 | ug/L | |
| | 601 | 1,1-Dichloroethane | ND | 0.2 | ug/L | |
| | 601 | 1,2 Dichloroethane | ND | 0.2 | ug/L | |
| | 601 | T-1,2-Dichloroethene | ND | 0.2 | ug/L | |
| | 601 | C-1,2-Dichloroethene | 0.4 | | ug/L | |
| | 601 | Trichloroethene | ND | 0.2 | ug/L | |
| | 601 | 1,1-Dichloroethene | ND | 0.2 | ug/L | |
| | 602 | Benzene | 0.2 | | ug/L | |
| | 602 | Ethyl Benzene | ND | 0.2 | ug/L | |
| | 602 | Toluene | 0.4 | | ug/L | |
| | 602 | Xylenes | ND | 0.4 | ug/L | |
| FS31A* | 601 | 1,1,1-Trichloroethane | ND | 0.2 | ug/L | |
| | 601 | Carbon tetrachloride | ND | 0.2 | ug/L | |
| | 601 | Chloroform | ND | 0.2 | ug/L | |
| | 601 | Methylene chloride | ND | 0.5 | ug/L | |
| | 601 | 1,1-Dichloroethane | ND | 0.2 | ug/L | |
| | 601 | 1,2 Dichloroethane | ND | 0.2 | ug/L | |
| | 601 | T-1,2-Dichloroethene | ND | 0.2 | ug/L | |
| | 601 | C-1,2-Dichloroethene | 0.3 | | ug/L | |
| | 601 | Trichloroethene | ND | 0.2 | ug/L | |
| | 601 | 1,1-Dichloroethene | ND | 0.2 | ug/L | |
| | 602 | Benzene | 0.3 | | ug/L | |
| | 602 | Ethyl Benzene | ND | 0.2 | ug/L | |
| | 602 | Toluene | 0.5 | | ug/L | |
| | 602 | Xylenes | ND | 0.4 | ug/L | |
| FS32 | 601 | 1,1,1-Trichloroethane | ND | 0.2 | ug/L | |
| | 601 | Carbon tetrachloride | ND | 0.2 | ug/L | |
| | 601 | Chloroform | 0.6 | | ug/L | |
| | 601 | Methylene chloride | ND | 0.5 | ug/L | |
| | 601 | 1,1-Dichloroethane | ND | 0.2 | ug/L | |
| | 601 | 1,2 Dichloroethane | ND | 0.2 | ug/L | |
| | 601 | T-1,2-Dichloroethene | ND | 0.2 | ug/L | |
| | 601 | C-1,2-Dichloroethene | ND | 0.2 | ug/L | |
| | 601 | Trichloroethene | ND | 0.2 | ug/L | |
| | 601 | 1,1-Dichloroethene | ND | 0.2 | ug/L | |
| | 602 | Benzene | ND | 0.2 | ug/L | |
| | 602 | Ethyl Benzene | ND | 0.2 | ug/L | |
| | 602 | Toluene | 0.5 | | ug/L | |
| | 602 | Xylenes | ND | 0.4 | ug/L | |

# 1993 Building 1565 Groundwater Field Survey Data

| Sample Number | Method | Chemical | Det Conc | Det Limit | Units | Flags |
|---|---|---|---|---|---|---|
| FS33 | 601 | 1,1,1-Trichloroethane | ND | 0.2 | ug/L | |
| | 601 | Carbon tetrachloride | ND | 0.2 | ug/L | |
| | 601 | Chloroform | ND | 0.2 | ug/L | |
| | 601 | Methylene chloride | ND | 0.5 | ug/L | |
| | 601 | 1,1-Dichloroethane | ND | 0.2 | ug/L | |
| | 601 | 1,2 Dichloroethane | ND | 0.2 | ug/L | |
| | 601 | T-1,2-Dichloroethene | ND | 0.2 | ug/L | |
| | 601 | C-1,2-Dichloroethene | ND | 0.2 | ug/L | |
| | 601 | Trichloroethene | ND | 0.2 | ug/L | |
| | 601 | 1,1-Dichloroethene | ND | 0.2 | ug/L | |
| | 602 | Benzene | ND | 0.2 | ug/L | |
| | 602 | Ethyl Benzene | ND | 0.2 | ug/L | |
| | 602 | Toluene | ND | 0.03 | ug/L | |
| | 602 | Xylenes | ND | 0.4 | ug/L | |
| FS34 | 601 | 1,1,1-Trichloroethane | 30 | | ug/L | |
| | 601 | Carbon tetrachloride | ND | 0.2 | ug/L | |
| | 601 | Chloroform | 0.3 | | ug/L | |
| | 601 | Methylene chloride | ND | 0.5 | ug/L | |
| | 601 | 1,1-Dichloroethane | 19 | | ug/L | |
| | 601 | 1,2 Dichloroethane | ND | 0.2 | ug/L | |
| | 601 | T-1,2-Dichloroethene | 1.4 | | ug/L | |
| | 601 | C-1,2-Dichloroethene | 2.2 | | ug/L | |
| | 601 | Trichloroethene | 1.4 | | ug/L | |
| | 601 | 1,1-Dichloroethene | 0.7 | | ug/L | |
| | 602 | Benzene | 7.8 | | ug/L | |
| | 602 | Ethyl Benzene | 15 | | ug/L | |
| | 602 | Toluene | 24 | | ug/L | |
| | 602 | Xylenes | 89 | | ug/L | |
| FS35 | 601 | 1,1,1-Trichloroethane | ND | 0.2 | ug/L | |
| | 601 | Carbon tetrachloride | ND | 0.2 | ug/L | |
| | 601 | Chloroform | ND | 0.2 | ug/L | |
| | 601 | Methylene chloride | ND | 0.5 | ug/L | |
| | 601 | 1,1-Dichloroethane | 0.5 | | ug/L | |
| | 601 | 1,2 Dichloroethane | ND | 0.2 | ug/L | |
| | 601 | T-1,2-Dichloroethene | 1.3 | | ug/L | |
| | 601 | C-1,2-Dichloroethene | 1.3 | | ug/L | |
| | 601 | Trichloroethene | 0.3 | | ug/L | |
| | 601 | 1,1-Dichloroethene | ND | 0.2 | ug/L | |
| | 602 | Benzene | 0.5 | | ug/L | |
| | 602 | Ethyl Benzene | ND | 0.2 | ug/L | |
| | 602 | Toluene | 0.5 | | ug/L | |
| | 602 | Xylenes | ND | 0.4 | ug/L | |
| FS36 | 601 | 1,1,1-Trichloroethane | ND | 0.2 | ug/L | |
| | 601 | Carbon tetrachloride | ND | 0.2 | ug/L | |
| | 601 | Chloroform | ND | 0.2 | ug/L | |
| | 601 | Methylene chloride | ND | 0.5 | ug/L | |
| | 601 | 1,1-Dichloroethane | 0.9 | | ug/L | |
| | 601 | 1,2 Dichloroethane | ND | 0.2 | ug/L | |
| | 601 | T-1,2-Dichloroethene | 1.7 | | ug/L | |
| | 601 | C-1,2-Dichloroethene | 1.7 | | ug/L | |
| | 601 | Trichloroethene | 0.4 | | ug/L | |
| | 601 | 1,1-Dichloroethene | ND | 0.2 | ug/L | |
| | 602 | Benzene | ND | 0.2 | ug/L | |
| | 602 | Ethyl Benzene | 0.9 | | ug/L | |
| | 602 | Toluene | ND | 0.03 | ug/L | |
| | 602 | Xylenes | ND | 0.4 | ug/L | |
| FS37 | 601 | 1,1,1-Trichloroethane | ND | 0.2 | ug/L | |
| | 601 | Carbon tetrachloride | ND | 0.2 | ug/L | |
| | 601 | Chloroform | ND | 0.2 | ug/L | |
| | 601 | Methylene chloride | ND | 0.5 | ug/L | |
| | 601 | 1,1-Dichloroethane | ND | 0.2 | ug/L | |
| | 601 | 1,2 Dichloroethane | 0.2 | | ug/L | |
| | 601 | T-1,2-Dichloroethene | 1 | | ug/L | |

# 1993 Building 1565 Groundwater Field Survey Data

| Sample Number | Method | Chemical | Det Conc | Det Limit | Units | Flags |
|---|---|---|---|---|---|---|
| | 601 | C-1,2-Dichloroethene | 1.6 | | ug/L | |
| | 601 | Trichloroethene | 0.5 | | ug/L | |
| | 601 | 1,1-Dichloroethene | ND | 0.2 | ug/L | |
| | 602 | Benzene | 0.2 | | ug/L | |
| | 602 | Ethyl Benzene | ND | 0.2 | ug/L | |
| | 602 | Toluene | ND | 0.03 | ug/L | |
| | 602 | Xylenes | ND | 0.4 | ug/L | |
| FS38 | 601 | 1,1,1-Trichloroethane | ND | 0.2 | ug/L | |
| | 601 | Carbon tetrachloride | ND | 0.2 | ug/L | |
| | 601 | Chloroform | ND | 0.2 | ug/L | |
| | 601 | Methylene chloride | ND | 0.5 | ug/L | |
| | 601 | 1,1-Dichloroethane | ND | 0.2 | ug/L | |
| | 601 | 1,2 Dichloroethane | ND | 0.2 | ug/L | |
| | 601 | T-1,2-Dichloroethene | 0.4 | | ug/L | |
| | 601 | C-1,2-Dichloroethene | 1.7 | | ug/L | |
| | 601 | Trichloroethene | 0.6 | | ug/L | |
| | 601 | 1,1-Dichloroethene | ND | 0.2 | ug/L | |
| | 602 | Benzene | 0.5 | | ug/L | |
| | 602 | Ethyl Benzene | ND | 0.2 | ug/L | |
| | 602 | Toluene | ND | 0.03 | ug/L | |
| | 602 | Xylenes | ND | 0.4 | ug/L | |

## 1993 Building 1565 Soil Data

Source: HLA, July 1994
Phase II Site Investigation
Fort Wainwright, Alaska

# 1993 Building 1565 Soil Data

| Sample Number | | Method | Chemical | Det Conc | Det Limit | Units | Flags |
|---|---|---|---|---|---|---|---|
| 93FW1565001 | SL | 8260 | Acetone | 15.0 | 14.0 | ug/kg | B-O |
| 93FW1565001 | SL | 8260 | Benzene | ND | 6.9 | ug/kg | |
| 93FW1565001 | SL | 8260 | Bromobenzene | ND | 6.9 | ug/kg | |
| 93FW1565001 | SL | 8260 | Bromochloromethane | ND | 6.9 | ug/kg | |
| 93FW1565001 | SL | 8260 | Bromodichloromethane | ND | 6.9 | ug/kg | |
| 93FW1565001 | SL | 8260 | Bromoform | ND | 6.9 | ug/kg | |
| 93FW1565001 | SL | 8260 | Bromomethane | ND | 6.9 | ug/kg | |
| 93FW1565001 | SL | 8260 | 2-Butanone | ND | 14.0 | ug/kg | |
| 93FW1565001 | SL | 8260 | n-Butylbenzene | ND | 6.9 | ug/kg | |
| 93FW1565001 | SL | 8260 | sec-Butylbenzene | ND | 6.9 | ug/kg | |
| 93FW1565001 | SL | 8260 | tert-Butylbenzene | ND | 6.9 | ug/kg | |
| 93FW1565001 | SL | 8260 | Carbon Tetrachloride | ND | 6.9 | ug/kg | |
| 93FW1565001 | SL | 8260 | Chlorobenzene | ND | 6.9 | ug/kg | |
| 93FW1565001 | SL | 8260 | Chloroethane | ND | 6.9 | ug/kg | |
| 93FW1565001 | SL | 8260 | Chloroform | ND | 6.9 | ug/kg | |
| 93FW1565001 | SL | 8260 | Chloromethane | ND | 6.9 | ug/kg | |
| 93FW1565001 | SL | 8260 | 2-Chlorotoluene | ND | 6.9 | ug/kg | |
| 93FW1565001 | SL | 8260 | 4-Chlrortoluene | ND | 6.9 | ug/kg | |
| 93FW1565001 | SL | 8260 | 1,2-Dibromo-3-chloropropane | ND | 6.9 | ug/kg | |
| 93FW1565001 | SL | 8260 | 1,2-Dibromoethane | ND | 6.9 | ug/kg | |
| 93FW1565001 | SL | 8260 | Dibromochloromethane | ND | 6.9 | ug/kg | |
| 93FW1565001 | SL | 8260 | Dibromomethane | ND | 6.9 | ug/kg | |
| 93FW1565001 | SL | 8260 | 1,2-Dichlorobenzene | ND | 6.9 | ug/kg | |
| 93FW1565001 | SL | 8260 | 1,3-Dichlorobenzene | ND | 6.9 | ug/kg | |
| 93FW1565001 | SL | 8260 | 1.4-Dibhlorobenzene | ND | 6.9 | ug/kg | |
| 93FW1565001 | SL | 8260 | Dichlorodifluoromethane | ND | 6.9 | ug/kg | |
| 93FW1565001 | SL | 8260 | 1,1-Dichloroethane | ND | 6.9 | ug/kg | |
| 93FW1565001 | SL | 8260 | 1,2-Dichloroethane | ND | 6.9 | ug/kg | |
| 93FW1565001 | SL | 8260 | 1,1-Dichloroethene | ND | 6.9 | ug/kg | |
| 93FW1565001 | SL | 8260 | cis-1,2-Dichloroethene | ND | 6.9 | ug/kg | |
| 93FW1565001 | SL | 8260 | trans-1,2-Dichloroethene | ND | 6.9 | ug/kg | |
| 93FW1565001 | SL | 8260 | 1,2-Dichloropropane | ND | 6.9 | ug/kg | |
| 93FW1565001 | SL | 8260 | 1,3-Dichloropropane | ND | 6.9 | ug/kg | |
| 93FW1565001 | SL | 8260 | 2,2-Dichloropropane | ND | 6.9 | ug/kg | |
| 93FW1565001 | SL | 8260 | trans-1,3-Dichloropropene | ND | 6.9 | ug/kg | |
| 93FW1565001 | SL | 8260 | 1,1-Dichloropropene | ND | 6.9 | ug/kg | |
| 93FW1565001 | SL | 8260 | cis-1,3-Dichloropropene | ND | 6.9 | ug/kg | |
| 93FW1565001 | SL | 8260 | Ethyl benzene | ND | 6.9 | ug/kg | |
| 93FW1565001 | SL | 8260 | Hexachlorobutadiene | ND | 6.9 | ug/kg | |
| 93FW1565001 | SL | 8260 | Isopropylbenzene | ND | 6.9 | ug/kg | |
| 93FW1565001 | SL | 8260 | p-Isopropyltoluene | ND | 6.9 | ug/kg | |
| 93FW1565001 | SL | 8260 | Methylene chloride | 18.0 | 6.9 | ug/kg | B-O |
| 93FW1565001 | SL | 8260 | Naphthalene | ND | 6.9 | ug/kg | |
| 93FW1565001 | SL | 8260 | n-Propylbenzene | ND | 6.9 | ug/kg | |
| 93FW1565001 | SL | 8260 | Styrene | ND | 6.9 | ug/kg | |
| 93FW1565001 | SL | 8260 | 1,1,1,2-Tetrachloroethane | ND | 6.9 | ug/kg | |
| 93FW1565001 | SL | 8260 | 1,1,2,2,-Tetrachloroethane | ND | 6.9 | ug/kg | |
| 93FW1565001 | SL | 8260 | Tetrachloroethene | ND | 6.9 | ug/kg | |
| 93FW1565001 | SL | 8260 | 1,2,3-Trichlorobenzene | ND | 6.9 | ug/kg | |
| 93FW1565001 | SL | 8260 | 1,2,4-Trichlorobenzene | ND | 6.9 | ug/kg | |
| 93FW1565001 | SL | 8260 | 1,1,1-Trichloroethane | ND | 6.9 | ug/kg | |
| 93FW1565001 | SL | 8260 | 1,1,2-Trichloroethane | ND | 6.9 | ug/kg | |
| 93FW1565001 | SL | 8260 | Trichloroethene | ND | 6.9 | ug/kg | |
| 93FW1565001 | SL | 8260 | Trichlorofluoromethane | ND | 6.9 | ug/kg | |
| 93FW1565001 | SL | 8260 | 1,2,3-Trichloropropane | ND | 6.9 | ug/kg | |
| 93FW1565001 | SL | 8260 | 1.2.4-Trimethylbenzene | ND | 6.9 | ug/kg | |
| 93FW1565001 | SL | 8260 | 1,3,5-Trimethylbenzene | ND | 6.9 | ug/kg | |
| 93FW1565001 | SL | 8260 | Toulene | ND | 6.9 | ug/kg | |
| 93FW1565001 | SL | 8260 | Vinyl chloride | ND | 6.9 | ug/kg | |
| 93FW1565001 | SL | 8260 | o-Xylene | ND | 6.9 | ug/kg | |
| 93FW1565001 | SL | 8260 | m & p-Xylene | ND | 6.9 | ug/kg | |
| 93FW1565001 | SL | 8260 | SURROGATE RESULTS | - - | | | |
| 93FW1565001 | SL | 8260 | 4-Bromofluorobenzene (SURR) | 113.0 | | | |
| 93FW1565001 | SL | 8260 | Toluene-d8 (SURR) | 100.0 | | | |
| 93FW1565001 | SL | 8260 | 1,2-Dichloroethane-d4 (SURR) | 98.0 | | | |
| 93FW1565002 | SL | 8260 | Acetone | 8.4 | 10.0 | ug/kg | B-O |
| 93FW1565002 | SL | 8260 | Benzene | ND | 5.2 | ug/kg | |
| 93FW1565002 | SL | 8260 | Bromobenzene | ND | 5.2 | ug/kg | |

# 1993 Building 1565 Soil Data

| Sample Number | | Method | Chemical | Det Conc | Det Limit | Units | Flags |
|---|---|---|---|---|---|---|---|
| 93FW1565002 | SL | 8260 | Bromochloromethane | ND | 5.2 | ug/kg | |
| 93FW1565002 | SL | 8260 | Bromodichloromethane | ND | 5.2 | ug/kg | |
| 93FW1565002 | SL | 8260 | Bromoform | ND | 5.2 | ug/kg | |
| 93FW1565002 | SL | 8260 | Bromomethane | ND | 5.2 | ug/kg | |
| 93FW1565002 | SL | 8260 | 2-Butanone | ND | 10.0 | ug/kg | |
| 93FW1565002 | SL | 8260 | n-Butylbenzene | ND | 5.2 | ug/kg | |
| 93FW1565002 | SL | 8260 | sec-Butylbenzene | ND | 5.2 | ug/kg | |
| 93FW1565002 | SL | 8260 | tert-Butylbenzene | ND | 5.2 | ug/kg | |
| 93FW1565002 | SL | 8260 | Carbon Tetrachloride | ND | 5.2 | ug/kg | |
| 93FW1565002 | SL | 8260 | Chlorobenzene | ND | 5.2 | ug/kg | |
| 93FW1565002 | SL | 8260 | Chloroethane | ND | 5.2 | ug/kg | |
| 93FW1565002 | SL | 8260 | Chloroform | ND | 5.2 | ug/kg | |
| 93FW1565002 | SL | 8260 | Chloromethane | ND | 5.2 | ug/kg | |
| 93FW1565002 | SL | 8260 | 2-Chlorotoluene | ND | 5.2 | ug/kg | |
| 93FW1565002 | SL | 8260 | 4-Chlrortoluene | ND | 5.2 | ug/kg | |
| 93FW1565002 | SL | 8260 | 1,2-Dibromo-3-chloropropane | ND | 5.2 | ug/kg | |
| 93FW1565002 | SL | 8260 | 1,2-Dibromoethane | ND | 5.2 | ug/kg | |
| 93FW1565002 | SL | 8260 | Dibromochloromethane | ND | 5.2 | ug/kg | |
| 93FW1565002 | SL | 8260 | Dibromomethane | ND | 5.2 | ug/kg | |
| 93FW1565002 | SL | 8260 | 1,2-Dichlorobenzene | ND | 5.2 | ug/kg | |
| 93FW1565002 | SL | 8260 | 1,3-Dichlorobenzene | ND | 5.2 | ug/kg | |
| 93FW1565002 | SL | 8260 | 1.4-Dibhlorobenzene | ND | 5.2 | ug/kg | |
| 93FW1565002 | SL | 8260 | Dichlorodifluoromethane | ND | 5.2 | ug/kg | |
| 93FW1565002 | SL | 8260 | 1,1-Dichloroethane | ND | 5.2 | ug/kg | |
| 93FW1565002 | SL | 8260 | 1,2-Dichloroethane | ND | 5.2 | ug/kg | |
| 93FW1565002 | SL | 8260 | 1,1-Dichloroethene | ND | 5.2 | ug/kg | |
| 93FW1565002 | SL | 8260 | cis-1,2-Dichloroethene | ND | 5.2 | ug/kg | |
| 93FW1565002 | SL | 8260 | trans-1,2-Dichloroethene | ND | 5.2 | ug/kg | |
| 93FW1565002 | SL | 8260 | 1,2-Dichloropropane | ND | 5.2 | ug/kg | |
| 93FW1565002 | SL | 8260 | 1,3-Dichloropropane | ND | 5.2 | ug/kg | |
| 93FW1565002 | SL | 8260 | 2,2-Dichloropropane | ND | 5.2 | ug/kg | |
| 93FW1565002 | SL | 8260 | trans-1,3-Dichloropropene | ND | 5.2 | ug/kg | |
| 93FW1565002 | SL | 8260 | 1,1-Dichloropropene | ND | 5.2 | ug/kg | |
| 93FW1565002 | SL | 8260 | cis-1,3-Dichloropropene | ND | 5.2 | ug/kg | |
| 93FW1565002 | SL | 8260 | Ethyl benzene | ND | 5.2 | ug/kg | |
| 93FW1565002 | SL | 8260 | Hexachlorobutadiene | ND | 5.2 | ug/kg | |
| 93FW1565002 | SL | 8260 | Isopropylbenzene | ND | 5.2 | ug/kg | |
| 93FW1565002 | SL | 8260 | p-Isopropyltoluene | ND | 5.2 | ug/kg | |
| 93FW1565002 | SL | 8260 | Methylene chloride | 10.0 | 5.2 | ug/kg | B-O |
| 93FW1565002 | SL | 8260 | Naphthalene | ND | 5.2 | ug/kg | |
| 93FW1565002 | SL | 8260 | n-Propylbenzene | ND | 5.2 | ug/kg | |
| 93FW1565002 | SL | 8260 | Styrene | ND | 5.2 | ug/kg | |
| 93FW1565002 | SL | 8260 | 1,1,1,2-Tetrachloroethane | ND | 5.2 | ug/kg | |
| 93FW1565002 | SL | 8260 | 1,1,2,2,-Tetrachloroethane | ND | 5.2 | ug/kg | |
| 93FW1565002 | SL | 8260 | Tetrachloroethene | ND | 5.2 | ug/kg | |
| 93FW1565002 | SL | 8260 | 1,2,3-Trichlorobenzene | ND | 5.2 | ug/kg | |
| 93FW1565002 | SL | 8260 | 1,2,4-Trichlorobenzene | ND | 5.2 | ug/kg | |
| 93FW1565002 | SL | 8260 | 1,1,1-Trichloroethane | ND | 5.2 | ug/kg | |
| 93FW1565002 | SL | 8260 | 1,1,2-Trichloroethane | ND | 5.2 | ug/kg | |
| 93FW1565002 | SL | 8260 | Trichloroethene | ND | 5.2 | ug/kg | |
| 93FW1565002 | SL | 8260 | Trichlorofluoromethane | ND | 5.2 | ug/kg | |
| 93FW1565002 | SL | 8260 | 1,2,3-Trichloropropane | ND | 5.2 | ug/kg | |
| 93FW1565002 | SL | 8260 | 1.2.4-Trimethylbenzene | ND | 5.2 | ug/kg | |
| 93FW1565002 | SL | 8260 | 1,3,5-Trimethylbenzene | ND | 5.2 | ug/kg | |
| 93FW1565002 | SL | 8260 | Toulene | ND | 5.2 | ug/kg | |
| 93FW1565002 | SL | 8260 | Vinyl chloride | ND | 5.2 | ug/kg | |
| 93FW1565002 | SL | 8260 | o-Xylene | ND | 5.2 | ug/kg | |
| 93FW1565002 | SL | 8260 | m & p-Xylene | ND | 5.2 | ug/kg | |
| 93FW1565002 | SL | 8260 | SURROGATE RESULTS | - - | | | |
| 93FW1565002 | SL | 8260 | 4-Bromofluorobenzene (SURR) | 110.0 | | | |
| 93FW1565002 | SL | 8260 | Toluene-d8 (SURR) | 97.0 | | | |
| 93FW1565002 | SL | 8260 | 1,2-Dichloroethane-d4 (SURR) | 97.0 | | | |
| 93FW1565003 | SL | 8260 | Acetone | ND | 10.0 | ug/kg | |
| 93FW1565003 | SL | 8260 | Benzene | ND | 5.1 | ug/kg | |
| 93FW1565003 | SL | 8260 | Bromobenzene | ND | 5.1 | ug/kg | |
| 93FW1565003 | SL | 8260 | Bromochloromethane | ND | 5.1 | ug/kg | |
| 93FW1565003 | SL | 8260 | Bromodichloromethane | ND | 5.1 | ug/kg | |
| 93FW1565003 | SL | 8260 | Bromoform | ND | 5.1 | ug/kg | |

# 1993 Building 1565 Soil Data

| Sample Number | | Method | Chemical | Det Conc | Det Limit | Units | Flags |
|---|---|---|---|---|---|---|---|
| 93FW1565003 | SL | 8260 | Bromomethane | ND | 5.1 | ug/kg | |
| 93FW1565003 | SL | 8260 | 2-Butanone | ND | 10.0 | ug/kg | |
| 93FW1565003 | SL | 8260 | n-Butylbenzene | ND | 5.1 | ug/kg | |
| 93FW1565003 | SL | 8260 | sec-Butylbenzene | ND | 5.1 | ug/kg | |
| 93FW1565003 | SL | 8260 | tert-Butylbenzene | ND | 5.1 | ug/kg | |
| 93FW1565003 | SL | 8260 | Carbon Tetrachloride | ND | 5.1 | ug/kg | |
| 93FW1565003 | SL | 8260 | Chlorobenzene | ND | 5.1 | ug/kg | |
| 93FW1565003 | SL | 8260 | Chloroethane | ND | 5.1 | ug/kg | |
| 93FW1565003 | SL | 8260 | Chloroform | ND | 5.1 | ug/kg | |
| 93FW1565003 | SL | 8260 | Chloromethane | ND | 5.1 | ug/kg | |
| 93FW1565003 | SL | 8260 | 2-Chlorotoluene | ND | 5.1 | ug/kg | |
| 93FW1565003 | SL | 8260 | 4-Chlrortoluene | ND | 5.1 | ug/kg | |
| 93FW1565003 | SL | 8260 | 1,2-Dibromo-3-chloropropane | ND | 5.1 | ug/kg | |
| 93FW1565003 | SL | 8260 | 1,2-Dibromoethane | ND | 5.1 | ug/kg | |
| 93FW1565003 | SL | 8260 | Dibromochloromethane | ND | 5.1 | ug/kg | |
| 93FW1565003 | SL | 8260 | Dibromomethane | ND | 5.1 | ug/kg | |
| 93FW1565003 | SL | 8260 | 1,2-Dichlorobenzene | ND | 5.1 | ug/kg | |
| 93FW1565003 | SL | 8260 | 1,3-Dichlorobenzene | ND | 5.1 | ug/kg | |
| 93FW1565003 | SL | 8260 | 1.4-Dibhlorobenzene | ND | 5.1 | ug/kg | |
| 93FW1565003 | SL | 8260 | Dichlorodifluoromethane | ND | 5.1 | ug/kg | |
| 93FW1565003 | SL | 8260 | 1,1-Dichloroethane | ND | 5.1 | ug/kg | |
| 93FW1565003 | SL | 8260 | 1,2-Dichloroethane | ND | 5.1 | ug/kg | |
| 93FW1565003 | SL | 8260 | 1,1-Dichloroethene | ND | 5.1 | ug/kg | |
| 93FW1565003 | SL | 8260 | cis-1,2-Dichloroethene | ND | 5.1 | ug/kg | |
| 93FW1565003 | SL | 8260 | trans-1,2-Dichloroethene | ND | 5.1 | ug/kg | |
| 93FW1565003 | SL | 8260 | 1,2-Dichloropropane | ND | 5.1 | ug/kg | |
| 93FW1565003 | SL | 8260 | 1,3-Dichloropropane | ND | 5.1 | ug/kg | |
| 93FW1565003 | SL | 8260 | 2,2-Dichloropropane | ND | 5.1 | ug/kg | |
| 93FW1565003 | SL | 8260 | trans-1,3-Dichloropropene | ND | 5.1 | ug/kg | |
| 93FW1565003 | SL | 8260 | 1,1-Dichloropropene | ND | 5.1 | ug/kg | |
| 93FW1565003 | SL | 8260 | cis-1,3-Dichloropropene | ND | 5.1 | ug/kg | |
| 93FW1565003 | SL | 8260 | Ethyl benzene | ND | 5.1 | ug/kg | |
| 93FW1565003 | SL | 8260 | Hexachlorobutadiene | ND | 5.1 | ug/kg | |
| 93FW1565003 | SL | 8260 | Isopropylbenzene | ND | 5.1 | ug/kg | |
| 93FW1565003 | SL | 8260 | p-Isopropyltoluene | ND | 5.1 | ug/kg | |
| 93FW1565003 | SL | 8260 | Methylene chloride | 10.0 | 5.1 | ug/kg | B-O |
| 93FW1565003 | SL | 8260 | Naphthalene | ND | 5.1 | ug/kg | |
| 93FW1565003 | SL | 8260 | n-Propylbenzene | ND | 5.1 | ug/kg | |
| 93FW1565003 | SL | 8260 | Styrene | ND | 5.1 | ug/kg | |
| 93FW1565003 | SL | 8260 | 1,1,1,2-Tetrachloroethane | ND | 5.1 | ug/kg | |
| 93FW1565003 | SL | 8260 | 1,1,2,2,-Tetrachloroethane | ND | 5.1 | ug/kg | |
| 93FW1565003 | SL | 8260 | Tetrachloroethene | ND | 5.1 | ug/kg | |
| 93FW1565003 | SL | 8260 | 1,2,3-Trichlorobenzene | ND | 5.1 | ug/kg | |
| 93FW1565003 | SL | 8260 | 1,2,4-Trichlorobenzene | ND | 5.1 | ug/kg | |
| 93FW1565003 | SL | 8260 | 1,1,1-Trichloroethane | ND | 5.1 | ug/kg | |
| 93FW1565003 | SL | 8260 | 1,1,2-Trichloroethane | ND | 5.1 | ug/kg | |
| 93FW1565003 | SL | 8260 | Trichloroethene | ND | 5.1 | ug/kg | |
| 93FW1565003 | SL | 8260 | Trichlorofluoromethane | ND | 5.1 | ug/kg | |
| 93FW1565003 | SL | 8260 | 1,2,3-Trichloropropane | ND | 5.1 | ug/kg | |
| 93FW1565003 | SL | 8260 | 1.2.4-Trimethylbenzene | ND | 5.1 | ug/kg | |
| 93FW1565003 | SL | 8260 | 1,3,5-Trimethylbenzene | ND | 5.1 | ug/kg | |
| 93FW1565003 | SL | 8260 | Toulene | ND | 5.1 | ug/kg | |
| 93FW1565003 | SL | 8260 | Vinyl chloride | ND | 5.1 | ug/kg | |
| 93FW1565003 | SL | 8260 | o-Xylene | ND | 5.1 | ug/kg | |
| 93FW1565003 | SL | 8260 | m & p-Xylene | ND | 5.1 | ug/kg | |
| 93FW1565003 | SL | 8260 | SURROGATE RESULTS | -- | | | |
| 93FW1565003 | SL | 8260 | 4-Bromofluorobenzene (SURR) | 106.0 | | | |
| 93FW1565003 | SL | 8260 | Toluene-d8 (SURR) | 94.0 | | | |
| 93FW1565003 | SL | 8260 | 1,2-Dichloroethane-d4 (SURR) | 98.0 | | | |
| 93FW1565004 | SL | 8260 | Acetone | 16.0 | 13.0 | ug/kg | B-O |
| 93FW1565004 | SL | 8260 | Benzene | ND | 6.3 | ug/kg | |
| 93FW1565004 | SL | 8260 | Bromobenzene | ND | 6.3 | ug/kg | |
| 93FW1565004 | SL | 8260 | Bromochloromethane | ND | 6.3 | ug/kg | |
| 93FW1565004 | SL | 8260 | Bromodichloromethane | ND | 6.3 | ug/kg | |
| 93FW1565004 | SL | 8260 | Bromoform | ND | 6.3 | ug/kg | |
| 93FW1565004 | SL | 8260 | Bromomethane | ND | 6.3 | ug/kg | |
| 93FW1565004 | SL | 8260 | 2-Butanone | ND | 13.0 | ug/kg | |
| 93FW1565004 | SL | 8260 | n-Butylbenzene | ND | 6.3 | ug/kg | |

# 1993 Building 1565 Soil Data

| Sample Number | | Method | Chemical | Det Conc | Det Limit | Units | Flags |
|---|---|---|---|---|---|---|---|
| 93FW1565004 | SL | 8260 | sec-Butylbenzene | ND | 6.3 | ug/kg | |
| 93FW1565004 | SL | 8260 | tert-Butylbenzene | ND | 6.3 | ug/kg | |
| 93FW1565004 | SL | 8260 | Carbon Tetrachloride | ND | 6.3 | ug/kg | |
| 93FW1565004 | SL | 8260 | Chlorobenzene | ND | 6.3 | ug/kg | |
| 93FW1565004 | SL | 8260 | Chloroethane | ND | 6.3 | ug/kg | |
| 93FW1565004 | SL | 8260 | Chloroform | ND | 6.3 | ug/kg | |
| 93FW1565004 | SL | 8260 | Chloromethane | ND | 6.3 | ug/kg | |
| 93FW1565004 | SL | 8260 | 2-Chlorotoluene | ND | 6.3 | ug/kg | |
| 93FW1565004 | SL | 8260 | 4-Chlrortoluene | ND | 6.3 | ug/kg | |
| 93FW1565004 | SL | 8260 | 1,2-Dibromo-3-chloropropane | ND | 6.3 | ug/kg | |
| 93FW1565004 | SL | 8260 | 1,2-Dibromoethane | ND | 6.3 | ug/kg | |
| 93FW1565004 | SL | 8260 | Dibromochloromethane | ND | 6.3 | ug/kg | |
| 93FW1565004 | SL | 8260 | Dibromomethane | ND | 6.3 | ug/kg | |
| 93FW1565004 | SL | 8260 | 1,2-Dichlorobenzene | ND | 6.3 | ug/kg | |
| 93FW1565004 | SL | 8260 | 1,3-Dichlorobenzene | ND | 6.3 | ug/kg | |
| 93FW1565004 | SL | 8260 | 1.4-Dibhlorobenzene | ND | 6.3 | ug/kg | |
| 93FW1565004 | SL | 8260 | Dichlorodifluoromethane | ND | 6.3 | ug/kg | |
| 93FW1565004 | SL | 8260 | 1,1-Dichloroethane | ND | 6.3 | ug/kg | |
| 93FW1565004 | SL | 8260 | 1,2-Dichloroethane | ND | 6.3 | ug/kg | |
| 93FW1565004 | SL | 8260 | 1,1-Dichloroethene | ND | 6.3 | ug/kg | |
| 93FW1565004 | SL | 8260 | cis-1,2-Dichloroethene | ND | 6.3 | ug/kg | |
| 93FW1565004 | SL | 8260 | trans-1,2-Dichloroethene | ND | 6.3 | ug/kg | |
| 93FW1565004 | SL | 8260 | 1,2-Dichloropropane | ND | 6.3 | ug/kg | |
| 93FW1565004 | SL | 8260 | 1,3-Dichloropropane | ND | 6.3 | ug/kg | |
| 93FW1565004 | SL | 8260 | 2,2-Dichloropropane | ND | 6.3 | ug/kg | |
| 93FW1565004 | SL | 8260 | trans-1,3-Dichloropropene | ND | 6.3 | ug/kg | |
| 93FW1565004 | SL | 8260 | 1,1-Dichloropropene | ND | 6.3 | ug/kg | |
| 93FW1565004 | SL | 8260 | cis-1,3-Dichloropropene | ND | 6.3 | ug/kg | |
| 93FW1565004 | SL | 8260 | Ethyl benzene | ND | 6.3 | ug/kg | |
| 93FW1565004 | SL | 8260 | Hexachlorobutadiene | ND | 6.3 | ug/kg | |
| 93FW1565004 | SL | 8260 | Isopropylbenzene | ND | 6.3 | ug/kg | |
| 93FW1565004 | SL | 8260 | p-Isopropyltoluene | ND | 6.3 | ug/kg | |
| 93FW1565004 | SL | 8260 | Methylene chloride | 16.0 | 6.3 | ug/kg | B-O |
| 93FW1565004 | SL | 8260 | Naphthalene | ND | 6.3 | ug/kg | |
| 93FW1565004 | SL | 8260 | n-Propylbenzene | ND | 6.3 | ug/kg | |
| 93FW1565004 | SL | 8260 | Styrene | ND | 6.3 | ug/kg | |
| 93FW1565004 | SL | 8260 | 1,1,1,2-Tetrachloroethane | ND | 6.3 | ug/kg | |
| 93FW1565004 | SL | 8260 | 1,1,2,2,-Tetrachloroethane | ND | 6.3 | ug/kg | |
| 93FW1565004 | SL | 8260 | Tetrachloroethene | ND | 6.3 | ug/kg | |
| 93FW1565004 | SL | 8260 | 1,2,3-Trichlorobenzene | ND | 6.3 | ug/kg | |
| 93FW1565004 | SL | 8260 | 1,2,4-Trichlorobenzene | ND | 6.3 | ug/kg | |
| 93FW1565004 | SL | 8260 | 1,1,1-Trichloroethane | ND | 6.3 | ug/kg | |
| 93FW1565004 | SL | 8260 | 1,1,2-Trichloroethane | ND | 6.3 | ug/kg | |
| 93FW1565004 | SL | 8260 | Trichloroethene | ND | 6.3 | ug/kg | |
| 93FW1565004 | SL | 8260 | Trichlorofluoromethane | ND | 6.3 | ug/kg | |
| 93FW1565004 | SL | 8260 | 1,2,3-Trichloropropane | ND | 6.3 | ug/kg | |
| 93FW1565004 | SL | 8260 | 1.2.4-Trimethylbenzene | ND | 6.3 | ug/kg | |
| 93FW1565004 | SL | 8260 | 1,3,5-Trimethylbenzene | ND | 6.3 | ug/kg | |
| 93FW1565004 | SL | 8260 | Toulene | ND | 6.3 | ug/kg | |
| 93FW1565004 | SL | 8260 | Vinyl chloride | ND | 6.3 | ug/kg | |
| 93FW1565004 | SL | 8260 | o-Xylene | ND | 6.3 | ug/kg | |
| 93FW1565004 | SL | 8260 | m & p-Xylene | ND | 6.3 | ug/kg | |
| 93FW1565004 | SL | 8260 | SURROGATE RESULTS | - - | | | |
| 93FW1565004 | SL | 8260 | 4-Bromofluorobenzene (SURR) | 109.0 | | | |
| 93FW1565004 | SL | 8260 | Toluene-d8 (SURR) | 94.0 | | | |
| 93FW1565004 | SL | 8260 | 1,2-Dichloroethane-d4 (SURR) | 96.0 | | | |
| 93FW1565005 | SL | 418.1 | TRPH | 120.0 | 12.0 | mg/kg | |
| 93FW1565005 | SL | 7421 | Lead (GFAA) | 18.0 | 0.2 | mg/kg | |
| 93FW1565005 | SL | 8015M | Gasoline Range ORganics | 1.8 | 1.2 | mg/kg | |
| 93FW1565005 | SL | 8015M | SURROGATE RESULTS | - - | | | |
| 93FW1565005 | SL | 8015M | Bromofluorobenzene (SURR) | 127.0 | | | |
| 93FW1565005 | SL | 8100M | Diesel Range Organics | 100.0 | 24.0 | mg/kg | B-O |
| 93FW1565005 | SL | 8100M | SURROGATE RESULTS | - - | | | |
| 93FW1565005 | SL | 8100M | Ortho-terphenyl | 89.0 | | | |
| 93FW1565005 | SL | 8260 | Acetone | ND | 12.0 | ug/kg | |
| 93FW1565005 | SL | 8260 | Benzene | ND | 6.0 | ug/kg | |
| 93FW1565005 | SL | 8260 | Bromobenzene | ND | 6.0 | ug/kg | |
| 93FW1565005 | SL | 8260 | Bromochloromethane | ND | 6.0 | ug/kg | |

# 1993 Building 1565 Soil Data

| Sample Number | | Method | Chemical | Det Conc | Det Limit | Units | Flags |
|---|---|---|---|---|---|---|---|
| 93FW1565005 | SL | 8260 | Bromodichloromethane | ND | 6.0 | ug/kg | |
| 93FW1565005 | SL | 8260 | Bromoform | ND | 6.0 | ug/kg | |
| 93FW1565005 | SL | 8260 | Bromomethane | ND | 6.0 | ug/kg | |
| 93FW1565005 | SL | 8260 | 2-Butanone | ND | 12.0 | ug/kg | |
| 93FW1565005 | SL | 8260 | n-Butylbenzene | ND | 6.0 | ug/kg | |
| 93FW1565005 | SL | 8260 | sec-Butylbenzene | ND | 6.0 | ug/kg | |
| 93FW1565005 | SL | 8260 | tert-Butylbenzene | ND | 6.0 | ug/kg | |
| 93FW1565005 | SL | 8260 | Carbon Tetrachloride | ND | 6.0 | ug/kg | |
| 93FW1565005 | SL | 8260 | Chlorobenzene | ND | 6.0 | ug/kg | |
| 93FW1565005 | SL | 8260 | Chloroethane | ND | 6.0 | ug/kg | |
| 93FW1565005 | SL | 8260 | Chloroform | ND | 6.0 | ug/kg | |
| 93FW1565005 | SL | 8260 | Chloromethane | ND | 6.0 | ug/kg | |
| 93FW1565005 | SL | 8260 | 2-Chlorotoluene | ND | 6.0 | ug/kg | |
| 93FW1565005 | SL | 8260 | 4-Chlrortoluene | ND | 6.0 | ug/kg | |
| 93FW1565005 | SL | 8260 | 1,2-Dibromo-3-chloropropane | ND | 6.0 | ug/kg | |
| 93FW1565005 | SL | 8260 | 1,2-Dibromoethane | ND | 6.0 | ug/kg | |
| 93FW1565005 | SL | 8260 | Dibromochloromethane | ND | 6.0 | ug/kg | |
| 93FW1565005 | SL | 8260 | Dibromomethane | ND | 6.0 | ug/kg | |
| 93FW1565005 | SL | 8260 | 1,2-Dichlorobenzene | ND | 6.0 | ug/kg | |
| 93FW1565005 | SL | 8260 | 1,3-Dichlorobenzene | ND | 6.0 | ug/kg | |
| 93FW1565005 | SL | 8260 | 1.4-Dibhlorobenzene | ND | 6.0 | ug/kg | |
| 93FW1565005 | SL | 8260 | Dichlorodifluoromethane | ND | 6.0 | ug/kg | |
| 93FW1565005 | SL | 8260 | 1,1-Dichloroethane | ND | 6.0 | ug/kg | |
| 93FW1565005 | SL | 8260 | 1,2-Dichloroethane | ND | 6.0 | ug/kg | |
| 93FW1565005 | SL | 8260 | 1,1-Dichloroethene | ND | 6.0 | ug/kg | |
| 93FW1565005 | SL | 8260 | cis-1,2-Dichloroethene | ND | 6.0 | ug/kg | |
| 93FW1565005 | SL | 8260 | trans-1,2-Dichloroethene | ND | 6.0 | ug/kg | |
| 93FW1565005 | SL | 8260 | 1,2-Dichloropropane | ND | 6.0 | ug/kg | |
| 93FW1565005 | SL | 8260 | 1,3-Dichloropropane | ND | 6.0 | ug/kg | |
| 93FW1565005 | SL | 8260 | 2,2-Dichloropropane | ND | 6.0 | ug/kg | |
| 93FW1565005 | SL | 8260 | trans-1,3-Dichloropropene | ND | 6.0 | ug/kg | |
| 93FW1565005 | SL | 8260 | 1,1-Dichloropropene | ND | 6.0 | ug/kg | |
| 93FW1565005 | SL | 8260 | cis-1,3-Dichloropropene | ND | 6.0 | ug/kg | |
| 93FW1565005 | SL | 8260 | Ethyl benzene | ND | 6.0 | ug/kg | |
| 93FW1565005 | SL | 8260 | Hexachlorobutadiene | ND | 6.0 | ug/kg | |
| 93FW1565005 | SL | 8260 | Isopropylbenzene | 7.3 | 6.0 | ug/kg | |
| 93FW1565005 | SL | 8260 | p-Isopropyltoluene | ND | 6.0 | ug/kg | |
| 93FW1565005 | SL | 8260 | Methylene chloride | 15.0 | 6.0 | ug/kg | B-O |
| 93FW1565005 | SL | 8260 | Naphthalene | ND | 6.0 | ug/kg | |
| 93FW1565005 | SL | 8260 | n-Propylbenzene | ND | 6.0 | ug/kg | |
| 93FW1565005 | SL | 8260 | Styrene | ND | 6.0 | ug/kg | |
| 93FW1565005 | SL | 8260 | 1,1,1,2-Tetrachloroethane | ND | 6.0 | ug/kg | |
| 93FW1565005 | SL | 8260 | 1,1,2,2,-Tetrachloroethane | ND | 6.0 | ug/kg | |
| 93FW1565005 | SL | 8260 | Tetrachloroethene | ND | 6.0 | ug/kg | |
| 93FW1565005 | SL | 8260 | 1,2,3-Trichlorobenzene | ND | 6.0 | ug/kg | |
| 93FW1565005 | SL | 8260 | 1,2,4-Trichlorobenzene | ND | 6.0 | ug/kg | |
| 93FW1565005 | SL | 8260 | 1,1,1-Trichloroethane | ND | 6.0 | ug/kg | |
| 93FW1565005 | SL | 8260 | 1,1,2-Trichloroethane | ND | 6.0 | ug/kg | |
| 93FW1565005 | SL | 8260 | Trichloroethene | ND | 6.0 | ug/kg | |
| 93FW1565005 | SL | 8260 | Trichlorofluoromethane | ND | 6.0 | ug/kg | |
| 93FW1565005 | SL | 8260 | 1,2,3-Trichloropropane | ND | 6.0 | ug/kg | |
| 93FW1565005 | SL | 8260 | 1.2.4-Trimethylbenzene | ND | 6.0 | ug/kg | |
| 93FW1565005 | SL | 8260 | 1,3,5-Trimethylbenzene | ND | 6.0 | ug/kg | |
| 93FW1565005 | SL | 8260 | Toulene | ND | 6.0 | ug/kg | |
| 93FW1565005 | SL | 8260 | Vinyl chloride | ND | 6.0 | ug/kg | |
| 93FW1565005 | SL | 8260 | o-Xylene | ND | 6.0 | ug/kg | |
| 93FW1565005 | SL | 8260 | m & p-Xylene | ND | 6.0 | ug/kg | |
| 93FW1565005 | SL | 8260 | SURROGATE RESULTS | - - | | | |
| 93FW1565005 | SL | 8260 | 4-Bromofluorobenzene (SURR) | 112.0 | | | |
| 93FW1565005 | SL | 8260 | Toluene-d8 (SURR) | 119.0 | | | |
| 93FW1565005 | SL | 8260 | 1,2-Dichloroethane-d4 (SURR) | 99.0 | | | |
| 93FW1565006 | SL | 8260 | Acetone | ND | 11.0 | ug/kg | |
| 93FW1565006 | SL | 8260 | Benzene | ND | 5.6 | ug/kg | |
| 93FW1565006 | SL | 8260 | Bromobenzene | ND | 5.6 | ug/kg | |
| 93FW1565006 | SL | 8260 | Bromochloromethane | ND | 5.6 | ug/kg | |
| 93FW1565006 | SL | 8260 | Bromodichloromethane | ND | 5.6 | ug/kg | |
| 93FW1565006 | SL | 8260 | Bromoform | ND | 5.6 | ug/kg | |
| 93FW1565006 | SL | 8260 | Bromomethane | ND | 5.6 | ug/kg | |

# 1993 Building 1565 Soil Data

| Sample Number | | Method | Chemical | Det Conc | Det Limit | Units | Flags |
|---|---|---|---|---|---|---|---|
| 93FW1565006 | SL | 8260 | 2-Butanone | ND | 11.0 | ug/kg | |
| 93FW1565006 | SL | 8260 | n-Butylbenzene | ND | 5.6 | ug/kg | |
| 93FW1565006 | SL | 8260 | sec-Butylbenzene | ND | 5.6 | ug/kg | |
| 93FW1565006 | SL | 8260 | tert-Butylbenzene | ND | 5.6 | ug/kg | |
| 93FW1565006 | SL | 8260 | Carbon Tetrachloride | ND | 5.6 | ug/kg | |
| 93FW1565006 | SL | 8260 | Chlorobenzene | ND | 5.6 | ug/kg | |
| 93FW1565006 | SL | 8260 | Chloroethane | ND | 5.6 | ug/kg | |
| 93FW1565006 | SL | 8260 | Chloroform | ND | 5.6 | ug/kg | |
| 93FW1565006 | SL | 8260 | Chloromethane | ND | 5.6 | ug/kg | |
| 93FW1565006 | SL | 8260 | 2-Chlorotoluene | ND | 5.6 | ug/kg | |
| 93FW1565006 | SL | 8260 | 4-Chlrortoluene | ND | 5.6 | ug/kg | |
| 93FW1565006 | SL | 8260 | 1,2-Dibromo-3-chloropropane | ND | 5.6 | ug/kg | |
| 93FW1565006 | SL | 8260 | 1,2-Dibromoethane | ND | 5.6 | ug/kg | |
| 93FW1565006 | SL | 8260 | Dibromochloromethane | ND | 5.6 | ug/kg | |
| 93FW1565006 | SL | 8260 | Dibromomethane | ND | 5.6 | ug/kg | |
| 93FW1565006 | SL | 8260 | 1,2-Dichlorobenzene | ND | 5.6 | ug/kg | |
| 93FW1565006 | SL | 8260 | 1,3-Dichlorobenzene | ND | 5.6 | ug/kg | |
| 93FW1565006 | SL | 8260 | 1.4-Dibhlorobenzene | ND | 5.6 | ug/kg | |
| 93FW1565006 | SL | 8260 | Dichlorodifluoromethane | ND | 5.6 | ug/kg | |
| 93FW1565006 | SL | 8260 | 1,1-Dichloroethane | ND | 5.6 | ug/kg | |
| 93FW1565006 | SL | 8260 | 1,2-Dichloroethane | ND | 5.6 | ug/kg | |
| 93FW1565006 | SL | 8260 | 1,1-Dichloroethene | ND | 5.6 | ug/kg | |
| 93FW1565006 | SL | 8260 | cis-1,2-Dichloroethene | ND | 5.6 | ug/kg | |
| 93FW1565006 | SL | 8260 | trans-1,2-Dichloroethene | ND | 5.6 | ug/kg | |
| 93FW1565006 | SL | 8260 | 1,2-Dichloropropane | ND | 5.6 | ug/kg | |
| 93FW1565006 | SL | 8260 | 1,3-Dichloropropane | ND | 5.6 | ug/kg | |
| 93FW1565006 | SL | 8260 | 2,2-Dichloropropane | ND | 5.6 | ug/kg | |
| 93FW1565006 | SL | 8260 | trans-1,3-Dichloropropene | ND | 5.6 | ug/kg | |
| 93FW1565006 | SL | 8260 | 1,1-Dichloropropene | ND | 5.6 | ug/kg | |
| 93FW1565006 | SL | 8260 | cis-1,3-Dichloropropene | ND | 5.6 | ug/kg | |
| 93FW1565006 | SL | 8260 | Ethyl benzene | ND | 5.6 | ug/kg | |
| 93FW1565006 | SL | 8260 | Hexachlorobutadiene | ND | 5.6 | ug/kg | |
| 93FW1565006 | SL | 8260 | Isopropylbenzene | ND | 5.6 | ug/kg | |
| 93FW1565006 | SL | 8260 | p-Isopropyltoluene | ND | 5.6 | ug/kg | |
| 93FW1565006 | SL | 8260 | Methylene chloride | 12.0 | 5.6 | ug/kg | B-O |
| 93FW1565006 | SL | 8260 | Naphthalene | ND | 5.6 | ug/kg | |
| 93FW1565006 | SL | 8260 | n-Propylbenzene | ND | 5.6 | ug/kg | |
| 93FW1565006 | SL | 8260 | Styrene | ND | 5.6 | ug/kg | |
| 93FW1565006 | SL | 8260 | 1,1,1,2-Tetrachloroethane | ND | 5.6 | ug/kg | |
| 93FW1565006 | SL | 8260 | 1,1,2,2,-Tetrachloroethane | ND | 5.6 | ug/kg | |
| 93FW1565006 | SL | 8260 | Tetrachloroethene | ND | 5.6 | ug/kg | |
| 93FW1565006 | SL | 8260 | 1,2,3-Trichlorobenzene | ND | 5.6 | ug/kg | |
| 93FW1565006 | SL | 8260 | 1,2,4-Trichlorobenzene | ND | 5.6 | ug/kg | |
| 93FW1565006 | SL | 8260 | 1,1,1-Trichloroethane | ND | 5.6 | ug/kg | |
| 93FW1565006 | SL | 8260 | 1,1,2-Trichloroethane | ND | 5.6 | ug/kg | |
| 93FW1565006 | SL | 8260 | Trichloroethene | ND | 5.6 | ug/kg | |
| 93FW1565006 | SL | 8260 | Trichlorofluoromethane | ND | 5.6 | ug/kg | |
| 93FW1565006 | SL | 8260 | 1,2,3-Trichloropropane | ND | 5.6 | ug/kg | |
| 93FW1565006 | SL | 8260 | 1.2.4-Trimethylbenzene | ND | 5.6 | ug/kg | |
| 93FW1565006 | SL | 8260 | 1,3,5-Trimethylbenzene | ND | 5.6 | ug/kg | |
| 93FW1565006 | SL | 8260 | Toulene | ND | 5.6 | ug/kg | |
| 93FW1565006 | SL | 8260 | Vinyl chloride | ND | 5.6 | ug/kg | |
| 93FW1565006 | SL | 8260 | o-Xylene | ND | 5.6 | ug/kg | |
| 93FW1565006 | SL | 8260 | m & p-Xylene | ND | 5.6 | ug/kg | |
| 93FW1565006 | SL | 8260 | SURROGATE RESULTS | - - | | | |
| 93FW1565006 | SL | 8260 | 4-Bromofluorobenzene (SURR) | 104.0 | | | |
| 93FW1565006 | SL | 8260 | Toluene-d8 (SURR) | 98.0 | | | |
| 93FW1565006 | SL | 8260 | 1,2-Dichloroethane-d4 (SURR) | 94.0 | | | |
| 93FW1565007 | SL | 8260 | Acetone | ND | 10.0 | ug/kg | |
| 93FW1565007 | SL | 8260 | Benzene | ND | 5.2 | ug/kg | |
| 93FW1565007 | SL | 8260 | Bromobenzene | ND | 5.2 | ug/kg | |
| 93FW1565007 | SL | 8260 | Bromochloromethane | ND | 5.2 | ug/kg | |
| 93FW1565007 | SL | 8260 | Bromodichloromethane | ND | 5.2 | ug/kg | |
| 93FW1565007 | SL | 8260 | Bromoform | ND | 5.2 | ug/kg | |
| 93FW1565007 | SL | 8260 | Bromomethane | ND | 5.2 | ug/kg | |
| 93FW1565007 | SL | 8260 | 2-Butanone | ND | 10.0 | ug/kg | |
| 93FW1565007 | SL | 8260 | n-Butylbenzene | ND | 5.2 | ug/kg | |
| 93FW1565007 | SL | 8260 | sec-Butylbenzene | ND | 5.2 | ug/kg | |

# 1993 Building 1565 Soil Data

| Sample Number | | Method | Chemical | Det Conc | Det Limit | Units | Flags |
|---|---|---|---|---|---|---|---|
| 93FW1565007 | SL | 8260 | tert-Butylbenzene | ND | 5.2 | ug/kg | |
| 93FW1565007 | SL | 8260 | Carbon Tetrachloride | ND | 5.2 | ug/kg | |
| 93FW1565007 | SL | 8260 | Chlorobenzene | ND | 5.2 | ug/kg | |
| 93FW1565007 | SL | 8260 | Chloroethane | ND | 5.2 | ug/kg | |
| 93FW1565007 | SL | 8260 | Chloroform | ND | 5.2 | ug/kg | |
| 93FW1565007 | SL | 8260 | Chloromethane | ND | 5.2 | ug/kg | |
| 93FW1565007 | SL | 8260 | 2-Chlorotoluene | ND | 5.2 | ug/kg | |
| 93FW1565007 | SL | 8260 | 4-Chlrortoluene | ND | 5.2 | ug/kg | |
| 93FW1565007 | SL | 8260 | 1,2-Dibromo-3-chloropropane | ND | 5.2 | ug/kg | |
| 93FW1565007 | SL | 8260 | 1,2-Dibromoethane | ND | 5.2 | ug/kg | |
| 93FW1565007 | SL | 8260 | Dibromochloromethane | ND | 5.2 | ug/kg | |
| 93FW1565007 | SL | 8260 | Dibromomethane | ND | 5.2 | ug/kg | |
| 93FW1565007 | SL | 8260 | 1,2-Dichlorobenzene | ND | 5.2 | ug/kg | |
| 93FW1565007 | SL | 8260 | 1,3-Dichlorobenzene | ND | 5.2 | ug/kg | |
| 93FW1565007 | SL | 8260 | 1.4-Dibhlorobenzene | ND | 5.2 | ug/kg | |
| 93FW1565007 | SL | 8260 | Dichlorodifluoromethane | ND | 5.2 | ug/kg | |
| 93FW1565007 | SL | 8260 | 1,1-Dichloroethane | ND | 5.2 | ug/kg | |
| 93FW1565007 | SL | 8260 | 1,2-Dichloroethane | ND | 5.2 | ug/kg | |
| 93FW1565007 | SL | 8260 | 1,1-Dichloroethene | ND | 5.2 | ug/kg | |
| 93FW1565007 | SL | 8260 | cis-1,2-Dichloroethene | ND | 5.2 | ug/kg | |
| 93FW1565007 | SL | 8260 | trans-1,2-Dichloroethene | ND | 5.2 | ug/kg | |
| 93FW1565007 | SL | 8260 | 1,2-Dichloropropane | ND | 5.2 | ug/kg | |
| 93FW1565007 | SL | 8260 | 1,3-Dichloropropane | ND | 5.2 | ug/kg | |
| 93FW1565007 | SL | 8260 | 2,2-Dichloropropane | ND | 5.2 | ug/kg | |
| 93FW1565007 | SL | 8260 | trans-1,3-Dichloropropene | ND | 5.2 | ug/kg | |
| 93FW1565007 | SL | 8260 | 1,1-Dichloropropene | ND | 5.2 | ug/kg | |
| 93FW1565007 | SL | 8260 | cis-1,3-Dichloropropene | ND | 5.2 | ug/kg | |
| 93FW1565007 | SL | 8260 | Ethyl benzene | ND | 5.2 | ug/kg | |
| 93FW1565007 | SL | 8260 | Hexachlorobutadiene | ND | 5.2 | ug/kg | |
| 93FW1565007 | SL | 8260 | Isopropylbenzene | ND | 5.2 | ug/kg | |
| 93FW1565007 | SL | 8260 | p-Isopropyltoluene | ND | 5.2 | ug/kg | |
| 93FW1565007 | SL | 8260 | Methylene chloride | 9.3 | 5.2 | ug/kg | B-O |
| 93FW1565007 | SL | 8260 | Naphthalene | ND | 5.2 | ug/kg | |
| 93FW1565007 | SL | 8260 | n-Propylbenzene | ND | 5.2 | ug/kg | |
| 93FW1565007 | SL | 8260 | Styrene | ND | 5.2 | ug/kg | |
| 93FW1565007 | SL | 8260 | 1,1,1,2-Tetrachloroethane | ND | 5.2 | ug/kg | |
| 93FW1565007 | SL | 8260 | 1,1,2,2,-Tetrachloroethane | ND | 5.2 | ug/kg | |
| 93FW1565007 | SL | 8260 | Tetrachloroethene | ND | 5.2 | ug/kg | |
| 93FW1565007 | SL | 8260 | 1,2,3-Trichlorobenzene | ND | 5.2 | ug/kg | |
| 93FW1565007 | SL | 8260 | 1,2,4-Trichlorobenzene | ND | 5.2 | ug/kg | |
| 93FW1565007 | SL | 8260 | 1,1,1-Trichloroethane | ND | 5.2 | ug/kg | |
| 93FW1565007 | SL | 8260 | 1,1,2-Trichloroethane | ND | 5.2 | ug/kg | |
| 93FW1565007 | SL | 8260 | Trichloroethene | ND | 5.2 | ug/kg | |
| 93FW1565007 | SL | 8260 | Trichlorofluoromethane | ND | 5.2 | ug/kg | |
| 93FW1565007 | SL | 8260 | 1,2,3-Trichloropropane | ND | 5.2 | ug/kg | |
| 93FW1565007 | SL | 8260 | 1.2.4-Trimethylbenzene | ND | 5.2 | ug/kg | |
| 93FW1565007 | SL | 8260 | 1,3,5-Trimethylbenzene | ND | 5.2 | ug/kg | |
| 93FW1565007 | SL | 8260 | Toulene | ND | 5.2 | ug/kg | |
| 93FW1565007 | SL | 8260 | Vinyl chloride | ND | 5.2 | ug/kg | |
| 93FW1565007 | SL | 8260 | o-Xylene | ND | 5.2 | ug/kg | |
| 93FW1565007 | SL | 8260 | m & p-Xylene | ND | 5.2 | ug/kg | |
| 93FW1565007 | SL | 8260 | SURROGATE RESULTS | - - | | | |
| 93FW1565007 | SL | 8260 | 4-Bromofluorobenzene (SURR) | 108.0 | | | |
| 93FW1565007 | SL | 8260 | Toluene-d8 (SURR) | 98.0 | | | |
| 93FW1565007 | SL | 8260 | 1,2-Dichloroethane-d4 (SURR) | 95.0 | | | |
| 93FW1565008 | SL | 8260 | Acetone | ND | 13.0 | ug/kg | |
| 93FW1565008 | SL | 8260 | Benzene | ND | 6.7 | ug/kg | |
| 93FW1565008 | SL | 8260 | Bromobenzene | ND | 6.7 | ug/kg | |
| 93FW1565008 | SL | 8260 | Bromochloromethane | ND | 6.7 | ug/kg | |
| 93FW1565008 | SL | 8260 | Bromodichloromethane | ND | 6.7 | ug/kg | |
| 93FW1565008 | SL | 8260 | Bromoform | ND | 6.7 | ug/kg | |
| 93FW1565008 | SL | 8260 | Bromomethane | ND | 6.7 | ug/kg | |
| 93FW1565008 | SL | 8260 | 2-Butanone | ND | 13.0 | ug/kg | |
| 93FW1565008 | SL | 8260 | n-Butylbenzene | ND | 6.7 | ug/kg | |
| 93FW1565008 | SL | 8260 | sec-Butylbenzene | ND | 6.7 | ug/kg | |
| 93FW1565008 | SL | 8260 | tert-Butylbenzene | ND | 6.7 | ug/kg | |
| 93FW1565008 | SL | 8260 | Carbon Tetrachloride | ND | 6.7 | ug/kg | |
| 93FW1565008 | SL | 8260 | Chlorobenzene | ND | 6.7 | ug/kg | |

# 1993 Building 1565 Soil Data

| Sample Number | | Method | Chemical | Det Conc | Det Limit | Units | Flags |
|---|---|---|---|---|---|---|---|
| 93FW1565008 | SL | 8260 | Chloroethane | ND | 6.7 | ug/kg | |
| 93FW1565008 | SL | 8260 | Chloroform | ND | 6.7 | ug/kg | |
| 93FW1565008 | SL | 8260 | Chloromethane | ND | 6.7 | ug/kg | |
| 93FW1565008 | SL | 8260 | 2-Chlorotoluene | ND | 6.7 | ug/kg | |
| 93FW1565008 | SL | 8260 | 4-Chlrortoluene | ND | 6.7 | ug/kg | |
| 93FW1565008 | SL | 8260 | 1,2-Dibromo-3-chloropropane | ND | 6.7 | ug/kg | |
| 93FW1565008 | SL | 8260 | 1,2-Dibromoethane | ND | 6.7 | ug/kg | |
| 93FW1565008 | SL | 8260 | Dibromochloromethane | ND | 6.7 | ug/kg | |
| 93FW1565008 | SL | 8260 | Dibromomethane | ND | 6.7 | ug/kg | |
| 93FW1565008 | SL | 8260 | 1,2-Dichlorobenzene | ND | 6.7 | ug/kg | |
| 93FW1565008 | SL | 8260 | 1,3-Dichlorobenzene | ND | 6.7 | ug/kg | |
| 93FW1565008 | SL | 8260 | 1.4-Dibhlorobenzene | ND | 6.7 | ug/kg | |
| 93FW1565008 | SL | 8260 | Dichlorodifluoromethane | ND | 6.7 | ug/kg | |
| 93FW1565008 | SL | 8260 | 1,1-Dichloroethane | ND | 6.7 | ug/kg | |
| 93FW1565008 | SL | 8260 | 1,2-Dichloroethane | ND | 6.7 | ug/kg | |
| 93FW1565008 | SL | 8260 | 1,1-Dichloroethene | ND | 6.7 | ug/kg | |
| 93FW1565008 | SL | 8260 | cis-1,2-Dichloroethene | ND | 6.7 | ug/kg | |
| 93FW1565008 | SL | 8260 | trans-1,2-Dichloroethene | ND | 6.7 | ug/kg | |
| 93FW1565008 | SL | 8260 | 1,2-Dichloropropane | ND | 6.7 | ug/kg | |
| 93FW1565008 | SL | 8260 | 1,3-Dichloropropane | ND | 6.7 | ug/kg | |
| 93FW1565008 | SL | 8260 | 2,2-Dichloropropane | ND | 6.7 | ug/kg | |
| 93FW1565008 | SL | 8260 | trans-1,3-Dichloropropene | ND | 6.7 | ug/kg | |
| 93FW1565008 | SL | 8260 | 1,1-Dichloropropene | ND | 6.7 | ug/kg | |
| 93FW1565008 | SL | 8260 | cis-1,3-Dichloropropene | ND | 6.7 | ug/kg | |
| 93FW1565008 | SL | 8260 | Ethyl benzene | ND | 6.7 | ug/kg | |
| 93FW1565008 | SL | 8260 | Hexachlorobutadiene | ND | 6.7 | ug/kg | |
| 93FW1565008 | SL | 8260 | Isopropylbenzene | ND | 6.7 | ug/kg | |
| 93FW1565008 | SL | 8260 | p-Isopropyltoluene | ND | 6.7 | ug/kg | |
| 93FW1565008 | SL | 8260 | Methylene chloride | 15.0 | 6.7 | ug/kg | B-O |
| 93FW1565008 | SL | 8260 | Naphthalene | ND | 6.7 | ug/kg | |
| 93FW1565008 | SL | 8260 | n-Propylbenzene | ND | 6.7 | ug/kg | |
| 93FW1565008 | SL | 8260 | Styrene | ND | 6.7 | ug/kg | |
| 93FW1565008 | SL | 8260 | 1,1,1,2-Tetrachloroethane | ND | 6.7 | ug/kg | |
| 93FW1565008 | SL | 8260 | 1,1,2,2,-Tetrachloroethane | ND | 6.7 | ug/kg | |
| 93FW1565008 | SL | 8260 | Tetrachloroethene | ND | 6.7 | ug/kg | |
| 93FW1565008 | SL | 8260 | 1,2,3-Trichlorobenzene | ND | 6.7 | ug/kg | |
| 93FW1565008 | SL | 8260 | 1,2,4-Trichlorobenzene | ND | 6.7 | ug/kg | |
| 93FW1565008 | SL | 8260 | 1,1,1-Trichloroethane | ND | 6.7 | ug/kg | |
| 93FW1565008 | SL | 8260 | 1,1,2-Trichloroethane | ND | 6.7 | ug/kg | |
| 93FW1565008 | SL | 8260 | Trichloroethene | ND | 6.7 | ug/kg | |
| 93FW1565008 | SL | 8260 | Trichlorofluoromethane | ND | 6.7 | ug/kg | |
| 93FW1565008 | SL | 8260 | 1,2,3-Trichloropropane | ND | 6.7 | ug/kg | |
| 93FW1565008 | SL | 8260 | 1.2.4-Trimethylbenzene | ND | 6.7 | ug/kg | |
| 93FW1565008 | SL | 8260 | 1,3,5-Trimethylbenzene | ND | 6.7 | ug/kg | |
| 93FW1565008 | SL | 8260 | Toulene | ND | 6.7 | ug/kg | |
| 93FW1565008 | SL | 8260 | Vinyl chloride | ND | 6.7 | ug/kg | |
| 93FW1565008 | SL | 8260 | o-Xylene | ND | 6.7 | ug/kg | |
| 93FW1565008 | SL | 8260 | m & p-Xylene | ND | 6.7 | ug/kg | |
| 93FW1565008 | SL | 8260 | SURROGATE RESULTS | - - | | | |
| 93FW1565008 | SL | 8260 | 4-Bromofluorobenzene (SURR) | 108.0 | | | |
| 93FW1565008 | SL | 8260 | Toluene-d8 (SURR) | 98.0 | | | |
| 93FW1565008 | SL | 8260 | 1,2-Dichloroethane-d4 (SURR) | 98.0 | | | |
| 93FW1565009 | SL | 8260 | Acetone | ND | 12.0 | ug/kg | |
| 93FW1565009 | SL | 8260 | Benzene | ND | 6.1 | ug/kg | |
| 93FW1565009 | SL | 8260 | Bromobenzene | ND | 6.1 | ug/kg | |
| 93FW1565009 | SL | 8260 | Bromochloromethane | ND | 6.1 | ug/kg | |
| 93FW1565009 | SL | 8260 | Bromodichloromethane | ND | 6.1 | ug/kg | |
| 93FW1565009 | SL | 8260 | Bromoform | ND | 6.1 | ug/kg | |
| 93FW1565009 | SL | 8260 | Bromomethane | ND | 6.1 | ug/kg | |
| 93FW1565009 | SL | 8260 | 2-Butanone | ND | 12.0 | ug/kg | |
| 93FW1565009 | SL | 8260 | n-Butylbenzene | ND | 6.1 | ug/kg | |
| 93FW1565009 | SL | 8260 | sec-Butylbenzene | ND | 6.1 | ug/kg | |
| 93FW1565009 | SL | 8260 | tert-Butylbenzene | ND | 6.1 | ug/kg | |
| 93FW1565009 | SL | 8260 | Carbon Tetrachloride | ND | 6.1 | ug/kg | |
| 93FW1565009 | SL | 8260 | Chlorobenzene | ND | 6.1 | ug/kg | |
| 93FW1565009 | SL | 8260 | Chloroethane | ND | 6.1 | ug/kg | |
| 93FW1565009 | SL | 8260 | Chloroform | ND | 6.1 | ug/kg | |
| 93FW1565009 | SL | 8260 | Chloromethane | ND | 6.1 | ug/kg | |

# 1993 Building 1565 Soil Data

| Sample Number | | Method | Chemical | Det Conc | Det Limit | Units | Flags |
|---|---|---|---|---|---|---|---|
| 93FW1565009 | SL | 8260 | 2-Chlorotoluene | ND | 6.1 | ug/kg | |
| 93FW1565009 | SL | 8260 | 4-Chlrortoluene | ND | 6.1 | ug/kg | |
| 93FW1565009 | SL | 8260 | 1,2-Dibromo-3-chloropropane | ND | 6.1 | ug/kg | |
| 93FW1565009 | SL | 8260 | 1,2-Dibromoethane | ND | 6.1 | ug/kg | |
| 93FW1565009 | SL | 8260 | Dibromochloromethane | ND | 6.1 | ug/kg | |
| 93FW1565009 | SL | 8260 | Dibromomethane | ND | 6.1 | ug/kg | |
| 93FW1565009 | SL | 8260 | 1,2-Dichlorobenzene | ND | 6.1 | ug/kg | |
| 93FW1565009 | SL | 8260 | 1,3-Dichlorobenzene | ND | 6.1 | ug/kg | |
| 93FW1565009 | SL | 8260 | 1.4-Dibhlorobenzene | ND | 6.1 | ug/kg | |
| 93FW1565009 | SL | 8260 | Dichlorodifluoromethane | ND | 6.1 | ug/kg | |
| 93FW1565009 | SL | 8260 | 1,1-Dichloroethane | ND | 6.1 | ug/kg | |
| 93FW1565009 | SL | 8260 | 1,2-Dichloroethane | ND | 6.1 | ug/kg | |
| 93FW1565009 | SL | 8260 | 1,1-Dichloroethene | ND | 6.1 | ug/kg | |
| 93FW1565009 | SL | 8260 | cis-1,2-Dichloroethene | ND | 6.1 | ug/kg | |
| 93FW1565009 | SL | 8260 | trans-1,2-Dichloroethene | ND | 6.1 | ug/kg | |
| 93FW1565009 | SL | 8260 | 1,2-Dichloropropane | ND | 6.1 | ug/kg | |
| 93FW1565009 | SL | 8260 | 1,3-Dichloropropane | ND | 6.1 | ug/kg | |
| 93FW1565009 | SL | 8260 | 2,2-Dichloropropane | ND | 6.1 | ug/kg | |
| 93FW1565009 | SL | 8260 | trans-1,3-Dichloropropene | ND | 6.1 | ug/kg | |
| 93FW1565009 | SL | 8260 | 1,1-Dichloropropene | ND | 6.1 | ug/kg | |
| 93FW1565009 | SL | 8260 | cis-1,3-Dichloropropene | ND | 6.1 | ug/kg | |
| 93FW1565009 | SL | 8260 | Ethyl benzene | ND | 6.1 | ug/kg | |
| 93FW1565009 | SL | 8260 | Hexachlorobutadiene | ND | 6.1 | ug/kg | |
| 93FW1565009 | SL | 8260 | Isopropylbenzene | ND | 6.1 | ug/kg | |
| 93FW1565009 | SL | 8260 | p-Isopropyltoluene | ND | 6.1 | ug/kg | |
| 93FW1565009 | SL | 8260 | Methylene chloride | 13.0 | 6.1 | ug/kg | B-O |
| 93FW1565009 | SL | 8260 | Naphthalene | ND | 6.1 | ug/kg | |
| 93FW1565009 | SL | 8260 | n-Propylbenzene | ND | 6.1 | ug/kg | |
| 93FW1565009 | SL | 8260 | Styrene | ND | 6.1 | ug/kg | |
| 93FW1565009 | SL | 8260 | 1,1,1,2-Tetrachloroethane | ND | 6.1 | ug/kg | |
| 93FW1565009 | SL | 8260 | 1,1,2,2,-Tetrachloroethane | ND | 6.1 | ug/kg | |
| 93FW1565009 | SL | 8260 | Tetrachloroethene | ND | 6.1 | ug/kg | |
| 93FW1565009 | SL | 8260 | 1,2,3-Trichlorobenzene | ND | 6.1 | ug/kg | |
| 93FW1565009 | SL | 8260 | 1,2,4-Trichlorobenzene | ND | 6.1 | ug/kg | |
| 93FW1565009 | SL | 8260 | 1,1,1-Trichloroethane | ND | 6.1 | ug/kg | |
| 93FW1565009 | SL | 8260 | 1,1,2-Trichloroethane | ND | 6.1 | ug/kg | |
| 93FW1565009 | SL | 8260 | Trichloroethene | ND | 6.1 | ug/kg | |
| 93FW1565009 | SL | 8260 | Trichlorofluoromethane | ND | 6.1 | ug/kg | |
| 93FW1565009 | SL | 8260 | 1,2,3-Trichloropropane | ND | 6.1 | ug/kg | |
| 93FW1565009 | SL | 8260 | 1.2.4-Trimethylbenzene | ND | 6.1 | ug/kg | |
| 93FW1565009 | SL | 8260 | 1,3,5-Trimethylbenzene | ND | 6.1 | ug/kg | |
| 93FW1565009 | SL | 8260 | Toulene | ND | 6.1 | ug/kg | |
| 93FW1565009 | SL | 8260 | Vinyl chloride | ND | 6.1 | ug/kg | |
| 93FW1565009 | SL | 8260 | o-Xylene | ND | 6.1 | ug/kg | |
| 93FW1565009 | SL | 8260 | m & p-Xylene | ND | 6.1 | ug/kg | |
| 93FW1565009 | SL | 8260 | SURROGATE RESULTS | - - | | | |
| 93FW1565009 | SL | 8260 | 4-Bromofluorobenzene (SURR) | 104.0 | | | |
| 93FW1565009 | SL | 8260 | Toluene-d8 (SURR) | 98.0 | | | |
| 93FW1565009 | SL | 8260 | 1,2-Dichloroethane-d4 (SURR) | 95.0 | | | |
| 93FW1565010 | SL | 418.1 | TRPH | 78.0 | 11.0 | mg/kg | |
| 93FW1565010 | SL | 7421 | Lead (GFAA) | 5.2 | 0.2 | mg/kg | |
| 93FW1565010 | SL | 8015M | Gasoline Range Organics | ND | 1.2 | mg/kg | |
| 93FW1565010 | SL | 8015M | SURROGATE RESULTS | - - | | | |
| 93FW1565010 | SL | 8015M | Bromofluorobenzene (SURR) | 82.0 | | | |
| 93FW1565010 | SL | 8100M | Diesel Range Organics | 27.0 | 4.5 | mg/kg | B-O |
| 93FW1565010 | SL | 8100M | SURROGATE RESULTS | - - | | | |
| 93FW1565010 | SL | 8100M | Ortho-terphenyl (SURR) | 100.0 | | | |
| 93FW1565010 | SL | 8260 | Acetone | ND | 12.0 | ug/kg | |
| 93FW1565010 | SL | 8260 | Benzene | ND | 5.9 | ug/kg | |
| 93FW1565010 | SL | 8260 | Bromobenzene | ND | 5.9 | ug/kg | |
| 93FW1565010 | SL | 8260 | Bromochloromethane | ND | 5.9 | ug/kg | |
| 93FW1565010 | SL | 8260 | Bromodichloromethane | ND | 5.9 | ug/kg | |
| 93FW1565010 | SL | 8260 | Bromoform | ND | 5.9 | ug/kg | |
| 93FW1565010 | SL | 8260 | Bromomethane | ND | 5.9 | ug/kg | |
| 93FW1565010 | SL | 8260 | 2-Butanone | ND | 12.0 | ug/kg | |
| 93FW1565010 | SL | 8260 | n-Butylbenzene | ND | 5.9 | ug/kg | |
| 93FW1565010 | SL | 8260 | sec-Butylbenzene | ND | 5.9 | ug/kg | |
| 93FW1565010 | SL | 8260 | tert-Butylbenzene | ND | 5.9 | ug/kg | |

# 1993 Building 1565 Soil Data

| Sample Number | | Method | Chemical | Det Conc | Det Limit | Units | Flags |
|---|---|---|---|---|---|---|---|
| 93FW1565010 | SL | 8260 | Carbon Tetrachloride | ND | 5.9 | ug/kg | |
| 93FW1565010 | SL | 8260 | Chlorobenzene | ND | 5.9 | ug/kg | |
| 93FW1565010 | SL | 8260 | Chloroethane | ND | 5.9 | ug/kg | |
| 93FW1565010 | SL | 8260 | Chloroform | ND | 5.9 | ug/kg | |
| 93FW1565010 | SL | 8260 | Chloromethane | ND | 5.9 | ug/kg | |
| 93FW1565010 | SL | 8260 | 2-Chlorotoluene | ND | 5.9 | ug/kg | |
| 93FW1565010 | SL | 8260 | 4-Chlrortoluene | ND | 5.9 | ug/kg | |
| 93FW1565010 | SL | 8260 | 1,2-Dibromo-3-chloropropane | ND | 5.9 | ug/kg | |
| 93FW1565010 | SL | 8260 | 1,2-Dibromoethane | ND | 5.9 | ug/kg | |
| 93FW1565010 | SL | 8260 | Dibromochloromethane | ND | 5.9 | ug/kg | |
| 93FW1565010 | SL | 8260 | Dibromomethane | ND | 5.9 | ug/kg | |
| 93FW1565010 | SL | 8260 | 1,2-Dichlorobenzene | ND | 5.9 | ug/kg | |
| 93FW1565010 | SL | 8260 | 1,3-Dichlorobenzene | ND | 5.9 | ug/kg | |
| 93FW1565010 | SL | 8260 | 1.4-Dibhlorobenzene | ND | 5.9 | ug/kg | |
| 93FW1565010 | SL | 8260 | Dichlorodifluoromethane | ND | 5.9 | ug/kg | |
| 93FW1565010 | SL | 8260 | 1,1-Dichloroethane | ND | 5.9 | ug/kg | |
| 93FW1565010 | SL | 8260 | 1,2-Dichloroethane | ND | 5.9 | ug/kg | |
| 93FW1565010 | SL | 8260 | 1,1-Dichloroethene | ND | 5.9 | ug/kg | |
| 93FW1565010 | SL | 8260 | cis-1,2-Dichloroethene | ND | 5.9 | ug/kg | |
| 93FW1565010 | SL | 8260 | trans-1,2-Dichloroethene | ND | 5.9 | ug/kg | |
| 93FW1565010 | SL | 8260 | 1,2-Dichloropropane | ND | 5.9 | ug/kg | |
| 93FW1565010 | SL | 8260 | 1,3-Dichloropropane | ND | 5.9 | ug/kg | |
| 93FW1565010 | SL | 8260 | 2,2-Dichloropropane | ND | 5.9 | ug/kg | |
| 93FW1565010 | SL | 8260 | trans-1,3-Dichloropropene | ND | 5.9 | ug/kg | |
| 93FW1565010 | SL | 8260 | 1,1-Dichloropropene | ND | 5.9 | ug/kg | |
| 93FW1565010 | SL | 8260 | cis-1,3-Dichloropropene | ND | 5.9 | ug/kg | |
| 93FW1565010 | SL | 8260 | Ethyl benzene | ND | 5.9 | ug/kg | |
| 93FW1565010 | SL | 8260 | Hexachlorobutadiene | ND | 5.9 | ug/kg | |
| 93FW1565010 | SL | 8260 | Isopropylbenzene | ND | 5.9 | ug/kg | |
| 93FW1565010 | SL | 8260 | p-Isopropyltoluene | ND | 5.9 | ug/kg | |
| 93FW1565010 | SL | 8260 | Methylene chloride | 9.8 | 5.9 | ug/kg | B-O |
| 93FW1565010 | SL | 8260 | Naphthalene | ND | 5.9 | ug/kg | |
| 93FW1565010 | SL | 8260 | n-Propylbenzene | ND | 5.9 | ug/kg | |
| 93FW1565010 | SL | 8260 | Styrene | ND | 5.9 | ug/kg | |
| 93FW1565010 | SL | 8260 | 1,1,1,2-Tetrachloroethane | ND | 5.9 | ug/kg | |
| 93FW1565010 | SL | 8260 | 1,1,2,2,-Tetrachloroethane | ND | 5.9 | ug/kg | |
| 93FW1565010 | SL | 8260 | Tetrachloroethene | ND | 5.9 | ug/kg | |
| 93FW1565010 | SL | 8260 | 1,2,3-Trichlorobenzene | ND | 5.9 | ug/kg | |
| 93FW1565010 | SL | 8260 | 1,2,4-Trichlorobenzene | ND | 5.9 | ug/kg | |
| 93FW1565010 | SL | 8260 | 1,1,1-Trichloroethane | ND | 5.9 | ug/kg | |
| 93FW1565010 | SL | 8260 | 1,1,2-Trichloroethane | ND | 5.9 | ug/kg | |
| 93FW1565010 | SL | 8260 | Trichloroethene | ND | 5.9 | ug/kg | |
| 93FW1565010 | SL | 8260 | Trichlorofluoromethane | ND | 5.9 | ug/kg | |
| 93FW1565010 | SL | 8260 | 1,2,3-Trichloropropane | ND | 5.9 | ug/kg | |
| 93FW1565010 | SL | 8260 | 1.2.4-Trimethylbenzene | ND | 5.9 | ug/kg | |
| 93FW1565010 | SL | 8260 | 1,3,5-Trimethylbenzene | ND | 5.9 | ug/kg | |
| 93FW1565010 | SL | 8260 | Toulene | ND | 5.9 | ug/kg | |
| 93FW1565010 | SL | 8260 | Vinyl chloride | ND | 5.9 | ug/kg | |
| 93FW1565010 | SL | 8260 | o-Xylene | ND | 5.9 | ug/kg | |
| 93FW1565010 | SL | 8260 | m & p-Xylene | ND | 5.9 | ug/kg | |
| 93FW1565010 | SL | 8260 | SURROGATE RESULTS | - - | | | |
| 93FW1565010 | SL | 8260 | 4-Bromofluorobenzene (SURR) | 138.0 | | | |
| 93FW1565010 | SL | 8260 | Toluene-d8 (SURR) | 103.0 | | | |
| 93FW1565010 | SL | 8260 | 1,2-Dichloroethane-d4 (SURR) | 105.0 | | | |
| 93FW1565011 | SL | 8260 | Acetone | ND | 10.0 | ug/kg | |
| 93FW1565011 | SL | 8260 | Benzene | ND | 5.1 | ug/kg | |
| 93FW1565011 | SL | 8260 | Bromobenzene | ND | 5.1 | ug/kg | |
| 93FW1565011 | SL | 8260 | Bromochloromethane | ND | 5.1 | ug/kg | |
| 93FW1565011 | SL | 8260 | Bromodichloromethane | ND | 5.1 | ug/kg | |
| 93FW1565011 | SL | 8260 | Bromoform | ND | 5.1 | ug/kg | |
| 93FW1565011 | SL | 8260 | Bromomethane | ND | 5.1 | ug/kg | |
| 93FW1565011 | SL | 8260 | 2-Butanone | ND | 10.0 | ug/kg | |
| 93FW1565011 | SL | 8260 | n-Butylbenzene | ND | 5.1 | ug/kg | |
| 93FW1565011 | SL | 8260 | sec-Butylbenzene | ND | 5.1 | ug/kg | |
| 93FW1565011 | SL | 8260 | tert-Butylbenzene | ND | 5.1 | ug/kg | |
| 93FW1565011 | SL | 8260 | Carbon Tetrachloride | ND | 5.1 | ug/kg | |
| 93FW1565011 | SL | 8260 | Chlorobenzene | ND | 5.1 | ug/kg | |
| 93FW1565011 | SL | 8260 | Chloroethane | ND | 5.1 | ug/kg | |

# 1993 Building 1565 Soil Data

| Sample Number | | Method | Chemical | Det Conc | Det Limit | Units | Flags |
|---|---|---|---|---|---|---|---|
| 93FW1565011 | SL | 8260 | Chloroform | ND | 5.1 | ug/kg | |
| 93FW1565011 | SL | 8260 | Chloromethane | ND | 5.1 | ug/kg | |
| 93FW1565011 | SL | 8260 | 2-Chlorotoluene | ND | 5.1 | ug/kg | |
| 93FW1565011 | SL | 8260 | 4-Chlrortoluene | ND | 5.1 | ug/kg | |
| 93FW1565011 | SL | 8260 | 1,2-Dibromo-3-chloropropane | ND | 5.1 | ug/kg | |
| 93FW1565011 | SL | 8260 | 1,2-Dibromoethane | ND | 5.1 | ug/kg | |
| 93FW1565011 | SL | 8260 | Dibromochloromethane | ND | 5.1 | ug/kg | |
| 93FW1565011 | SL | 8260 | Dibromomethane | ND | 5.1 | ug/kg | |
| 93FW1565011 | SL | 8260 | 1,2-Dichlorobenzene | ND | 5.1 | ug/kg | |
| 93FW1565011 | SL | 8260 | 1,3-Dichlorobenzene | ND | 5.1 | ug/kg | |
| 93FW1565011 | SL | 8260 | 1.4-Dibhlorobenzene | ND | 5.1 | ug/kg | |
| 93FW1565011 | SL | 8260 | Dichlorodifluoromethane | ND | 5.1 | ug/kg | |
| 93FW1565011 | SL | 8260 | 1,1-Dichloroethane | ND | 5.1 | ug/kg | |
| 93FW1565011 | SL | 8260 | 1,2-Dichloroethane | ND | 5.1 | ug/kg | |
| 93FW1565011 | SL | 8260 | 1,1-Dichloroethene | ND | 5.1 | ug/kg | |
| 93FW1565011 | SL | 8260 | cis-1,2-Dichloroethene | ND | 5.1 | ug/kg | |
| 93FW1565011 | SL | 8260 | trans-1,2-Dichloroethene | ND | 5.1 | ug/kg | |
| 93FW1565011 | SL | 8260 | 1,2-Dichloropropane | ND | 5.1 | ug/kg | |
| 93FW1565011 | SL | 8260 | 1,3-Dichloropropane | ND | 5.1 | ug/kg | |
| 93FW1565011 | SL | 8260 | 2,2-Dichloropropane | ND | 5.1 | ug/kg | |
| 93FW1565011 | SL | 8260 | trans-1,3-Dichloropropene | ND | 5.1 | ug/kg | |
| 93FW1565011 | SL | 8260 | 1,1-Dichloropropene | ND | 5.1 | ug/kg | |
| 93FW1565011 | SL | 8260 | cis-1,3-Dichloropropene | ND | 5.1 | ug/kg | |
| 93FW1565011 | SL | 8260 | Ethyl benzene | ND | 5.1 | ug/kg | |
| 93FW1565011 | SL | 8260 | Hexachlorobutadiene | ND | 5.1 | ug/kg | |
| 93FW1565011 | SL | 8260 | Isopropylbenzene | ND | 5.1 | ug/kg | |
| 93FW1565011 | SL | 8260 | p-Isopropyltoluene | ND | 5.1 | ug/kg | |
| 93FW1565011 | SL | 8260 | Methylene chloride | 6.8 | 5.1 | ug/kg | B-O |
| 93FW1565011 | SL | 8260 | Naphthalene | ND | 5.1 | ug/kg | |
| 93FW1565011 | SL | 8260 | n-Propylbenzene | ND | 5.1 | ug/kg | |
| 93FW1565011 | SL | 8260 | Styrene | ND | 5.1 | ug/kg | |
| 93FW1565011 | SL | 8260 | 1,1,1,2-Tetrachloroethane | ND | 5.1 | ug/kg | |
| 93FW1565011 | SL | 8260 | 1,1,2,2,-Tetrachloroethane | ND | 5.1 | ug/kg | |
| 93FW1565011 | SL | 8260 | Tetrachloroethene | ND | 5.1 | ug/kg | |
| 93FW1565011 | SL | 8260 | 1,2,3-Trichlorobenzene | ND | 5.1 | ug/kg | |
| 93FW1565011 | SL | 8260 | 1,2,4-Trichlorobenzene | ND | 5.1 | ug/kg | |
| 93FW1565011 | SL | 8260 | 1,1,1-Trichloroethane | ND | 5.1 | ug/kg | |
| 93FW1565011 | SL | 8260 | 1,1,2-Trichloroethane | ND | 5.1 | ug/kg | |
| 93FW1565011 | SL | 8260 | Trichloroethene | ND | 5.1 | ug/kg | |
| 93FW1565011 | SL | 8260 | Trichlorofluoromethane | ND | 5.1 | ug/kg | |
| 93FW1565011 | SL | 8260 | 1,2,3-Trichloropropane | ND | 5.1 | ug/kg | |
| 93FW1565011 | SL | 8260 | 1.2.4-Trimethylbenzene | ND | 5.1 | ug/kg | |
| 93FW1565011 | SL | 8260 | 1,3,5-Trimethylbenzene | ND | 5.1 | ug/kg | |
| 93FW1565011 | SL | 8260 | Toulene | ND | 5.1 | ug/kg | |
| 93FW1565011 | SL | 8260 | Vinyl chloride | ND | 5.1 | ug/kg | |
| 93FW1565011 | SL | 8260 | o-Xylene | ND | 5.1 | ug/kg | |
| 93FW1565011 | SL | 8260 | m & p-Xylene | ND | 5.1 | ug/kg | |
| 93FW1565011 | SL | 8260 | SURROGATE RESULTS | - - | | | |
| 93FW1565011 | SL | 8260 | 4-Bromofluorobenzene (SURR) | 118.0 | | | |
| 93FW1565011 | SL | 8260 | Toluene-d8 (SURR) | 63.0 | | | |
| 93FW1565011 | SL | 8260 | 1,2-Dichloroethane-d4 (SURR) | 98.0 | | | |
| 93FW1565012 | SL | 8260 | Acetone | ND | 11.0 | ug/kg | |
| 93FW1565012 | SL | 8260 | Benzene | ND | 5.5 | ug/kg | |
| 93FW1565012 | SL | 8260 | Bromobenzene | ND | 5.5 | ug/kg | |
| 93FW1565012 | SL | 8260 | Bromochloromethane | ND | 5.5 | ug/kg | |
| 93FW1565012 | SL | 8260 | Bromodichloromethane | ND | 5.5 | ug/kg | |
| 93FW1565012 | SL | 8260 | Bromoform | ND | 5.5 | ug/kg | |
| 93FW1565012 | SL | 8260 | Bromomethane | ND | 5.5 | ug/kg | |
| 93FW1565012 | SL | 8260 | 2-Butanone | ND | 11.0 | ug/kg | |
| 93FW1565012 | SL | 8260 | n-Butylbenzene | ND | 5.5 | ug/kg | |
| 93FW1565012 | SL | 8260 | sec-Butylbenzene | ND | 5.5 | ug/kg | |
| 93FW1565012 | SL | 8260 | tert-Butylbenzene | ND | 5.5 | ug/kg | |
| 93FW1565012 | SL | 8260 | Carbon Tetrachloride | ND | 5.5 | ug/kg | |
| 93FW1565012 | SL | 8260 | Chlorobenzene | ND | 5.5 | ug/kg | |
| 93FW1565012 | SL | 8260 | Chloroethane | ND | 5.5 | ug/kg | |
| 93FW1565012 | SL | 8260 | Chloroform | ND | 5.5 | ug/kg | |
| 93FW1565012 | SL | 8260 | Chloromethane | ND | 5.5 | ug/kg | |
| 93FW1565012 | SL | 8260 | 2-Chlorotoluene | ND | 5.5 | ug/kg | |

# 1993 Building 1565 Soil Data

| Sample Number | | Method | Chemical | Det Conc | Det Limit | Units | Flags |
|---|---|---|---|---|---|---|---|
| 93FW1565012 | SL | 8260 | 4-Chlrortoluene | ND | 5.5 | ug/kg | |
| 93FW1565012 | SL | 8260 | 1,2-Dibromo-3-chloropropane | ND | 5.5 | ug/kg | |
| 93FW1565012 | SL | 8260 | 1,2-Dibromoethane | ND | 5.5 | ug/kg | |
| 93FW1565012 | SL | 8260 | Dibromochloromethane | ND | 5.5 | ug/kg | |
| 93FW1565012 | SL | 8260 | Dibromomethane | ND | 5.5 | ug/kg | |
| 93FW1565012 | SL | 8260 | 1,2-Dichlorobenzene | ND | 5.5 | ug/kg | |
| 93FW1565012 | SL | 8260 | 1,3-Dichlorobenzene | ND | 5.5 | ug/kg | |
| 93FW1565012 | SL | 8260 | 1.4-Dibhlorobenzene | ND | 5.5 | ug/kg | |
| 93FW1565012 | SL | 8260 | Dichlorodifluoromethane | ND | 5.5 | ug/kg | |
| 93FW1565012 | SL | 8260 | 1,1-Dichloroethane | ND | 5.5 | ug/kg | |
| 93FW1565012 | SL | 8260 | 1,2-Dichloroethane | ND | 5.5 | ug/kg | |
| 93FW1565012 | SL | 8260 | 1,1-Dichloroethene | ND | 5.5 | ug/kg | |
| 93FW1565012 | SL | 8260 | cis-1,2-Dichloroethene | ND | 5.5 | ug/kg | |
| 93FW1565012 | SL | 8260 | trans-1,2-Dichloroethene | ND | 5.5 | ug/kg | |
| 93FW1565012 | SL | 8260 | 1,2-Dichloropropane | ND | 5.5 | ug/kg | |
| 93FW1565012 | SL | 8260 | 1,3-Dichloropropane | ND | 5.5 | ug/kg | |
| 93FW1565012 | SL | 8260 | 2,2-Dichloropropane | ND | 5.5 | ug/kg | |
| 93FW1565012 | SL | 8260 | trans-1,3-Dichloropropene | ND | 5.5 | ug/kg | |
| 93FW1565012 | SL | 8260 | 1,1-Dichloropropene | ND | 5.5 | ug/kg | |
| 93FW1565012 | SL | 8260 | cis-1,3-Dichloropropene | ND | 5.5 | ug/kg | |
| 93FW1565012 | SL | 8260 | Ethyl benzene | ND | 5.5 | ug/kg | |
| 93FW1565012 | SL | 8260 | Hexachlorobutadiene | ND | 5.5 | ug/kg | |
| 93FW1565012 | SL | 8260 | Isopropylbenzene | ND | 5.5 | ug/kg | |
| 93FW1565012 | SL | 8260 | p-Isopropyltoluene | ND | 5.5 | ug/kg | |
| 93FW1565012 | SL | 8260 | Methylene chloride | 7.9 | 5.5 | ug/kg | B-O |
| 93FW1565012 | SL | 8260 | Naphthalene | ND | 5.5 | ug/kg | |
| 93FW1565012 | SL | 8260 | n-Propylbenzene | ND | 5.5 | ug/kg | |
| 93FW1565012 | SL | 8260 | Styrene | ND | 5.5 | ug/kg | |
| 93FW1565012 | SL | 8260 | 1,1,1,2-Tetrachloroethane | ND | 5.5 | ug/kg | |
| 93FW1565012 | SL | 8260 | 1,1,2,2,-Tetrachloroethane | ND | 5.5 | ug/kg | |
| 93FW1565012 | SL | 8260 | Tetrachloroethene | ND | 5.5 | ug/kg | |
| 93FW1565012 | SL | 8260 | 1,2,3-Trichlorobenzene | ND | 5.5 | ug/kg | |
| 93FW1565012 | SL | 8260 | 1,2,4-Trichlorobenzene | ND | 5.5 | ug/kg | |
| 93FW1565012 | SL | 8260 | 1,1,1-Trichloroethane | ND | 5.5 | ug/kg | |
| 93FW1565012 | SL | 8260 | 1,1,2-Trichloroethane | ND | 5.5 | ug/kg | |
| 93FW1565012 | SL | 8260 | Trichloroethene | ND | 5.5 | ug/kg | |
| 93FW1565012 | SL | 8260 | Trichlorofluoromethane | ND | 5.5 | ug/kg | |
| 93FW1565012 | SL | 8260 | 1,2,3-Trichloropropane | ND | 5.5 | ug/kg | |
| 93FW1565012 | SL | 8260 | 1.2.4-Trimethylbenzene | ND | 5.5 | ug/kg | |
| 93FW1565012 | SL | 8260 | 1,3,5-Trimethylbenzene | ND | 5.5 | ug/kg | |
| 93FW1565012 | SL | 8260 | Toulene | ND | 5.5 | ug/kg | |
| 93FW1565012 | SL | 8260 | Vinyl chloride | ND | 5.5 | ug/kg | |
| 93FW1565012 | SL | 8260 | o-Xylene | ND | 5.5 | ug/kg | |
| 93FW1565012 | SL | 8260 | m & p-Xylene | ND | 5.5 | ug/kg | |
| 93FW1565012 | SL | 8260 | SURROGATE RESULTS | - - | | | |
| 93FW1565012 | SL | 8260 | 4-Bromofluorobenzene (SURR) | 119.0 | | | |
| 93FW1565012 | SL | 8260 | Toluene-d8 (SURR) | 87.0 | | | |
| 93FW1565012 | SL | 8260 | 1,2-Dichloroethane-d4 (SURR) | 101.0 | | | |
| 93FW1565013 | SL | 8260 | Acetone | ND | 13.0 | ug/kg | |
| 93FW1565013 | SL | 8260 | Benzene | ND | 6.4 | ug/kg | |
| 93FW1565013 | SL | 8260 | Bromobenzene | ND | 6.4 | ug/kg | |
| 93FW1565013 | SL | 8260 | Bromochloromethane | ND | 6.4 | ug/kg | |
| 93FW1565013 | SL | 8260 | Bromodichloromethane | ND | 6.4 | ug/kg | |
| 93FW1565013 | SL | 8260 | Bromoform | ND | 6.4 | ug/kg | |
| 93FW1565013 | SL | 8260 | Bromomethane | ND | 6.4 | ug/kg | |
| 93FW1565013 | SL | 8260 | 2-Butanone | ND | 13.0 | ug/kg | |
| 93FW1565013 | SL | 8260 | n-Butylbenzene | ND | 6.4 | ug/kg | |
| 93FW1565013 | SL | 8260 | sec-Butylbenzene | ND | 6.4 | ug/kg | |
| 93FW1565013 | SL | 8260 | tert-Butylbenzene | ND | 6.4 | ug/kg | |
| 93FW1565013 | SL | 8260 | Carbon Tetrachloride | ND | 6.4 | ug/kg | |
| 93FW1565013 | SL | 8260 | Chlorobenzene | ND | 6.4 | ug/kg | |
| 93FW1565013 | SL | 8260 | Chloroethane | ND | 6.4 | ug/kg | |
| 93FW1565013 | SL | 8260 | Chloroform | ND | 6.4 | ug/kg | |
| 93FW1565013 | SL | 8260 | Chloromethane | ND | 6.4 | ug/kg | |
| 93FW1565013 | SL | 8260 | 2-Chlorotoluene | ND | 6.4 | ug/kg | |
| 93FW1565013 | SL | 8260 | 4-Chlrortoluene | ND | 6.4 | ug/kg | |
| 93FW1565013 | SL | 8260 | 1,2-Dibromo-3-chloropropane | ND | 6.4 | ug/kg | |
| 93FW1565013 | SL | 8260 | 1,2-Dibromoethane | ND | 6.4 | ug/kg | |

# 1993 Building 1565 Soil Data

| Sample Number | | Method | Chemical | Det Conc | Det Limit | Units | Flags |
|---|---|---|---|---|---|---|---|
| 93FW1565013 | SL | 8260 | Dibromochloromethane | ND | 6.4 | ug/kg | |
| 93FW1565013 | SL | 8260 | Dibromomethane | ND | 6.4 | ug/kg | |
| 93FW1565013 | SL | 8260 | 1,2-Dichlorobenzene | ND | 6.4 | ug/kg | |
| 93FW1565013 | SL | 8260 | 1,3-Dichlorobenzene | ND | 6.4 | ug/kg | |
| 93FW1565013 | SL | 8260 | 1.4-Dibhlorobenzene | ND | 6.4 | ug/kg | |
| 93FW1565013 | SL | 8260 | Dichlorodifluoromethane | ND | 6.4 | ug/kg | |
| 93FW1565013 | SL | 8260 | 1,1-Dichloroethane | ND | 6.4 | ug/kg | |
| 93FW1565013 | SL | 8260 | 1,2-Dichloroethane | ND | 6.4 | ug/kg | |
| 93FW1565013 | SL | 8260 | 1,1-Dichloroethene | ND | 6.4 | ug/kg | |
| 93FW1565013 | SL | 8260 | cis-1,2-Dichloroethene | ND | 6.4 | ug/kg | |
| 93FW1565013 | SL | 8260 | trans-1,2-Dichloroethene | ND | 6.4 | ug/kg | |
| 93FW1565013 | SL | 8260 | 1,2-Dichloropropane | ND | 6.4 | ug/kg | |
| 93FW1565013 | SL | 8260 | 1,3-Dichloropropane | ND | 6.4 | ug/kg | |
| 93FW1565013 | SL | 8260 | 2,2-Dichloropropane | ND | 6.4 | ug/kg | |
| 93FW1565013 | SL | 8260 | trans-1,3-Dichloropropene | ND | 6.4 | ug/kg | |
| 93FW1565013 | SL | 8260 | 1,1-Dichloropropene | ND | 6.4 | ug/kg | |
| 93FW1565013 | SL | 8260 | cis-1,3-Dichloropropene | ND | 6.4 | ug/kg | |
| 93FW1565013 | SL | 8260 | Ethyl benzene | ND | 6.4 | ug/kg | |
| 93FW1565013 | SL | 8260 | Hexachlorobutadiene | ND | 6.4 | ug/kg | |
| 93FW1565013 | SL | 8260 | Isopropylbenzene | ND | 6.4 | ug/kg | |
| 93FW1565013 | SL | 8260 | p-Isopropyltoluene | ND | 6.4 | ug/kg | |
| 93FW1565013 | SL | 8260 | Methylene chloride | 12.0 | 6.4 | ug/kg | B-O |
| 93FW1565013 | SL | 8260 | Naphthalene | ND | 6.4 | ug/kg | |
| 93FW1565013 | SL | 8260 | n-Propylbenzene | ND | 6.4 | ug/kg | |
| 93FW1565013 | SL | 8260 | Styrene | ND | 6.4 | ug/kg | |
| 93FW1565013 | SL | 8260 | 1,1,1,2-Tetrachloroethane | ND | 6.4 | ug/kg | |
| 93FW1565013 | SL | 8260 | 1,1,2,2,-Tetrachloroethane | ND | 6.4 | ug/kg | |
| 93FW1565013 | SL | 8260 | Tetrachloroethene | ND | 6.4 | ug/kg | |
| 93FW1565013 | SL | 8260 | 1,2,3-Trichlorobenzene | ND | 6.4 | ug/kg | |
| 93FW1565013 | SL | 8260 | 1,2,4-Trichlorobenzene | ND | 6.4 | ug/kg | |
| 93FW1565013 | SL | 8260 | 1,1,1-Trichloroethane | ND | 6.4 | ug/kg | |
| 93FW1565013 | SL | 8260 | 1,1,2-Trichloroethane | ND | 6.4 | ug/kg | |
| 93FW1565013 | SL | 8260 | Trichloroethene | ND | 6.4 | ug/kg | |
| 93FW1565013 | SL | 8260 | Trichlorofluoromethane | ND | 6.4 | ug/kg | |
| 93FW1565013 | SL | 8260 | 1,2,3-Trichloropropane | ND | 6.4 | ug/kg | |
| 93FW1565013 | SL | 8260 | 1.2.4-Trimethylbenzene | ND | 6.4 | ug/kg | |
| 93FW1565013 | SL | 8260 | 1,3,5-Trimethylbenzene | ND | 6.4 | ug/kg | |
| 93FW1565013 | SL | 8260 | Toulene | ND | 6.4 | ug/kg | |
| 93FW1565013 | SL | 8260 | Vinyl chloride | ND | 6.4 | ug/kg | |
| 93FW1565013 | SL | 8260 | o-Xylene | ND | 6.4 | ug/kg | |
| 93FW1565013 | SL | 8260 | m & p-Xylene | ND | 6.4 | ug/kg | |
| 93FW1565013 | SL | 8260 | SURROGATE RESULTS | - - | | | |
| 93FW1565013 | SL | 8260 | 4-Bromofluorobenzene (SURR) | 113.0 | | | |
| 93FW1565013 | SL | 8260 | Toluene-d8 (SURR) | 109.0 | | | |
| 93FW1565013 | SL | 8260 | 1,2-Dichloroethane-d4 (SURR) | 103.0 | | | |
| 93FW1565014 | SL | 8260 | Acetone | ND | 10.0 | ug/kg | |
| 93FW1565014 | SL | 8260 | Benzene | ND | 5.5 | ug/kg | |
| 93FW1565014 | SL | 8260 | Bromobenzene | ND | 5.2 | ug/kg | |
| 93FW1565014 | SL | 8260 | Bromochloromethane | ND | 5.2 | ug/kg | |
| 93FW1565014 | SL | 8260 | Bromodichloromethane | ND | 5.2 | ug/kg | |
| 93FW1565014 | SL | 8260 | Bromoform | ND | 5.2 | ug/kg | |
| 93FW1565014 | SL | 8260 | Bromomethane | ND | 5.2 | ug/kg | |
| 93FW1565014 | SL | 8260 | 2-Butanone | ND | 10.0 | ug/kg | |
| 93FW1565014 | SL | 8260 | n-Butylbenzene | ND | 5.2 | ug/kg | |
| 93FW1565014 | SL | 8260 | sec-Butylbenzene | ND | 5.2 | ug/kg | |
| 93FW1565014 | SL | 8260 | tert-Butylbenzene | ND | 5.2 | ug/kg | |
| 93FW1565014 | SL | 8260 | Carbon Tetrachloride | ND | 5.2 | ug/kg | |
| 93FW1565014 | SL | 8260 | Chlorobenzene | ND | 5.2 | ug/kg | |
| 93FW1565014 | SL | 8260 | Chloroethane | ND | 5.2 | ug/kg | |
| 93FW1565014 | SL | 8260 | Chloroform | ND | 5.2 | ug/kg | |
| 93FW1565014 | SL | 8260 | Chloromethane | ND | 5.2 | ug/kg | |
| 93FW1565014 | SL | 8260 | 2-Chlorotoluene | ND | 5.2 | ug/kg | |
| 93FW1565014 | SL | 8260 | 4-Chlrortoluene | ND | 5.2 | ug/kg | |
| 93FW1565014 | SL | 8260 | 1,2-Dibromo-3-chloropropane | ND | 5.2 | ug/kg | |
| 93FW1565014 | SL | 8260 | 1,2-Dibromoethane | ND | 5.2 | ug/kg | |
| 93FW1565014 | SL | 8260 | Dibromochloromethane | ND | 5.2 | ug/kg | |
| 93FW1565014 | SL | 8260 | Dibromomethane | ND | 5.2 | ug/kg | |
| 93FW1565014 | SL | 8260 | 1,2-Dichlorobenzene | ND | 5.2 | ug/kg | |

# 1993 Building 1565 Soil Data

| Sample Number | | Method | Chemical | Det Conc | Det Limit | Units | Flags |
|---|---|---|---|---|---|---|---|
| 93FW1565014 | SL | 8260 | 1,3-Dichlorobenzene | ND | 5.2 | ug/kg | |
| 93FW1565014 | SL | 8260 | 1.4-Dibhlorobenzene | ND | 5.2 | ug/kg | |
| 93FW1565014 | SL | 8260 | Dichlorodifluoromethane | ND | 5.2 | ug/kg | |
| 93FW1565014 | SL | 8260 | 1,1-Dichloroethane | ND | 5.2 | ug/kg | |
| 93FW1565014 | SL | 8260 | 1,2-Dichloroethane | ND | 5.2 | ug/kg | |
| 93FW1565014 | SL | 8260 | 1,1-Dichloroethene | ND | 5.2 | ug/kg | |
| 93FW1565014 | SL | 8260 | cis-1,2-Dichloroethene | ND | 5.2 | ug/kg | |
| 93FW1565014 | SL | 8260 | trans-1,2-Dichloroethene | ND | 5.2 | ug/kg | |
| 93FW1565014 | SL | 8260 | 1,2-Dichloropropane | ND | 5.2 | ug/kg | |
| 93FW1565014 | SL | 8260 | 1,3-Dichloropropane | ND | 5.2 | ug/kg | |
| 93FW1565014 | SL | 8260 | 2,2-Dichloropropane | ND | 5.2 | ug/kg | |
| 93FW1565014 | SL | 8260 | trans-1,3-Dichloropropene | ND | 5.2 | ug/kg | |
| 93FW1565014 | SL | 8260 | 1,1-Dichloropropene | ND | 5.2 | ug/kg | |
| 93FW1565014 | SL | 8260 | cis-1,3-Dichloropropene | ND | 5.2 | ug/kg | |
| 93FW1565014 | SL | 8260 | Ethyl benzene | ND | 5.2 | ug/kg | |
| 93FW1565014 | SL | 8260 | Hexachlorobutadiene | ND | 5.2 | ug/kg | |
| 93FW1565014 | SL | 8260 | Isopropylbenzene | ND | 5.2 | ug/kg | |
| 93FW1565014 | SL | 8260 | p-Isopropyltoluene | ND | 5.2 | ug/kg | |
| 93FW1565014 | SL | 8260 | Methylene chloride | 5.7 | 5.2 | ug/kg | B-O |
| 93FW1565014 | SL | 8260 | Naphthalene | ND | 5.2 | ug/kg | |
| 93FW1565014 | SL | 8260 | n-Propylbenzene | ND | 5.2 | ug/kg | |
| 93FW1565014 | SL | 8260 | Styrene | ND | 5.2 | ug/kg | |
| 93FW1565014 | SL | 8260 | 1,1,1,2-Tetrachloroethane | ND | 5.2 | ug/kg | |
| 93FW1565014 | SL | 8260 | 1,1,2,2,-Tetrachloroethane | ND | 5.2 | ug/kg | |
| 93FW1565014 | SL | 8260 | Tetrachloroethene | ND | 5.2 | ug/kg | |
| 93FW1565014 | SL | 8260 | 1,2,3-Trichlorobenzene | ND | 5.2 | ug/kg | |
| 93FW1565014 | SL | 8260 | 1,2,4-Trichlorobenzene | ND | 5.2 | ug/kg | |
| 93FW1565014 | SL | 8260 | 1,1,1-Trichloroethane | ND | 5.2 | ug/kg | |
| 93FW1565014 | SL | 8260 | 1,1,2-Trichloroethane | ND | 5.2 | ug/kg | |
| 93FW1565014 | SL | 8260 | Trichloroethene | ND | 5.2 | ug/kg | |
| 93FW1565014 | SL | 8260 | Trichlorofluoromethane | ND | 5.2 | ug/kg | |
| 93FW1565014 | SL | 8260 | 1,2,3-Trichloropropane | ND | 5.2 | ug/kg | |
| 93FW1565014 | SL | 8260 | 1.2.4-Trimethylbenzene | ND | 5.2 | ug/kg | |
| 93FW1565014 | SL | 8260 | 1,3,5-Trimethylbenzene | ND | 5.2 | ug/kg | |
| 93FW1565014 | SL | 8260 | Toulene | 7.0 | 5.2 | ug/kg | |
| 93FW1565014 | SL | 8260 | Vinyl chloride | ND | 5.2 | ug/kg | |
| 93FW1565014 | SL | 8260 | o-Xylene | ND | 5.2 | ug/kg | |
| 93FW1565014 | SL | 8260 | m & p-Xylene | ND | 5.2 | ug/kg | |
| 93FW1565014 | SL | 8260 | SURROGATE RESULTS | - - | | | |
| 93FW1565014 | SL | 8260 | 4-Bromofluorobenzene (SURR) | 121.0 | | | MI |
| 93FW1565014 | SL | 8260 | Toluene-d8 (SURR) | 97.0 | | | |
| 93FW1565014 | SL | 8260 | 1,2-Dichloroethane-d4 (SURR) | 108.0 | | | |
| 93FW1565015 | SL | 8260 | Acetone | ND | 10.0 | ug/kg | |
| 93FW1565015 | SL | 8260 | Benzene | ND | 5.1 | ug/kg | |
| 93FW1565015 | SL | 8260 | Bromobenzene | ND | 5.1 | ug/kg | |
| 93FW1565015 | SL | 8260 | Bromochloromethane | ND | 5.1 | ug/kg | |
| 93FW1565015 | SL | 8260 | Bromodichloromethane | ND | 5.1 | ug/kg | |
| 93FW1565015 | SL | 8260 | Bromoform | ND | 5.1 | ug/kg | |
| 93FW1565015 | SL | 8260 | Bromomethane | ND | 5.1 | ug/kg | |
| 93FW1565015 | SL | 8260 | 2-Butanone | ND | 10.0 | ug/kg | |
| 93FW1565015 | SL | 8260 | n-Butylbenzene | ND | 5.1 | ug/kg | |
| 93FW1565015 | SL | 8260 | sec-Butylbenzene | ND | 5.1 | ug/kg | |
| 93FW1565015 | SL | 8260 | tert-Butylbenzene | ND | 5.1 | ug/kg | |
| 93FW1565015 | SL | 8260 | Carbon Tetrachloride | ND | 5.1 | ug/kg | |
| 93FW1565015 | SL | 8260 | Chlorobenzene | ND | 5.1 | ug/kg | |
| 93FW1565015 | SL | 8260 | Chloroethane | ND | 5.1 | ug/kg | |
| 93FW1565015 | SL | 8260 | Chloroform | ND | 5.1 | ug/kg | |
| 93FW1565015 | SL | 8260 | Chloromethane | ND | 5.1 | ug/kg | |
| 93FW1565015 | SL | 8260 | 2-Chlorotoluene | ND | 5.1 | ug/kg | |
| 93FW1565015 | SL | 8260 | 4-Chlrortoluene | ND | 5.1 | ug/kg | |
| 93FW1565015 | SL | 8260 | 1,2-Dibromo-3-chloropropane | ND | 5.1 | ug/kg | |
| 93FW1565015 | SL | 8260 | 1,2-Dibromoethane | ND | 5.1 | ug/kg | |
| 93FW1565015 | SL | 8260 | Dibromochloromethane | ND | 5.1 | ug/kg | |
| 93FW1565015 | SL | 8260 | Dibromomethane | ND | 5.1 | ug/kg | |
| 93FW1565015 | SL | 8260 | 1,2-Dichlorobenzene | ND | 5.1 | ug/kg | |
| 93FW1565015 | SL | 8260 | 1,3-Dichlorobenzene | ND | 5.1 | ug/kg | |
| 93FW1565015 | SL | 8260 | 1.4-Dibhlorobenzene | ND | 5.1 | ug/kg | |
| 93FW1565015 | SL | 8260 | Dichlorodifluoromethane | ND | 5.1 | ug/kg | |

# 1993 Building 1565 Soil Data

| Sample Number | | Method | Chemical | Det Conc | Det Limit | Units | Flags |
|---|---|---|---|---|---|---|---|
| 93FW1565015 | SL | 8260 | 1,1-Dichloroethane | ND | 5.1 | ug/kg | |
| 93FW1565015 | SL | 8260 | 1,2-Dichloroethane | ND | 5.1 | ug/kg | |
| 93FW1565015 | SL | 8260 | 1,1-Dichloroethene | ND | 5.1 | ug/kg | |
| 93FW1565015 | SL | 8260 | cis-1,2-Dichloroethene | ND | 5.1 | ug/kg | |
| 93FW1565015 | SL | 8260 | trans-1,2-Dichloroethene | ND | 5.1 | ug/kg | |
| 93FW1565015 | SL | 8260 | 1,2-Dichloropropane | ND | 5.1 | ug/kg | |
| 93FW1565015 | SL | 8260 | 1,3-Dichloropropane | ND | 5.1 | ug/kg | |
| 93FW1565015 | SL | 8260 | 2,2-Dichloropropane | ND | 5.1 | ug/kg | |
| 93FW1565015 | SL | 8260 | trans-1,3-Dichloropropene | ND | 5.1 | ug/kg | |
| 93FW1565015 | SL | 8260 | 1,1-Dichloropropene | ND | 5.1 | ug/kg | |
| 93FW1565015 | SL | 8260 | cis-1,3-Dichloropropene | ND | 5.1 | ug/kg | |
| 93FW1565015 | SL | 8260 | Ethyl benzene | ND | 5.1 | ug/kg | |
| 93FW1565015 | SL | 8260 | Hexachlorobutadiene | ND | 5.1 | ug/kg | |
| 93FW1565015 | SL | 8260 | Isopropylbenzene | ND | 5.1 | ug/kg | |
| 93FW1565015 | SL | 8260 | p-Isopropyltoluene | ND | 5.1 | ug/kg | |
| 93FW1565015 | SL | 8260 | Methylene chloride | 8.1 | 5.1 | ug/kg | B-O |
| 93FW1565015 | SL | 8260 | Naphthalene | ND | 5.1 | ug/kg | |
| 93FW1565015 | SL | 8260 | n-Propylbenzene | ND | 5.1 | ug/kg | |
| 93FW1565015 | SL | 8260 | Styrene | ND | 5.1 | ug/kg | |
| 93FW1565015 | SL | 8260 | 1,1,1,2-Tetrachloroethane | ND | 5.1 | ug/kg | |
| 93FW1565015 | SL | 8260 | 1,1,2,2,-Tetrachloroethane | ND | 5.1 | ug/kg | |
| 93FW1565015 | SL | 8260 | Tetrachloroethene | ND | 5.1 | ug/kg | |
| 93FW1565015 | SL | 8260 | 1,2,3-Trichlorobenzene | ND | 5.1 | ug/kg | |
| 93FW1565015 | SL | 8260 | 1,2,4-Trichlorobenzene | ND | 5.1 | ug/kg | |
| 93FW1565015 | SL | 8260 | 1,1,1-Trichloroethane | ND | 5.1 | ug/kg | |
| 93FW1565015 | SL | 8260 | 1,1,2-Trichloroethane | ND | 5.1 | ug/kg | |
| 93FW1565015 | SL | 8260 | Trichloroethene | ND | 5.1 | ug/kg | |
| 93FW1565015 | SL | 8260 | Trichlorofluoromethane | ND | 5.1 | ug/kg | |
| 93FW1565015 | SL | 8260 | 1,2,3-Trichloropropane | ND | 5.1 | ug/kg | |
| 93FW1565015 | SL | 8260 | 1.2.4-Trimethylbenzene | ND | 5.1 | ug/kg | |
| 93FW1565015 | SL | 8260 | 1,3,5-Trimethylbenzene | ND | 5.1 | ug/kg | |
| 93FW1565015 | SL | 8260 | Toulene | ND | 5.1 | ug/kg | |
| 93FW1565015 | SL | 8260 | Vinyl chloride | ND | 5.1 | ug/kg | |
| 93FW1565015 | SL | 8260 | o-Xylene | ND | 5.1 | ug/kg | |
| 93FW1565015 | SL | 8260 | m & p-Xylene | ND | 5.1 | ug/kg | |
| 93FW1565015 | SL | 8260 | SURROGATE RESULTS | - - | | | |
| 93FW1565015 | SL | 8260 | 4-Bromofluorobenzene (SURR) | 114.0 | | | MI |
| 93FW1565015 | SL | 8260 | Toluene-d8 (SURR) | 115.0 | | | |
| 93FW1565015 | SL | 8260 | 1,2-Dichloroethane-d4 (SURR) | 98.0 | | | |
| 93FW1565016 | SL | 8260 | Acetone | ND | 13.0 | ug/kg | |
| 93FW1565016 | SL | 8260 | Benzene | ND | 6.4 | ug/kg | |
| 93FW1565016 | SL | 8260 | Bromobenzene | ND | 6.4 | ug/kg | |
| 93FW1565016 | SL | 8260 | Bromochloromethane | ND | 6.4 | ug/kg | |
| 93FW1565016 | SL | 8260 | Bromodichloromethane | ND | 6.4 | ug/kg | |
| 93FW1565016 | SL | 8260 | Bromoform | ND | 6.4 | ug/kg | |
| 93FW1565016 | SL | 8260 | Bromomethane | ND | 6.4 | ug/kg | |
| 93FW1565016 | SL | 8260 | 2-Butanone | ND | 13.0 | ug/kg | |
| 93FW1565016 | SL | 8260 | n-Butylbenzene | ND | 6.4 | ug/kg | |
| 93FW1565016 | SL | 8260 | sec-Butylbenzene | ND | 6.4 | ug/kg | |
| 93FW1565016 | SL | 8260 | tert-Butylbenzene | ND | 6.4 | ug/kg | |
| 93FW1565016 | SL | 8260 | Carbon Tetrachloride | ND | 6.4 | ug/kg | |
| 93FW1565016 | SL | 8260 | Chlorobenzene | ND | 6.4 | ug/kg | |
| 93FW1565016 | SL | 8260 | Chloroethane | ND | 6.4 | ug/kg | |
| 93FW1565016 | SL | 8260 | Chloroform | ND | 6.4 | ug/kg | |
| 93FW1565016 | SL | 8260 | Chloromethane | ND | 6.4 | ug/kg | |
| 93FW1565016 | SL | 8260 | 2-Chlorotoluene | ND | 6.4 | ug/kg | |
| 93FW1565016 | SL | 8260 | 4-Chlrortoluene | ND | 6.4 | ug/kg | |
| 93FW1565016 | SL | 8260 | 1,2-Dibromo-3-chloropropane | ND | 6.4 | ug/kg | |
| 93FW1565016 | SL | 8260 | 1,2-Dibromoethane | ND | 6.4 | ug/kg | |
| 93FW1565016 | SL | 8260 | Dibromochloromethane | ND | 6.4 | ug/kg | |
| 93FW1565016 | SL | 8260 | Dibromomethane | ND | 6.4 | ug/kg | |
| 93FW1565016 | SL | 8260 | 1,2-Dichlorobenzene | ND | 6.4 | ug/kg | |
| 93FW1565016 | SL | 8260 | 1,3-Dichlorobenzene | ND | 6.4 | ug/kg | |
| 93FW1565016 | SL | 8260 | 1.4-Dibhlorobenzene | ND | 6.4 | ug/kg | |
| 93FW1565016 | SL | 8260 | Dichlorodifluoromethane | ND | 6.4 | ug/kg | |
| 93FW1565016 | SL | 8260 | 1,1-Dichloroethane | ND | 6.4 | ug/kg | |
| 93FW1565016 | SL | 8260 | 1,2-Dichloroethane | ND | 6.4 | ug/kg | |
| 93FW1565016 | SL | 8260 | 1,1-Dichloroethene | ND | 6.4 | ug/kg | |

# 1993 Building 1565 Soil Data

| Sample Number | | Method | Chemical | Det Conc | Det Limit | Units | Flags |
|---|---|---|---|---|---|---|---|
| 93FW1565016 | SL | 8260 | cis-1,2-Dichloroethene | ND | 6.4 | ug/kg | |
| 93FW1565016 | SL | 8260 | trans-1,2-Dichloroethene | ND | 6.4 | ug/kg | |
| 93FW1565016 | SL | 8260 | 1,2-Dichloropropane | ND | 6.4 | ug/kg | |
| 93FW1565016 | SL | 8260 | 1,3-Dichloropropane | ND | 6.4 | ug/kg | |
| 93FW1565016 | SL | 8260 | 2,2-Dichloropropane | ND | 6.4 | ug/kg | |
| 93FW1565016 | SL | 8260 | trans-1,3-Dichloropropene | ND | 6.4 | ug/kg | |
| 93FW1565016 | SL | 8260 | 1,1-Dichloropropene | ND | 6.4 | ug/kg | |
| 93FW1565016 | SL | 8260 | cis-1,3-Dichloropropene | ND | 6.4 | ug/kg | |
| 93FW1565016 | SL | 8260 | Ethyl benzene | ND | 6.4 | ug/kg | |
| 93FW1565016 | SL | 8260 | Hexachlorobutadiene | ND | 6.4 | ug/kg | |
| 93FW1565016 | SL | 8260 | Isopropylbenzene | ND | 6.4 | ug/kg | |
| 93FW1565016 | SL | 8260 | p-Isopropyltoluene | ND | 6.4 | ug/kg | |
| 93FW1565016 | SL | 8260 | Methylene chloride | 8.2 | 6.4 | ug/kg | B-O |
| 93FW1565016 | SL | 8260 | Naphthalene | ND | 6.4 | ug/kg | |
| 93FW1565016 | SL | 8260 | n-Propylbenzene | ND | 6.4 | ug/kg | |
| 93FW1565016 | SL | 8260 | Styrene | ND | 6.4 | ug/kg | |
| 93FW1565016 | SL | 8260 | 1,1,1,2-Tetrachloroethane | ND | 6.4 | ug/kg | |
| 93FW1565016 | SL | 8260 | 1,1,2,2,-Tetrachloroethane | ND | 6.4 | ug/kg | |
| 93FW1565016 | SL | 8260 | Tetrachloroethene | ND | 6.4 | ug/kg | |
| 93FW1565016 | SL | 8260 | 1,2,3-Trichlorobenzene | ND | 6.4 | ug/kg | |
| 93FW1565016 | SL | 8260 | 1,2,4-Trichlorobenzene | ND | 6.4 | ug/kg | |
| 93FW1565016 | SL | 8260 | 1,1,1-Trichloroethane | ND | 6.4 | ug/kg | |
| 93FW1565016 | SL | 8260 | 1,1,2-Trichloroethane | ND | 6.4 | ug/kg | |
| 93FW1565016 | SL | 8260 | Trichloroethene | ND | 6.4 | ug/kg | |
| 93FW1565016 | SL | 8260 | Trichlorofluoromethane | ND | 6.4 | ug/kg | |
| 93FW1565016 | SL | 8260 | 1,2,3-Trichloropropane | ND | 6.4 | ug/kg | |
| 93FW1565016 | SL | 8260 | 1.2.4-Trimethylbenzene | ND | 6.4 | ug/kg | |
| 93FW1565016 | SL | 8260 | 1,3,5-Trimethylbenzene | ND | 6.4 | ug/kg | |
| 93FW1565016 | SL | 8260 | Toulene | ND | 6.4 | ug/kg | |
| 93FW1565016 | SL | 8260 | Vinyl chloride | ND | 6.4 | ug/kg | |
| 93FW1565016 | SL | 8260 | o-Xylene | ND | 6.4 | ug/kg | |
| 93FW1565016 | SL | 8260 | m & p-Xylene | ND | 6.4 | ug/kg | |
| 93FW1565016 | SL | 8260 | SURROGATE RESULTS | - - | | | |
| 93FW1565016 | SL | 8260 | 4-Bromofluorobenzene (SURR) | 121.0 | | | MI |
| 93FW1565016 | SL | 8260 | Toluene-d8 (SURR) | 97.0 | | | |
| 93FW1565016 | SL | 8260 | 1,2-Dichloroethane-d4 (SURR) | 106.0 | | | |
| 93FW1565017 | SL | 8260 | Acetone | ND | 11.0 | ug/kg | |
| 93FW1565017 | SL | 8260 | Benzene | ND | 5.4 | ug/kg | |
| 93FW1565017 | SL | 8260 | Bromobenzene | ND | 5.4 | ug/kg | |
| 93FW1565017 | SL | 8260 | Bromochloromethane | ND | 5.4 | ug/kg | |
| 93FW1565017 | SL | 8260 | Bromodichloromethane | ND | 5.4 | ug/kg | |
| 93FW1565017 | SL | 8260 | Bromoform | ND | 5.4 | ug/kg | |
| 93FW1565017 | SL | 8260 | Bromomethane | ND | 5.4 | ug/kg | |
| 93FW1565017 | SL | 8260 | 2-Butanone | ND | 11.0 | ug/kg | |
| 93FW1565017 | SL | 8260 | n-Butylbenzene | ND | 5.4 | ug/kg | |
| 93FW1565017 | SL | 8260 | sec-Butylbenzene | ND | 5.4 | ug/kg | |
| 93FW1565017 | SL | 8260 | tert-Butylbenzene | ND | 5.4 | ug/kg | |
| 93FW1565017 | SL | 8260 | Carbon Tetrachloride | ND | 5.4 | ug/kg | |
| 93FW1565017 | SL | 8260 | Chlorobenzene | ND | 5.4 | ug/kg | |
| 93FW1565017 | SL | 8260 | Chloroethane | ND | 5.4 | ug/kg | |
| 93FW1565017 | SL | 8260 | Chloroform | ND | 5.4 | ug/kg | |
| 93FW1565017 | SL | 8260 | Chloromethane | ND | 5.4 | ug/kg | |
| 93FW1565017 | SL | 8260 | 2-Chlorotoluene | ND | 5.4 | ug/kg | |
| 93FW1565017 | SL | 8260 | 4-Chlrortoluene | ND | 5.4 | ug/kg | |
| 93FW1565017 | SL | 8260 | 1,2-Dibromo-3-chloropropane | ND | 5.4 | ug/kg | |
| 93FW1565017 | SL | 8260 | 1,2-Dibromoethane | ND | 5.4 | ug/kg | |
| 93FW1565017 | SL | 8260 | Dibromochloromethane | ND | 5.4 | ug/kg | |
| 93FW1565017 | SL | 8260 | Dibromomethane | ND | 5.4 | ug/kg | |
| 93FW1565017 | SL | 8260 | 1,2-Dichlorobenzene | ND | 5.4 | ug/kg | |
| 93FW1565017 | SL | 8260 | 1,3-Dichlorobenzene | ND | 5.4 | ug/kg | |
| 93FW1565017 | SL | 8260 | 1.4-Dibhlorobenzene | ND | 5.4 | ug/kg | |
| 93FW1565017 | SL | 8260 | Dichlorodifluoromethane | ND | 5.4 | ug/kg | |
| 93FW1565017 | SL | 8260 | 1,1-Dichloroethane | ND | 5.4 | ug/kg | |
| 93FW1565017 | SL | 8260 | 1,2-Dichloroethane | ND | 5.4 | ug/kg | |
| 93FW1565017 | SL | 8260 | 1,1-Dichloroethene | ND | 5.4 | ug/kg | |
| 93FW1565017 | SL | 8260 | cis-1,2-Dichloroethene | ND | 5.4 | ug/kg | |
| 93FW1565017 | SL | 8260 | trans-1,2-Dichloroethene | ND | 5.4 | ug/kg | |
| 93FW1565017 | SL | 8260 | 1,2-Dichloropropane | ND | 5.4 | ug/kg | |

# 1993 Building 1565 Soil Data

| Sample Number | | Method | Chemical | Det Conc | Det Limit | Units | Flags |
|---|---|---|---|---|---|---|---|
| 93FW1565017 | SL | 8260 | 1,3-Dichloropropane | ND | 5.4 | ug/kg | |
| 93FW1565017 | SL | 8260 | 2,2-Dichloropropane | ND | 5.4 | ug/kg | |
| 93FW1565017 | SL | 8260 | trans-1,3-Dichloropropene | ND | 5.4 | ug/kg | |
| 93FW1565017 | SL | 8260 | 1,1-Dichloropropene | ND | 5.4 | ug/kg | |
| 93FW1565017 | SL | 8260 | cis-1,3-Dichloropropene | ND | 5.4 | ug/kg | |
| 93FW1565017 | SL | 8260 | Ethyl benzene | ND | 5.4 | ug/kg | |
| 93FW1565017 | SL | 8260 | Hexachlorobutadiene | ND | 5.4 | ug/kg | |
| 93FW1565017 | SL | 8260 | Isopropylbenzene | ND | 5.4 | ug/kg | |
| 93FW1565017 | SL | 8260 | p-Isopropyltoluene | ND | 5.4 | ug/kg | |
| 93FW1565017 | SL | 8260 | Methylene chloride | 5.7 | 5.4 | ug/kg | B-O |
| 93FW1565017 | SL | 8260 | Naphthalene | ND | 5.4 | ug/kg | |
| 93FW1565017 | SL | 8260 | n-Propylbenzene | ND | 5.4 | ug/kg | |
| 93FW1565017 | SL | 8260 | Styrene | ND | 5.4 | ug/kg | |
| 93FW1565017 | SL | 8260 | 1,1,1,2-Tetrachloroethane | ND | 5.4 | ug/kg | |
| 93FW1565017 | SL | 8260 | 1,1,2,2,-Tetrachloroethane | ND | 5.4 | ug/kg | |
| 93FW1565017 | SL | 8260 | Tetrachloroethene | ND | 5.4 | ug/kg | |
| 93FW1565017 | SL | 8260 | 1,2,3-Trichlorobenzene | ND | 5.4 | ug/kg | |
| 93FW1565017 | SL | 8260 | 1,2,4-Trichlorobenzene | ND | 5.4 | ug/kg | |
| 93FW1565017 | SL | 8260 | 1,1,1-Trichloroethane | ND | 5.4 | ug/kg | |
| 93FW1565017 | SL | 8260 | 1,1,2-Trichloroethane | ND | 5.4 | ug/kg | |
| 93FW1565017 | SL | 8260 | Trichloroethene | ND | 5.4 | ug/kg | |
| 93FW1565017 | SL | 8260 | Trichlorofluoromethane | ND | 5.4 | ug/kg | |
| 93FW1565017 | SL | 8260 | 1,2,3-Trichloropropane | ND | 5.4 | ug/kg | |
| 93FW1565017 | SL | 8260 | 1.2.4-Trimethylbenzene | ND | 5.4 | ug/kg | |
| 93FW1565017 | SL | 8260 | 1,3,5-Trimethylbenzene | ND | 5.4 | ug/kg | |
| 93FW1565017 | SL | 8260 | Toulene | ND | 5.4 | ug/kg | |
| 93FW1565017 | SL | 8260 | Vinyl chloride | ND | 5.4 | ug/kg | |
| 93FW1565017 | SL | 8260 | o-Xylene | ND | 5.4 | ug/kg | |
| 93FW1565017 | SL | 8260 | m & p-Xylene | ND | 5.4 | ug/kg | |
| 93FW1565017 | SL | 8260 | SURROGATE RESULTS | - - | | | |
| 93FW1565017 | SL | 8260 | 4-Bromofluorobenzene (SURR) | 114.0 | | | |
| 93FW1565017 | SL | 8260 | Toluene-d8 (SURR) | 103.0 | | | |
| 93FW1565017 | SL | 8260 | 1,2-Dichloroethane-d4 (SURR) | 105.0 | | | |
| 93FW1565018 | SL | 8260 | Acetone | ND | 11.0 | ug/kg | |
| 93FW1565018 | SL | 8260 | Benzene | ND | 5.6 | ug/kg | |
| 93FW1565018 | SL | 8260 | Bromobenzene | ND | 5.6 | ug/kg | |
| 93FW1565018 | SL | 8260 | Bromochloromethane | ND | 5.6 | ug/kg | |
| 93FW1565018 | SL | 8260 | Bromodichloromethane | ND | 5.6 | ug/kg | |
| 93FW1565018 | SL | 8260 | Bromoform | ND | 5.6 | ug/kg | |
| 93FW1565018 | SL | 8260 | Bromomethane | ND | 5.7 | ug/kg | |
| 93FW1565018 | SL | 8260 | 2-Butanone | ND | 11.0 | ug/kg | |
| 93FW1565018 | SL | 8260 | n-Butylbenzene | ND | 5.6 | ug/kg | |
| 93FW1565018 | SL | 8260 | sec-Butylbenzene | ND | 5.6 | ug/kg | |
| 93FW1565018 | SL | 8260 | tert-Butylbenzene | ND | 5.6 | ug/kg | |
| 93FW1565018 | SL | 8260 | Carbon Tetrachloride | ND | 5.6 | ug/kg | |
| 93FW1565018 | SL | 8260 | Chlorobenzene | ND | 5.6 | ug/kg | |
| 93FW1565018 | SL | 8260 | Chloroethane | ND | 5.6 | ug/kg | |
| 93FW1565018 | SL | 8260 | Chloroform | ND | 5.6 | ug/kg | |
| 93FW1565018 | SL | 8260 | Chloromethane | ND | 5.6 | ug/kg | |
| 93FW1565018 | SL | 8260 | 2-Chlorotoluene | ND | 5.6 | ug/kg | |
| 93FW1565018 | SL | 8260 | 4-Chlrortoluene | ND | 5.6 | ug/kg | |
| 93FW1565018 | SL | 8260 | 1,2-Dibromo-3-chloropropane | ND | 5.6 | ug/kg | |
| 93FW1565018 | SL | 8260 | 1,2-Dibromoethane | ND | 5.6 | ug/kg | |
| 93FW1565018 | SL | 8260 | Dibromochloromethane | ND | 5.6 | ug/kg | |
| 93FW1565018 | SL | 8260 | Dibromomethane | ND | 5.6 | ug/kg | |
| 93FW1565018 | SL | 8260 | 1,2-Dichlorobenzene | ND | 5.6 | ug/kg | |
| 93FW1565018 | SL | 8260 | 1,3-Dichlorobenzene | ND | 5.6 | ug/kg | |
| 93FW1565018 | SL | 8260 | 1.4-Dibhlorobenzene | ND | 5.6 | ug/kg | |
| 93FW1565018 | SL | 8260 | Dichlorodifluoromethane | ND | 5.6 | ug/kg | |
| 93FW1565018 | SL | 8260 | 1,1-Dichloroethane | ND | 5.6 | ug/kg | |
| 93FW1565018 | SL | 8260 | 1,2-Dichloroethane | ND | 5.6 | ug/kg | |
| 93FW1565018 | SL | 8260 | 1,1-Dichloroethene | ND | 5.6 | ug/kg | |
| 93FW1565018 | SL | 8260 | cis-1,2-Dichloroethene | ND | 5.6 | ug/kg | |
| 93FW1565018 | SL | 8260 | trans-1,2-Dichloroethene | ND | 5.6 | ug/kg | |
| 93FW1565018 | SL | 8260 | 1,2-Dichloropropane | ND | 5.6 | ug/kg | |
| 93FW1565018 | SL | 8260 | 1,3-Dichloropropane | ND | 5.6 | ug/kg | |
| 93FW1565018 | SL | 8260 | 2,2-Dichloropropane | ND | 5.6 | ug/kg | |
| 93FW1565018 | SL | 8260 | trans-1,3-Dichloropropene | ND | 5.6 | ug/kg | |

# 1993 Building 1565 Soil Data

| Sample Number | | Method | Chemical | Det Conc | Det Limit | Units | Flags |
|---|---|---|---|---|---|---|---|
| 93FW1565018 | SL | 8260 | 1,1-Dichloropropene | ND | 5.6 | ug/kg | |
| 93FW1565018 | SL | 8260 | cis-1,3-Dichloropropene | ND | 5.6 | ug/kg | |
| 93FW1565018 | SL | 8260 | Ethyl benzene | ND | 5.6 | ug/kg | |
| 93FW1565018 | SL | 8260 | Hexachlorobutadiene | ND | 5.6 | ug/kg | |
| 93FW1565018 | SL | 8260 | Isopropylbenzene | ND | 5.6 | ug/kg | |
| 93FW1565018 | SL | 8260 | p-Isopropyltoluene | ND | 5.6 | ug/kg | |
| 93FW1565018 | SL | 8260 | Methylene chloride | 5.6 | 5.6 | ug/kg | B-O |
| 93FW1565018 | SL | 8260 | Naphthalene | ND | 5.6 | ug/kg | |
| 93FW1565018 | SL | 8260 | n-Propylbenzene | ND | 5.6 | ug/kg | |
| 93FW1565018 | SL | 8260 | Styrene | ND | 5.6 | ug/kg | |
| 93FW1565018 | SL | 8260 | 1,1,1,2-Tetrachloroethane | ND | 5.6 | ug/kg | |
| 93FW1565018 | SL | 8260 | 1,1,2,2,-Tetrachloroethane | ND | 5.6 | ug/kg | |
| 93FW1565018 | SL | 8260 | Tetrachloroethene | ND | 5.6 | ug/kg | |
| 93FW1565018 | SL | 8260 | 1,2,3-Trichlorobenzene | ND | 5.6 | ug/kg | |
| 93FW1565018 | SL | 8260 | 1,2,4-Trichlorobenzene | ND | 5.6 | ug/kg | |
| 93FW1565018 | SL | 8260 | 1,1,1-Trichloroethane | ND | 5.6 | ug/kg | |
| 93FW1565018 | SL | 8260 | 1,1,2-Trichloroethane | ND | 5.6 | ug/kg | |
| 93FW1565018 | SL | 8260 | Trichloroethene | ND | 5.6 | ug/kg | |
| 93FW1565018 | SL | 8260 | Trichlorofluoromethane | ND | 5.6 | ug/kg | |
| 93FW1565018 | SL | 8260 | 1,2,3-Trichloropropane | ND | 5.6 | ug/kg | |
| 93FW1565018 | SL | 8260 | 1.2.4-Trimethylbenzene | ND | 5.6 | ug/kg | |
| 93FW1565018 | SL | 8260 | 1,3,5-Trimethylbenzene | ND | 5.6 | ug/kg | |
| 93FW1565018 | SL | 8260 | Toulene | ND | 5.6 | ug/kg | |
| 93FW1565018 | SL | 8260 | Vinyl chloride | ND | 5.6 | ug/kg | |
| 93FW1565018 | SL | 8260 | o-Xylene | ND | 5.6 | ug/kg | |
| 93FW1565018 | SL | 8260 | m & p-Xylene | ND | 5.6 | ug/kg | |
| 93FW1565018 | SL | 8260 | SURROGATE RESULTS | - - | | | |
| 93FW1565018 | SL | 8260 | 4-Bromofluorobenzene (SURR) | 116.0 | | | MI |
| 93FW1565018 | SL | 8260 | Toluene-d8 (SURR) | 104.0 | | | |
| 93FW1565018 | SL | 8260 | 1,2-Dichloroethane-d4 (SURR) | 105.0 | | | |
| 93FW1565019 | SL | 8260 | Acetone | ND | 10.0 | ug/kg | |
| 93FW1565019 | SL | 8260 | Benzene | ND | 5.2 | ug/kg | |
| 93FW1565019 | SL | 8260 | Bromobenzene | ND | 5.2 | ug/kg | |
| 93FW1565019 | SL | 8260 | Bromochloromethane | ND | 5.2 | ug/kg | |
| 93FW1565019 | SL | 8260 | Bromodichloromethane | ND | 5.2 | ug/kg | |
| 93FW1565019 | SL | 8260 | Bromoform | ND | 5.2 | ug/kg | |
| 93FW1565019 | SL | 8260 | Bromomethane | ND | 5.2 | ug/kg | |
| 93FW1565019 | SL | 8260 | 2-Butanone | ND | 10.0 | ug/kg | |
| 93FW1565019 | SL | 8260 | n-Butylbenzene | ND | 5.2 | ug/kg | |
| 93FW1565019 | SL | 8260 | sec-Butylbenzene | ND | 5.2 | ug/kg | |
| 93FW1565019 | SL | 8260 | tert-Butylbenzene | ND | 5.2 | ug/kg | |
| 93FW1565019 | SL | 8260 | Carbon Tetrachloride | ND | 5.2 | ug/kg | |
| 93FW1565019 | SL | 8260 | Chlorobenzene | ND | 5.2 | ug/kg | |
| 93FW1565019 | SL | 8260 | Chloroethane | ND | 5.2 | ug/kg | |
| 93FW1565019 | SL | 8260 | Chloroform | ND | 5.2 | ug/kg | |
| 93FW1565019 | SL | 8260 | Chloromethane | ND | 5.2 | ug/kg | |
| 93FW1565019 | SL | 8260 | 2-Chlorotoluene | ND | 5.2 | ug/kg | |
| 93FW1565019 | SL | 8260 | 4-Chlrortoluene | ND | 5.2 | ug/kg | |
| 93FW1565019 | SL | 8260 | 1,2-Dibromo-3-chloropropane | ND | 5.2 | ug/kg | |
| 93FW1565019 | SL | 8260 | 1,2-Dibromoethane | ND | 5.2 | ug/kg | |
| 93FW1565019 | SL | 8260 | Dibromochloromethane | ND | 5.2 | ug/kg | |
| 93FW1565019 | SL | 8260 | Dibromomethane | ND | 5.2 | ug/kg | |
| 93FW1565019 | SL | 8260 | 1,2-Dichlorobenzene | ND | 5.2 | ug/kg | |
| 93FW1565019 | SL | 8260 | 1,3-Dichlorobenzene | ND | 5.2 | ug/kg | |
| 93FW1565019 | SL | 8260 | 1.4-Dibhlorobenzene | ND | 5.2 | ug/kg | |
| 93FW1565019 | SL | 8260 | Dichlorodifluoromethane | ND | 5.2 | ug/kg | |
| 93FW1565019 | SL | 8260 | 1,1-Dichloroethane | ND | 5.2 | ug/kg | |
| 93FW1565019 | SL | 8260 | 1,2-Dichloroethane | ND | 5.2 | ug/kg | |
| 93FW1565019 | SL | 8260 | 1,1-Dichloroethene | ND | 5.2 | ug/kg | |
| 93FW1565019 | SL | 8260 | cis-1,2-Dichloroethene | ND | 5.2 | ug/kg | |
| 93FW1565019 | SL | 8260 | trans-1,2-Dichloroethene | ND | 5.2 | ug/kg | |
| 93FW1565019 | SL | 8260 | 1,2-Dichloropropane | ND | 5.2 | ug/kg | |
| 93FW1565019 | SL | 8260 | 1,3-Dichloropropane | ND | 5.2 | ug/kg | |
| 93FW1565019 | SL | 8260 | 2,2-Dichloropropane | ND | 5.2 | ug/kg | |
| 93FW1565019 | SL | 8260 | trans-1,3-Dichloropropene | ND | 5.2 | ug/kg | |
| 93FW1565019 | SL | 8260 | 1,1-Dichloropropene | ND | 5.2 | ug/kg | |
| 93FW1565019 | SL | 8260 | cis-1,3-Dichloropropene | ND | 5.2 | ug/kg | |
| 93FW1565019 | SL | 8260 | Ethyl benzene | ND | 5.2 | ug/kg | |

# 1993 Building 1565 Soil Data

| Sample Number | | Method | Chemical | Det Conc | Det Limit | Units | Flags |
|---|---|---|---|---|---|---|---|
| 93FW1565019 | SL | 8260 | Hexachlorobutadiene | ND | 5.2 | ug/kg | |
| 93FW1565019 | SL | 8260 | Isopropylbenzene | ND | 5.2 | ug/kg | |
| 93FW1565019 | SL | 8260 | p-Isopropyltoluene | ND | 5.2 | ug/kg | |
| 93FW1565019 | SL | 8260 | Methylene chloride | ND | 5.2 | ug/kg | B-O |
| 93FW1565019 | SL | 8260 | Naphthalene | ND | 5.2 | ug/kg | |
| 93FW1565019 | SL | 8260 | n-Propylbenzene | ND | 5.2 | ug/kg | |
| 93FW1565019 | SL | 8260 | Styrene | ND | 5.2 | ug/kg | |
| 93FW1565019 | SL | 8260 | 1,1,1,2-Tetrachloroethane | ND | 5.2 | ug/kg | |
| 93FW1565019 | SL | 8260 | 1,1,2,2,-Tetrachloroethane | ND | 5.2 | ug/kg | |
| 93FW1565019 | SL | 8260 | Tetrachloroethene | ND | 5.2 | ug/kg | |
| 93FW1565019 | SL | 8260 | 1,2,3-Trichlorobenzene | ND | 5.2 | ug/kg | |
| 93FW1565019 | SL | 8260 | 1,2,4-Trichlorobenzene | ND | 5.2 | ug/kg | |
| 93FW1565019 | SL | 8260 | 1,1,1-Trichloroethane | ND | 5.2 | ug/kg | |
| 93FW1565019 | SL | 8260 | 1,1,2-Trichloroethane | ND | 5.2 | ug/kg | |
| 93FW1565019 | SL | 8260 | Trichloroethene | ND | 5.2 | ug/kg | |
| 93FW1565019 | SL | 8260 | Trichlorofluoromethane | ND | 5.2 | ug/kg | |
| 93FW1565019 | SL | 8260 | 1,2,3-Trichloropropane | ND | 5.2 | ug/kg | |
| 93FW1565019 | SL | 8260 | 1.2.4-Trimethylbenzene | ND | 5.2 | ug/kg | |
| 93FW1565019 | SL | 8260 | 1,3,5-Trimethylbenzene | ND | 5.2 | ug/kg | |
| 93FW1565019 | SL | 8260 | Toulene | ND | 5.2 | ug/kg | |
| 93FW1565019 | SL | 8260 | Vinyl chloride | ND | 5.2 | ug/kg | |
| 93FW1565019 | SL | 8260 | o-Xylene | ND | 5.2 | ug/kg | |
| 93FW1565019 | SL | 8260 | m & p-Xylene | ND | 5.2 | ug/kg | |
| 93FW1565019 | SL | 8260 | SURROGATE RESULTS | - - | | | |
| 93FW1565019 | SL | 8260 | 4-Bromofluorobenzene (SURR) | 115.0 | | | MI |
| 93FW1565019 | SL | 8260 | Toluene-d8 (SURR) | 103.0 | | | |
| 93FW1565019 | SL | 8260 | 1,2-Dichloroethane-d4 (SURR) | 106.0 | | | |
| 93FW1565020 | SL | 8260 | Acetone | ND | 11.0 | ug/kg | |
| 93FW1565020 | SL | 8260 | Benzene | ND | 5.7 | ug/kg | |
| 93FW1565020 | SL | 8260 | Bromobenzene | ND | 5.7 | ug/kg | |
| 93FW1565020 | SL | 8260 | Bromochloromethane | ND | 5.7 | ug/kg | |
| 93FW1565020 | SL | 8260 | Bromodichloromethane | ND | 5.7 | ug/kg | |
| 93FW1565020 | SL | 8260 | Bromoform | ND | 5.7 | ug/kg | |
| 93FW1565020 | SL | 8260 | Bromomethane | ND | 5.7 | ug/kg | |
| 93FW1565020 | SL | 8260 | 2-Butanone | ND | 11.0 | ug/kg | |
| 93FW1565020 | SL | 8260 | n-Butylbenzene | ND | 5.7 | ug/kg | |
| 93FW1565020 | SL | 8260 | sec-Butylbenzene | ND | 5.7 | ug/kg | |
| 93FW1565020 | SL | 8260 | tert-Butylbenzene | ND | 5.7 | ug/kg | |
| 93FW1565020 | SL | 8260 | Carbon Tetrachloride | ND | 5.7 | ug/kg | |
| 93FW1565020 | SL | 8260 | Chlorobenzene | ND | 5.7 | ug/kg | |
| 93FW1565020 | SL | 8260 | Chloroethane | ND | 5.7 | ug/kg | |
| 93FW1565020 | SL | 8260 | Chloroform | ND | 5.7 | ug/kg | |
| 93FW1565020 | SL | 8260 | Chloromethane | ND | 5.7 | ug/kg | |
| 93FW1565020 | SL | 8260 | 2-Chlorotoluene | ND | 5.7 | ug/kg | |
| 93FW1565020 | SL | 8260 | 4-Chlrortoluene | ND | 5.7 | ug/kg | |
| 93FW1565020 | SL | 8260 | 1,2-Dibromo-3-chloropropane | ND | 5.7 | ug/kg | |
| 93FW1565020 | SL | 8260 | 1,2-Dibromoethane | ND | 5.7 | ug/kg | |
| 93FW1565020 | SL | 8260 | Dibromochloromethane | ND | 5.7 | ug/kg | |
| 93FW1565020 | SL | 8260 | Dibromomethane | ND | 5.7 | ug/kg | |
| 93FW1565020 | SL | 8260 | 1,2-Dichlorobenzene | ND | 5.7 | ug/kg | |
| 93FW1565020 | SL | 8260 | 1,3-Dichlorobenzene | ND | 5.7 | ug/kg | |
| 93FW1565020 | SL | 8260 | 1.4-Dibhlorobenzene | ND | 5.7 | ug/kg | |
| 93FW1565020 | SL | 8260 | Dichlorodifluoromethane | ND | 5.7 | ug/kg | |
| 93FW1565020 | SL | 8260 | 1,1-Dichloroethane | ND | 5.7 | ug/kg | |
| 93FW1565020 | SL | 8260 | 1,2-Dichloroethane | ND | 5.7 | ug/kg | |
| 93FW1565020 | SL | 8260 | 1,1-Dichloroethene | ND | 5.7 | ug/kg | |
| 93FW1565020 | SL | 8260 | cis-1,2-Dichloroethene | ND | 5.7 | ug/kg | |
| 93FW1565020 | SL | 8260 | trans-1,2-Dichloroethene | ND | 5.7 | ug/kg | |
| 93FW1565020 | SL | 8260 | 1,2-Dichloropropane | ND | 5.7 | ug/kg | |
| 93FW1565020 | SL | 8260 | 1,3-Dichloropropane | ND | 5.7 | ug/kg | |
| 93FW1565020 | SL | 8260 | 2,2-Dichloropropane | ND | 5.7 | ug/kg | |
| 93FW1565020 | SL | 8260 | trans-1,3-Dichloropropene | ND | 5.7 | ug/kg | |
| 93FW1565020 | SL | 8260 | 1,1-Dichloropropene | ND | 5.7 | ug/kg | |
| 93FW1565020 | SL | 8260 | cis-1,3-Dichloropropene | ND | 5.7 | ug/kg | |
| 93FW1565020 | SL | 8260 | Ethyl benzene | ND | 5.7 | ug/kg | |
| 93FW1565020 | SL | 8260 | Hexachlorobutadiene | ND | 5.7 | ug/kg | |
| 93FW1565020 | SL | 8260 | Isopropylbenzene | ND | 5.7 | ug/kg | |
| 93FW1565020 | SL | 8260 | p-Isopropyltoluene | ND | 5.7 | ug/kg | B-O |

# 1993 Building 1565 Soil Data

| Sample Number | | Method | Chemical | Det Conc | Det Limit | Units | Flags |
|---|---|---|---|---|---|---|---|
| 93FW1565020 | SL | 8260 | Methylene chloride | ND | 5.7 | ug/kg | |
| 93FW1565020 | SL | 8260 | Naphthalene | ND | 5.7 | ug/kg | |
| 93FW1565020 | SL | 8260 | n-Propylbenzene | ND | 5.7 | ug/kg | |
| 93FW1565020 | SL | 8260 | Styrene | ND | 5.7 | ug/kg | |
| 93FW1565020 | SL | 8260 | 1,1,1,2-Tetrachloroethane | ND | 5.7 | ug/kg | |
| 93FW1565020 | SL | 8260 | 1,1,2,2,-Tetrachloroethane | ND | 5.7 | ug/kg | |
| 93FW1565020 | SL | 8260 | Tetrachloroethene | ND | 5.7 | ug/kg | |
| 93FW1565020 | SL | 8260 | 1,2,3-Trichlorobenzene | ND | 5.7 | ug/kg | |
| 93FW1565020 | SL | 8260 | 1,2,4-Trichlorobenzene | ND | 5.7 | ug/kg | |
| 93FW1565020 | SL | 8260 | 1,1,1-Trichloroethane | ND | 5.7 | ug/kg | |
| 93FW1565020 | SL | 8260 | 1,1,2-Trichloroethane | ND | 5.7 | ug/kg | |
| 93FW1565020 | SL | 8260 | Trichloroethene | ND | 5.7 | ug/kg | |
| 93FW1565020 | SL | 8260 | Trichlorofluoromethane | ND | 5.7 | ug/kg | |
| 93FW1565020 | SL | 8260 | 1,2,3-Trichloropropane | ND | 5.7 | ug/kg | |
| 93FW1565020 | SL | 8260 | 1.2.4-Trimethylbenzene | ND | 5.7 | ug/kg | |
| 93FW1565020 | SL | 8260 | 1,3,5-Trimethylbenzene | ND | 5.7 | ug/kg | |
| 93FW1565020 | SL | 8260 | Toulene | ND | 5.7 | ug/kg | |
| 93FW1565020 | SL | 8260 | Vinyl chloride | ND | 5.7 | ug/kg | |
| 93FW1565020 | SL | 8260 | o-Xylene | ND | 5.7 | ug/kg | |
| 93FW1565020 | SL | 8260 | m & p-Xylene | ND | 5.7 | ug/kg | |
| 93FW1565020 | SL | 8260 | SURROGATE RESULTS | - - | | | |
| 93FW1565020 | SL | 8260 | 4-Bromofluorobenzene (SURR) | 110.0 | | | |
| 93FW1565020 | SL | 8260 | Toluene-d8 (SURR) | 102.0 | | | |
| 93FW1565020 | SL | 8260 | 1,2-Dichloroethane-d4 (SURR) | 106.0 | | | |
| 93FW1565021 | SL | 8260 | Acetone | ND | 10.0 | ug/kg | |
| 93FW1565021 | SL | 8260 | Benzene | ND | 5.1 | ug/kg | |
| 93FW1565021 | SL | 8260 | Bromobenzene | ND | 5.1 | ug/kg | |
| 93FW1565021 | SL | 8260 | Bromochloromethane | ND | 5.1 | ug/kg | |
| 93FW1565021 | SL | 8260 | Bromodichloromethane | ND | 5.1 | ug/kg | |
| 93FW1565021 | SL | 8260 | Bromoform | ND | 5.1 | ug/kg | |
| 93FW1565021 | SL | 8260 | Bromomethane | ND | 5.1 | ug/kg | |
| 93FW1565021 | SL | 8260 | 2-Butanone | ND | 10.0 | ug/kg | |
| 93FW1565021 | SL | 8260 | n-Butylbenzene | ND | 5.1 | ug/kg | |
| 93FW1565021 | SL | 8260 | sec-Butylbenzene | ND | 5.1 | ug/kg | |
| 93FW1565021 | SL | 8260 | tert-Butylbenzene | ND | 5.1 | ug/kg | |
| 93FW1565021 | SL | 8260 | Carbon Tetrachloride | ND | 5.1 | ug/kg | |
| 93FW1565021 | SL | 8260 | Chlorobenzene | ND | 5.1 | ug/kg | |
| 93FW1565021 | SL | 8260 | Chloroethane | ND | 5.1 | ug/kg | |
| 93FW1565021 | SL | 8260 | Chloroform | ND | 5.1 | ug/kg | |
| 93FW1565021 | SL | 8260 | Chloromethane | ND | 5.1 | ug/kg | |
| 93FW1565021 | SL | 8260 | 2-Chlorotoluene | ND | 5.1 | ug/kg | |
| 93FW1565021 | SL | 8260 | 4-Chlrortoluene | ND | 5.1 | ug/kg | |
| 93FW1565021 | SL | 8260 | 1,2-Dibromo-3-chloropropane | ND | 5.1 | ug/kg | |
| 93FW1565021 | SL | 8260 | 1,2-Dibromoethane | ND | 5.1 | ug/kg | |
| 93FW1565021 | SL | 8260 | Dibromochloromethane | ND | 5.1 | ug/kg | |
| 93FW1565021 | SL | 8260 | Dibromomethane | ND | 5.1 | ug/kg | |
| 93FW1565021 | SL | 8260 | 1,2-Dichlorobenzene | ND | 5.1 | ug/kg | |
| 93FW1565021 | SL | 8260 | 1,3-Dichlorobenzene | ND | 5.1 | ug/kg | |
| 93FW1565021 | SL | 8260 | 1.4-Dibhlorobenzene | ND | 5.1 | ug/kg | |
| 93FW1565021 | SL | 8260 | Dichlorodifluoromethane | ND | 5.1 | ug/kg | |
| 93FW1565021 | SL | 8260 | 1,1-Dichloroethane | ND | 5.1 | ug/kg | |
| 93FW1565021 | SL | 8260 | 1,2-Dichloroethane | ND | 5.1 | ug/kg | |
| 93FW1565021 | SL | 8260 | 1,1-Dichloroethene | ND | 5.1 | ug/kg | |
| 93FW1565021 | SL | 8260 | cis-1,2-Dichloroethene | ND | 5.1 | ug/kg | |
| 93FW1565021 | SL | 8260 | trans-1,2-Dichloroethene | ND | 5.1 | ug/kg | |
| 93FW1565021 | SL | 8260 | 1,2-Dichloropropane | ND | 5.1 | ug/kg | |
| 93FW1565021 | SL | 8260 | 1,3-Dichloropropane | ND | 5.1 | ug/kg | |
| 93FW1565021 | SL | 8260 | 2,2-Dichloropropane | ND | 5.1 | ug/kg | |
| 93FW1565021 | SL | 8260 | trans-1,3-Dichloropropene | ND | 5.1 | ug/kg | |
| 93FW1565021 | SL | 8260 | 1,1-Dichloropropene | ND | 5.1 | ug/kg | |
| 93FW1565021 | SL | 8260 | cis-1,3-Dichloropropene | ND | 5.1 | ug/kg | |
| 93FW1565021 | SL | 8260 | Ethyl benzene | ND | 5.1 | ug/kg | |
| 93FW1565021 | SL | 8260 | Hexachlorobutadiene | ND | 5.1 | ug/kg | |
| 93FW1565021 | SL | 8260 | Isopropylbenzene | ND | 5.1 | ug/kg | |
| 93FW1565021 | SL | 8260 | p-Isopropyltoluene | ND | 5.1 | ug/kg | |
| 93FW1565021 | SL | 8260 | Methylene chloride | 5.1 | 5.1 | ug/kg | B-O |
| 93FW1565021 | SL | 8260 | Naphthalene | ND | 5.1 | ug/kg | |
| 93FW1565021 | SL | 8260 | n-Propylbenzene | ND | 5.1 | ug/kg | |

# 1993 Building 1565 Soil Data

| Sample Number | | Method | Chemical | Det Conc | Det Limit | Units | Flags |
|---|---|---|---|---|---|---|---|
| 93FW1565021 | SL | 8260 | Styrene | ND | 5.1 | ug/kg | |
| 93FW1565021 | SL | 8260 | 1,1,1,2-Tetrachloroethane | ND | 5.1 | ug/kg | |
| 93FW1565021 | SL | 8260 | 1,1,2,2,-Tetrachloroethane | ND | 5.1 | ug/kg | |
| 93FW1565021 | SL | 8260 | Tetrachloroethene | ND | 5.1 | ug/kg | |
| 93FW1565021 | SL | 8260 | 1,2,3-Trichlorobenzene | ND | 5.1 | ug/kg | |
| 93FW1565021 | SL | 8260 | 1,2,4-Trichlorobenzene | ND | 5.1 | ug/kg | |
| 93FW1565021 | SL | 8260 | 1,1,1-Trichloroethane | ND | 5.1 | ug/kg | |
| 93FW1565021 | SL | 8260 | 1,1,2-Trichloroethane | ND | 5.1 | ug/kg | |
| 93FW1565021 | SL | 8260 | Trichloroethene | ND | 5.1 | ug/kg | |
| 93FW1565021 | SL | 8260 | Trichlorofluoromethane | ND | 5.1 | ug/kg | |
| 93FW1565021 | SL | 8260 | 1,2,3-Trichloropropane | ND | 5.1 | ug/kg | |
| 93FW1565021 | SL | 8260 | 1.2.4-Trimethylbenzene | ND | 5.1 | ug/kg | |
| 93FW1565021 | SL | 8260 | 1,3,5-Trimethylbenzene | ND | 5.1 | ug/kg | |
| 93FW1565021 | SL | 8260 | Toulene | ND | 5.1 | ug/kg | |
| 93FW1565021 | SL | 8260 | Vinyl chloride | ND | 5.1 | ug/kg | |
| 93FW1565021 | SL | 8260 | o-Xylene | ND | 5.1 | ug/kg | |
| 93FW1565021 | SL | 8260 | m & p-Xylene | ND | 5.1 | ug/kg | |
| 93FW1565021 | SL | 8260 | SURROGATE RESULTS | - - | | | |
| 93FW1565021 | SL | 8260 | 4-Bromofluorobenzene (SURR) | 108.0 | | | |
| 93FW1565021 | SL | 8260 | Toluene-d8 (SURR) | 100.0 | | | |
| 93FW1565021 | SL | 8260 | 1,2-Dichloroethane-d4 (SURR) | 106.0 | | | |
| 93FW1565022 | SL | 8260 | Acetone | ND | 10.0 | ug/kg | |
| 93FW1565022 | SL | 8260 | Benzene | ND | 5.1 | ug/kg | |
| 93FW1565022 | SL | 8260 | Bromobenzene | ND | 5.1 | ug/kg | |
| 93FW1565022 | SL | 8260 | Bromochloromethane | ND | 5.1 | ug/kg | |
| 93FW1565022 | SL | 8260 | Bromodichloromethane | ND | 5.1 | ug/kg | |
| 93FW1565022 | SL | 8260 | Bromoform | ND | 5.1 | ug/kg | |
| 93FW1565022 | SL | 8260 | Bromomethane | ND | 5.1 | ug/kg | |
| 93FW1565022 | SL | 8260 | 2-Butanone | ND | 10.0 | ug/kg | |
| 93FW1565022 | SL | 8260 | n-Butylbenzene | ND | 5.1 | ug/kg | |
| 93FW1565022 | SL | 8260 | sec-Butylbenzene | ND | 5.1 | ug/kg | |
| 93FW1565022 | SL | 8260 | tert-Butylbenzene | ND | 5.1 | ug/kg | |
| 93FW1565022 | SL | 8260 | Carbon Tetrachloride | ND | 5.1 | ug/kg | |
| 93FW1565022 | SL | 8260 | Chlorobenzene | ND | 5.1 | ug/kg | |
| 93FW1565022 | SL | 8260 | Chloroethane | ND | 5.1 | ug/kg | |
| 93FW1565022 | SL | 8260 | Chloroform | ND | 5.1 | ug/kg | |
| 93FW1565022 | SL | 8260 | Chloromethane | ND | 5.1 | ug/kg | |
| 93FW1565022 | SL | 8260 | 2-Chlorotoluene | ND | 5.1 | ug/kg | |
| 93FW1565022 | SL | 8260 | 4-Chlrortoluene | ND | 5.1 | ug/kg | |
| 93FW1565022 | SL | 8260 | 1,2-Dibromo-3-chloropropane | ND | 5.1 | ug/kg | |
| 93FW1565022 | SL | 8260 | 1,2-Dibromoethane | ND | 5.1 | ug/kg | |
| 93FW1565022 | SL | 8260 | Dibromochloromethane | ND | 5.1 | ug/kg | |
| 93FW1565022 | SL | 8260 | Dibromomethane | ND | 5.1 | ug/kg | |
| 93FW1565022 | SL | 8260 | 1,2-Dichlorobenzene | ND | 5.1 | ug/kg | |
| 93FW1565022 | SL | 8260 | 1,3-Dichlorobenzene | ND | 5.1 | ug/kg | |
| 93FW1565022 | SL | 8260 | 1.4-Dibhlorobenzene | ND | 5.1 | ug/kg | |
| 93FW1565022 | SL | 8260 | Dichlorodifluoromethane | ND | 5.1 | ug/kg | |
| 93FW1565022 | SL | 8260 | 1,1-Dichloroethane | ND | 5.1 | ug/kg | |
| 93FW1565022 | SL | 8260 | 1,2-Dichloroethane | ND | 5.1 | ug/kg | |
| 93FW1565022 | SL | 8260 | 1,1-Dichloroethene | ND | 5.1 | ug/kg | |
| 93FW1565022 | SL | 8260 | cis-1,2-Dichloroethene | ND | 5.1 | ug/kg | |
| 93FW1565022 | SL | 8260 | trans-1,2-Dichloroethene | ND | 5.1 | ug/kg | |
| 93FW1565022 | SL | 8260 | 1,2-Dichloropropane | ND | 5.1 | ug/kg | |
| 93FW1565022 | SL | 8260 | 1,3-Dichloropropane | ND | 5.1 | ug/kg | |
| 93FW1565022 | SL | 8260 | 2,2-Dichloropropane | ND | 5.1 | ug/kg | |
| 93FW1565022 | SL | 8260 | trans-1,3-Dichloropropene | ND | 5.1 | ug/kg | |
| 93FW1565022 | SL | 8260 | 1,1-Dichloropropene | ND | 5.1 | ug/kg | |
| 93FW1565022 | SL | 8260 | cis-1,3-Dichloropropene | ND | 5.1 | ug/kg | |
| 93FW1565022 | SL | 8260 | Ethyl benzene | ND | 5.1 | ug/kg | |
| 93FW1565022 | SL | 8260 | Hexachlorobutadiene | ND | 5.1 | ug/kg | |
| 93FW1565022 | SL | 8260 | Isopropylbenzene | ND | 5.1 | ug/kg | |
| 93FW1565022 | SL | 8260 | p-Isopropyltoluene | ND | 5.1 | ug/kg | |
| 93FW1565022 | SL | 8260 | Methylene chloride | ND | 5.1 | ug/kg | |
| 93FW1565022 | SL | 8260 | Naphthalene | ND | 5.1 | ug/kg | |
| 93FW1565022 | SL | 8260 | n-Propylbenzene | ND | 5.1 | ug/kg | |
| 93FW1565022 | SL | 8260 | Styrene | ND | 5.1 | ug/kg | |
| 93FW1565022 | SL | 8260 | 1,1,1,2-Tetrachloroethane | ND | 5.1 | ug/kg | |
| 93FW1565022 | SL | 8260 | 1,1,2,2,-Tetrachloroethane | ND | 5.1 | ug/kg | |

# 1993 Building 1565 Soil Data

| Sample Number | | Method | Chemical | Det Conc | Det Limit | Units | Flags |
|---|---|---|---|---|---|---|---|
| 93FW1565022 | SL | 8260 | Tetrachloroethene | ND | 5.1 | ug/kg | |
| 93FW1565022 | SL | 8260 | 1,2,3-Trichlorobenzene | ND | 5.1 | ug/kg | |
| 93FW1565022 | SL | 8260 | 1,2,4-Trichlorobenzene | ND | 5.1 | ug/kg | |
| 93FW1565022 | SL | 8260 | 1,1,1-Trichloroethane | ND | 5.1 | ug/kg | |
| 93FW1565022 | SL | 8260 | 1,1,2-Trichloroethane | ND | 5.1 | ug/kg | |
| 93FW1565022 | SL | 8260 | Trichloroethene | ND | 5.1 | ug/kg | |
| 93FW1565022 | SL | 8260 | Trichlorofluoromethane | ND | 5.1 | ug/kg | |
| 93FW1565022 | SL | 8260 | 1,2,3-Trichloropropane | ND | 5.1 | ug/kg | |
| 93FW1565022 | SL | 8260 | 1,2,4-Trimethylbenzene | ND | 5.1 | ug/kg | |
| 93FW1565022 | SL | 8260 | 1,3,5-Trimethylbenzene | ND | 5.1 | ug/kg | |
| 93FW1565022 | SL | 8260 | Toulene | ND | 5.1 | ug/kg | |
| 93FW1565022 | SL | 8260 | Vinyl chloride | ND | 5.1 | ug/kg | |
| 93FW1565022 | SL | 8260 | o-Xylene | ND | 5.1 | ug/kg | |
| 93FW1565022 | SL | 8260 | m & p-Xylene | ND | 5.1 | ug/kg | |
| 93FW1565022 | SL | 8260 | SURROGATE RESULTS | -- | | | |
| 93FW1565022 | SL | 8260 | 4-Bromofluorobenzene (SURR) | 112.0 | | | |
| 93FW1565022 | SL | 8260 | Toluene-d8 (SURR) | 98.0 | | | |
| 93FW1565022 | SL | 8260 | 1,2-Dichloroethane-d4 (SURR) | 107.0 | | | |
| 93FW1565023 | SL | 8260 | Acetone | ND | 10.0 | ug/kg | |
| 93FW1565023 | SL | 8260 | Benzene | ND | 5.1 | ug/kg | |
| 93FW1565023 | SL | 8260 | Bromobenzene | ND | 5.1 | ug/kg | |
| 93FW1565023 | SL | 8260 | Bromochloromethane | ND | 5.1 | ug/kg | |
| 93FW1565023 | SL | 8260 | Bromodichloromethane | ND | 5.1 | ug/kg | |
| 93FW1565023 | SL | 8260 | Bromoform | ND | 5.1 | ug/kg | |
| 93FW1565023 | SL | 8260 | Bromomethane | ND | 5.1 | ug/kg | |
| 93FW1565023 | SL | 8260 | 2-Butanone | ND | 10.0 | ug/kg | |
| 93FW1565023 | SL | 8260 | n-Butylbenzene | ND | 5.1 | ug/kg | |
| 93FW1565023 | SL | 8260 | sec-Butylbenzene | ND | 5.1 | ug/kg | |
| 93FW1565023 | SL | 8260 | tert-Butylbenzene | ND | 5.1 | ug/kg | |
| 93FW1565023 | SL | 8260 | Carbon Tetrachloride | ND | 5.1 | ug/kg | |
| 93FW1565023 | SL | 8260 | Chlorobenzene | ND | 5.1 | ug/kg | |
| 93FW1565023 | SL | 8260 | Chloroethane | ND | 5.1 | ug/kg | |
| 93FW1565023 | SL | 8260 | Chloroform | ND | 5.1 | ug/kg | |
| 93FW1565023 | SL | 8260 | Chloromethane | ND | 5.1 | ug/kg | |
| 93FW1565023 | SL | 8260 | 2-Chlorotoluene | ND | 5.1 | ug/kg | |
| 93FW1565023 | SL | 8260 | 4-Chlrortoluene | ND | 5.1 | ug/kg | |
| 93FW1565023 | SL | 8260 | 1,2-Dibromo-3-chloropropane | ND | 5.1 | ug/kg | |
| 93FW1565023 | SL | 8260 | 1,2-Dibromoethane | ND | 5.1 | ug/kg | |
| 93FW1565023 | SL | 8260 | Dibromochloromethane | ND | 5.1 | ug/kg | |
| 93FW1565023 | SL | 8260 | Dibromomethane | ND | 5.1 | ug/kg | |
| 93FW1565023 | SL | 8260 | 1,2-Dichlorobenzene | ND | 5.1 | ug/kg | |
| 93FW1565023 | SL | 8260 | 1,3-Dichlorobenzene | ND | 5.1 | ug/kg | |
| 93FW1565023 | SL | 8260 | 1,4-Dibhlorobenzene | ND | 5.1 | ug/kg | |
| 93FW1565023 | SL | 8260 | Dichlorodifluoromethane | ND | 5.1 | ug/kg | |
| 93FW1565023 | SL | 8260 | 1,1-Dichloroethane | ND | 5.1 | ug/kg | |
| 93FW1565023 | SL | 8260 | 1,2-Dichloroethane | ND | 5.1 | ug/kg | |
| 93FW1565023 | SL | 8260 | 1,1-Dichloroethene | ND | 5.1 | ug/kg | |
| 93FW1565023 | SL | 8260 | cis-1,2-Dichloroethene | ND | 5.1 | ug/kg | |
| 93FW1565023 | SL | 8260 | trans-1,2-Dichloroethene | ND | 5.1 | ug/kg | |
| 93FW1565023 | SL | 8260 | 1,2-Dichloropropane | ND | 5.1 | ug/kg | |
| 93FW1565023 | SL | 8260 | 1,3-Dichloropropane | ND | 5.1 | ug/kg | |
| 93FW1565023 | SL | 8260 | 2,2-Dichloropropane | ND | 5.1 | ug/kg | |
| 93FW1565023 | SL | 8260 | trans-1,3-Dichloropropene | ND | 5.1 | ug/kg | |
| 93FW1565023 | SL | 8260 | 1,1-Dichloropropene | ND | 5.1 | ug/kg | |
| 93FW1565023 | SL | 8260 | cis-1,3-Dichloropropene | ND | 5.1 | ug/kg | |
| 93FW1565023 | SL | 8260 | Ethyl benzene | ND | 5.1 | ug/kg | |
| 93FW1565023 | SL | 8260 | Hexachlorobutadiene | ND | 5.1 | ug/kg | |
| 93FW1565023 | SL | 8260 | Isopropylbenzene | ND | 5.1 | ug/kg | |
| 93FW1565023 | SL | 8260 | p-Isopropyltoluene | ND | 5.1 | ug/kg | |
| 93FW1565023 | SL | 8260 | Methylene chloride | ND | 5.1 | ug/kg | |
| 93FW1565023 | SL | 8260 | Naphthalene | ND | 5.1 | ug/kg | |
| 93FW1565023 | SL | 8260 | n-Propylbenzene | ND | 5.1 | ug/kg | |
| 93FW1565023 | SL | 8260 | Styrene | ND | 5.1 | ug/kg | |
| 93FW1565023 | SL | 8260 | 1,1,1,2-Tetrachloroethane | ND | 5.1 | ug/kg | |
| 93FW1565023 | SL | 8260 | 1,1,2,2,-Tetrachloroethane | ND | 5.1 | ug/kg | |
| 93FW1565023 | SL | 8260 | Tetrachloroethene | ND | 5.1 | ug/kg | |
| 93FW1565023 | SL | 8260 | 1,2,3-Trichlorobenzene | ND | 5.1 | ug/kg | |
| 93FW1565023 | SL | 8260 | 1,2,4-Trichlorobenzene | ND | 5.1 | ug/kg | |

# 1993 Building 1565 Soil Data

| Sample Number | | Method | Chemical | Det Conc | Det Limit | Units | Flags |
|---|---|---|---|---|---|---|---|
| 93FW1565023 | SL | 8260 | 1,1,1-Trichloroethane | ND | 5.1 | ug/kg | |
| 93FW1565023 | SL | 8260 | 1,1,2-Trichloroethane | ND | 5.1 | ug/kg | |
| 93FW1565023 | SL | 8260 | Trichloroethene | ND | 5.1 | ug/kg | |
| 93FW1565023 | SL | 8260 | Trichlorofluoromethane | ND | 5.1 | ug/kg | |
| 93FW1565023 | SL | 8260 | 1,2,3-Trichloropropane | ND | 5.1 | ug/kg | |
| 93FW1565023 | SL | 8260 | 1.2.4-Trimethylbenzene | ND | 5.1 | ug/kg | |
| 93FW1565023 | SL | 8260 | 1,3,5-Trimethylbenzene | ND | 5.1 | ug/kg | |
| 93FW1565023 | SL | 8260 | Toulene | ND | 5.1 | ug/kg | |
| 93FW1565023 | SL | 8260 | Vinyl chloride | ND | 5.1 | ug/kg | |
| 93FW1565023 | SL | 8260 | o-Xylene | ND | 5.1 | ug/kg | |
| 93FW1565023 | SL | 8260 | m & p-Xylene | ND | 5.1 | ug/kg | |
| 93FW1565023 | SL | 8260 | SURROGATE RESULTS | - - | | | |
| 93FW1565023 | SL | 8260 | 4-Bromofluorobenzene (SURR) | 110.0 | | | |
| 93FW1565023 | SL | 8260 | Toluene-d8 (SURR) | 96.0 | | | |
| 93FW1565023 | SL | 8260 | 1,2-Dichloroethane-d4 (SURR) | 102.0 | | | |
| 93FW1565024 | SL | 8260 | Acetone | ND | 10.0 | ug/kg | |
| 93FW1565024 | SL | 8260 | Benzene | ND | 5.1 | ug/kg | |
| 93FW1565024 | SL | 8260 | Bromobenzene | ND | 5.1 | ug/kg | |
| 93FW1565024 | SL | 8260 | Bromochloromethane | ND | 5.1 | ug/kg | |
| 93FW1565024 | SL | 8260 | Bromodichloromethane | ND | 5.1 | ug/kg | |
| 93FW1565024 | SL | 8260 | Bromoform | ND | 5.1 | ug/kg | |
| 93FW1565024 | SL | 8260 | Bromomethane | ND | 5.1 | ug/kg | |
| 93FW1565024 | SL | 8260 | 2-Butanone | ND | 10.0 | ug/kg | |
| 93FW1565024 | SL | 8260 | n-Butylbenzene | ND | 5.1 | ug/kg | |
| 93FW1565024 | SL | 8260 | sec-Butylbenzene | ND | 5.1 | ug/kg | |
| 93FW1565024 | SL | 8260 | tert-Butylbenzene | ND | 5.1 | ug/kg | |
| 93FW1565024 | SL | 8260 | Carbon Tetrachloride | ND | 5.1 | ug/kg | |
| 93FW1565024 | SL | 8260 | Chlorobenzene | ND | 5.1 | ug/kg | |
| 93FW1565024 | SL | 8260 | Chloroethane | ND | 5.1 | ug/kg | |
| 93FW1565024 | SL | 8260 | Chloroform | ND | 5.1 | ug/kg | |
| 93FW1565024 | SL | 8260 | Chloromethane | ND | 5.1 | ug/kg | |
| 93FW1565024 | SL | 8260 | 2-Chlorotoluene | ND | 5.1 | ug/kg | |
| 93FW1565024 | SL | 8260 | 4-Chlrortoluene | ND | 5.1 | ug/kg | |
| 93FW1565024 | SL | 8260 | 1,2-Dibromo-3-chloropropane | ND | 5.1 | ug/kg | |
| 93FW1565024 | SL | 8260 | 1,2-Dibromoethane | ND | 5.1 | ug/kg | |
| 93FW1565024 | SL | 8260 | Dibromochloromethane | ND | 5.1 | ug/kg | |
| 93FW1565024 | SL | 8260 | Dibromomethane | ND | 5.1 | ug/kg | |
| 93FW1565024 | SL | 8260 | 1,2-Dichlorobenzene | ND | 5.1 | ug/kg | |
| 93FW1565024 | SL | 8260 | 1,3-Dichlorobenzene | ND | 5.1 | ug/kg | |
| 93FW1565024 | SL | 8260 | 1.4-Dibhlorobenzene | ND | 5.1 | ug/kg | |
| 93FW1565024 | SL | 8260 | Dichlorodifluoromethane | ND | 5.1 | ug/kg | |
| 93FW1565024 | SL | 8260 | 1,1-Dichloroethane | ND | 5.1 | ug/kg | |
| 93FW1565024 | SL | 8260 | 1,2-Dichloroethane | ND | 5.1 | ug/kg | |
| 93FW1565024 | SL | 8260 | 1,1-Dichloroethene | ND | 5.1 | ug/kg | |
| 93FW1565024 | SL | 8260 | cis-1,2-Dichloroethene | ND | 5.1 | ug/kg | |
| 93FW1565024 | SL | 8260 | trans-1,2-Dichloroethene | ND | 5.1 | ug/kg | |
| 93FW1565024 | SL | 8260 | 1,2-Dichloropropane | ND | 5.1 | ug/kg | |
| 93FW1565024 | SL | 8260 | 1,3-Dichloropropane | ND | 5.1 | ug/kg | |
| 93FW1565024 | SL | 8260 | 2,2-Dichloropropane | ND | 5.1 | ug/kg | |
| 93FW1565024 | SL | 8260 | trans-1,3-Dichloropropene | ND | 5.1 | ug/kg | |
| 93FW1565024 | SL | 8260 | 1,1-Dichloropropene | ND | 5.1 | ug/kg | |
| 93FW1565024 | SL | 8260 | cis-1,3-Dichloropropene | ND | 5.1 | ug/kg | |
| 93FW1565024 | SL | 8260 | Ethyl benzene | ND | 5.1 | ug/kg | |
| 93FW1565024 | SL | 8260 | Hexachlorobutadiene | ND | 5.1 | ug/kg | |
| 93FW1565024 | SL | 8260 | Isopropylbenzene | ND | 5.1 | ug/kg | |
| 93FW1565024 | SL | 8260 | p-Isopropyltoluene | ND | 5.1 | ug/kg | |
| 93FW1565024 | SL | 8260 | Methylene chloride | 9.0 | 5.1 | ug/kg | B-O |
| 93FW1565024 | SL | 8260 | Naphthalene | ND | 5.1 | ug/kg | |
| 93FW1565024 | SL | 8260 | n-Propylbenzene | ND | 5.1 | ug/kg | |
| 93FW1565024 | SL | 8260 | Styrene | ND | 5.1 | ug/kg | |
| 93FW1565024 | SL | 8260 | 1,1,1,2-Tetrachloroethane | ND | 5.1 | ug/kg | |
| 93FW1565024 | SL | 8260 | 1,1,2,2,-Tetrachloroethane | ND | 5.1 | ug/kg | |
| 93FW1565024 | SL | 8260 | Tetrachloroethene | ND | 5.1 | ug/kg | |
| 93FW1565024 | SL | 8260 | 1,2,3-Trichlorobenzene | ND | 5.1 | ug/kg | |
| 93FW1565024 | SL | 8260 | 1,2,4-Trichlorobenzene | ND | 5.1 | ug/kg | |
| 93FW1565024 | SL | 8260 | 1,1,1-Trichloroethane | ND | 5.1 | ug/kg | |
| 93FW1565024 | SL | 8260 | 1,1,2-Trichloroethane | ND | 5.1 | ug/kg | |
| 93FW1565024 | SL | 8260 | Trichloroethene | ND | 5.1 | ug/kg | |

# 1993 Building 1565 Soil Data

| Sample Number | | Method | Chemical | Det Conc | Det Limit | Units | Flags |
|---|---|---|---|---|---|---|---|
| 93FW1565024 | SL | 8260 | Trichlorofluoromethane | ND | 5.1 | ug/kg | |
| 93FW1565024 | SL | 8260 | 1,2,3-Trichloropropane | ND | 5.1 | ug/kg | |
| 93FW1565024 | SL | 8260 | 1.2.4-Trimethylbenzene | ND | 5.1 | ug/kg | |
| 93FW1565024 | SL | 8260 | 1,3,5-Trimethylbenzene | ND | 5.1 | ug/kg | |
| 93FW1565024 | SL | 8260 | Toulene | ND | 5.1 | ug/kg | |
| 93FW1565024 | SL | 8260 | Vinyl chloride | ND | 5.1 | ug/kg | |
| 93FW1565024 | SL | 8260 | o-Xylene | ND | 5.1 | ug/kg | |
| 93FW1565024 | SL | 8260 | m & p-Xylene | ND | 5.1 | ug/kg | |
| 93FW1565024 | SL | 8260 | SURROGATE RESULTS | - - | | | |
| 93FW1565024 | SL | 8260 | 4-Bromofluorobenzene (SURR) | 117.0 | | | |
| 93FW1565024 | SL | 8260 | Toluene-d8 (SURR) | 90.0 | | | |
| 93FW1565024 | SL | 8260 | 1,2-Dichloroethane-d4 (SURR) | 97.0 | | | |
| 93FW1565025 | SL | 418.1 | TRPH | 26.0 | 12.0 | mg/kg | |
| 93FW1565025 | SL | 7421 | Lead (GFAA) | 4.5 | 0.2 | mg/kg | |
| 93FW1565025 | SL | 8015M | Gasoline Range Organics | 1.9 | 1.3 | mg/kg | |
| 93FW1565025 | SL | 8015M | SURROGATE RESULTS | - - | | | |
| 93FW1565025 | SL | 8015M | Bromofluorobenzene (SURR) | 87.0 | | | |
| 93FW1565025 | SL | 8100M | Diesel Range Organics | ND | 4.9 | mg/kg | |
| 93FW1565025 | SL | 8100M | SURROGATE RESULTS | - - | | | |
| 93FW1565025 | SL | 8100M | Ortho-terphenyl | 73.0 | | | |
| 93FW1565025 | SL | 8260 | Acetone | ND | 13.0 | ug/kg | |
| 93FW1565025 | SL | 8260 | Benzene | ND | 6.4 | ug/kg | |
| 93FW1565025 | SL | 8260 | Bromobenzene | ND | 6.4 | ug/kg | |
| 93FW1565025 | SL | 8260 | Bromochloromethane | ND | 6.4 | ug/kg | |
| 93FW1565025 | SL | 8260 | Bromodichloromethane | ND | 6.4 | ug/kg | |
| 93FW1565025 | SL | 8260 | Bromoform | ND | 6.4 | ug/kg | |
| 93FW1565025 | SL | 8260 | Bromomethane | ND | 6.4 | ug/kg | |
| 93FW1565025 | SL | 8260 | 2-Butanone | 20.0 | 13.0 | ug/kg | |
| 93FW1565025 | SL | 8260 | n-Butylbenzene | ND | 6.4 | ug/kg | |
| 93FW1565025 | SL | 8260 | sec-Butylbenzene | ND | 6.4 | ug/kg | |
| 93FW1565025 | SL | 8260 | tert-Butylbenzene | ND | 6.4 | ug/kg | |
| 93FW1565025 | SL | 8260 | Carbon Tetrachloride | ND | 6.4 | ug/kg | |
| 93FW1565025 | SL | 8260 | Chlorobenzene | ND | 6.4 | ug/kg | |
| 93FW1565025 | SL | 8260 | Chloroethane | ND | 6.4 | ug/kg | |
| 93FW1565025 | SL | 8260 | Chloroform | ND | 6.4 | ug/kg | |
| 93FW1565025 | SL | 8260 | Chloromethane | ND | 6.4 | ug/kg | |
| 93FW1565025 | SL | 8260 | 2-Chlorotoluene | ND | 6.4 | ug/kg | |
| 93FW1565025 | SL | 8260 | 4-Chlrortoluene | ND | 6.4 | ug/kg | |
| 93FW1565025 | SL | 8260 | 1,2-Dibromo-3-chloropropane | ND | 6.4 | ug/kg | |
| 93FW1565025 | SL | 8260 | 1,2-Dibromoethane | ND | 6.4 | ug/kg | |
| 93FW1565025 | SL | 8260 | Dibromochloromethane | ND | 6.4 | ug/kg | |
| 93FW1565025 | SL | 8260 | Dibromomethane | ND | 6.4 | ug/kg | |
| 93FW1565025 | SL | 8260 | 1,2-Dichlorobenzene | ND | 6.4 | ug/kg | |
| 93FW1565025 | SL | 8260 | 1,3-Dichlorobenzene | ND | 6.4 | ug/kg | |
| 93FW1565025 | SL | 8260 | 1.4-Dibhlorobenzene | ND | 6.4 | ug/kg | |
| 93FW1565025 | SL | 8260 | Dichlorodifluoromethane | ND | 6.4 | ug/kg | |
| 93FW1565025 | SL | 8260 | 1,1-Dichloroethane | ND | 6.4 | ug/kg | |
| 93FW1565025 | SL | 8260 | 1,2-Dichloroethane | ND | 6.4 | ug/kg | |
| 93FW1565025 | SL | 8260 | 1,1-Dichloroethene | ND | 6.4 | ug/kg | |
| 93FW1565025 | SL | 8260 | cis-1,2-Dichloroethene | ND | 6.4 | ug/kg | |
| 93FW1565025 | SL | 8260 | trans-1,2-Dichloroethene | ND | 6.4 | ug/kg | |
| 93FW1565025 | SL | 8260 | 1,2-Dichloropropane | ND | 6.4 | ug/kg | |
| 93FW1565025 | SL | 8260 | 1,3-Dichloropropane | ND | 6.4 | ug/kg | |
| 93FW1565025 | SL | 8260 | 2,2-Dichloropropane | ND | 6.4 | ug/kg | |
| 93FW1565025 | SL | 8260 | trans-1,3-Dichloropropene | ND | 6.4 | ug/kg | |
| 93FW1565025 | SL | 8260 | 1,1-Dichloropropene | ND | 6.4 | ug/kg | |
| 93FW1565025 | SL | 8260 | cis-1,3-Dichloropropene | ND | 6.4 | ug/kg | |
| 93FW1565025 | SL | 8260 | Ethyl benzene | ND | 6.4 | ug/kg | |
| 93FW1565025 | SL | 8260 | Hexachlorobutadiene | ND | 6.4 | ug/kg | |
| 93FW1565025 | SL | 8260 | Isopropylbenzene | ND | 6.4 | ug/kg | |
| 93FW1565025 | SL | 8260 | p-Isopropyltoluene | ND | 6.4 | ug/kg | |
| 93FW1565025 | SL | 8260 | Methylene chloride | 13.0 | 6.4 | ug/kg | B-O |
| 93FW1565025 | SL | 8260 | Naphthalene | ND | 6.4 | ug/kg | |
| 93FW1565025 | SL | 8260 | n-Propylbenzene | ND | 6.4 | ug/kg | |
| 93FW1565025 | SL | 8260 | Styrene | ND | 6.4 | ug/kg | |
| 93FW1565025 | SL | 8260 | 1,1,1,2-Tetrachloroethane | ND | 6.4 | ug/kg | |
| 93FW1565025 | SL | 8260 | 1,1,2,2,-Tetrachloroethane | ND | 6.4 | ug/kg | |
| 93FW1565025 | SL | 8260 | Tetrachloroethene | ND | 6.4 | ug/kg | |

# 1993 Building 1565 Soil Data

| Sample Number | | Method | Chemical | Det Conc | Det Limit | Units | Flags |
|---|---|---|---|---|---|---|---|
| 93FW1565025 | SL | 8260 | 1,2,3-Trichlorobenzene | ND | 6.4 | ug/kg | |
| 93FW1565025 | SL | 8260 | 1,2,4-Trichlorobenzene | ND | 6.4 | ug/kg | |
| 93FW1565025 | SL | 8260 | 1,1,1-Trichloroethane | ND | 6.4 | ug/kg | |
| 93FW1565025 | SL | 8260 | 1,1,2-Trichloroethane | ND | 6.4 | ug/kg | |
| 93FW1565025 | SL | 8260 | Trichloroethene | ND | 6.4 | ug/kg | |
| 93FW1565025 | SL | 8260 | Trichlorofluoromethane | ND | 6.4 | ug/kg | |
| 93FW1565025 | SL | 8260 | 1,2,3-Trichloropropane | ND | 6.4 | ug/kg | |
| 93FW1565025 | SL | 8260 | 1.2.4-Trimethylbenzene | ND | 6.4 | ug/kg | |
| 93FW1565025 | SL | 8260 | 1,3,5-Trimethylbenzene | ND | 6.4 | ug/kg | |
| 93FW1565025 | SL | 8260 | Toulene | ND | 6.4 | ug/kg | |
| 93FW1565025 | SL | 8260 | Vinyl chloride | ND | 6.4 | ug/kg | |
| 93FW1565025 | SL | 8260 | o-Xylene | ND | 6.4 | ug/kg | |
| 93FW1565025 | SL | 8260 | m & p-Xylene | ND | 6.4 | ug/kg | |
| 93FW1565025 | SL | 8260 | SURROGATE RESULTS | - - | | | |
| 93FW1565025 | SL | 8260 | 4-Bromofluorobenzene (SURR) | 116.0 | | | MI |
| 93FW1565025 | SL | 8260 | Toluene-d8 (SURR) | 93.0 | | | |
| 93FW1565025 | SL | 8260 | 1,2-Dichloroethane-d4 (SURR) | 100.0 | | | |
| 93FW1565026 | SL | 418.1 | TRPH | 21.0 | 11.0 | mg/kg | |
| 93FW1565026 | SL | 7421 | Lead (GFAA) | 4.6 | 0.2 | mg/kg | |
| 93FW1565026 | SL | 8015 | Gasoline Range Organics | 2.6 | 1.2 | mg/kg | |
| 93FW1565026 | SL | 8015 | SURROGATE RESULTS | - - | | | |
| 93FW1565026 | SL | 8015 | Bromofluorobenzene (SURR) | 108.0 | | | |
| 93FW1565026 | SL | 8100M | Diesel Range Organics | ND | 4.3 | mg/kg | |
| 93FW1565026 | SL | 8100M | SURROGATE RESULTS | - - | | | |
| 93FW1565026 | SL | 8100M | Ortho-terphenyl (SURR) | 72.0 | | | |
| 93FW1565026 | SL | 8260 | Acetone | 32.0 | 12.0 | ug/kg | B-O |
| 93FW1565026 | SL | 8260 | Benzene | ND | 5.8 | ug/kg | |
| 93FW1565026 | SL | 8260 | Bromobenzene | ND | 5.8 | ug/kg | |
| 93FW1565026 | SL | 8260 | Bromochloromethane | ND | 5.8 | ug/kg | |
| 93FW1565026 | SL | 8260 | Bromodichloromethane | ND | 5.8 | ug/kg | |
| 93FW1565026 | SL | 8260 | Bromoform | ND | 5.8 | ug/kg | |
| 93FW1565026 | SL | 8260 | Bromomethane | ND | 5.8 | ug/kg | |
| 93FW1565026 | SL | 8260 | 2-Butanone | ND | 12.0 | ug/kg | |
| 93FW1565026 | SL | 8260 | n-Butylbenzene | ND | 5.8 | ug/kg | |
| 93FW1565026 | SL | 8260 | sec-Butylbenzene | ND | 5.8 | ug/kg | |
| 93FW1565026 | SL | 8260 | tert-Butylbenzene | ND | 5.8 | ug/kg | |
| 93FW1565026 | SL | 8260 | Carbon Tetrachloride | ND | 5.8 | ug/kg | |
| 93FW1565026 | SL | 8260 | Chlorobenzene | ND | 5.8 | ug/kg | |
| 93FW1565026 | SL | 8260 | Chloroethane | ND | 5.8 | ug/kg | |
| 93FW1565026 | SL | 8260 | Chloroform | ND | 5.8 | ug/kg | |
| 93FW1565026 | SL | 8260 | Chloromethane | ND | 5.8 | ug/kg | |
| 93FW1565026 | SL | 8260 | 2-Chlorotoluene | ND | 5.8 | ug/kg | |
| 93FW1565026 | SL | 8260 | 4-Chlrortoluene | ND | 5.8 | ug/kg | |
| 93FW1565026 | SL | 8260 | 1,2-Dibromo-3-chloropropane | ND | 5.8 | ug/kg | |
| 93FW1565026 | SL | 8260 | 1,2-Dibromoethane | ND | 5.8 | ug/kg | |
| 93FW1565026 | SL | 8260 | Dibromochloromethane | ND | 5.8 | ug/kg | |
| 93FW1565026 | SL | 8260 | Dibromomethane | ND | 5.8 | ug/kg | |
| 93FW1565026 | SL | 8260 | 1,2-Dichlorobenzene | ND | 5.8 | ug/kg | |
| 93FW1565026 | SL | 8260 | 1,3-Dichlorobenzene | ND | 5.8 | ug/kg | |
| 93FW1565026 | SL | 8260 | 1.4-Dibhlorobenzene | ND | 5.8 | ug/kg | |
| 93FW1565026 | SL | 8260 | Dichlorodifluoromethane | ND | 5.8 | ug/kg | |
| 93FW1565026 | SL | 8260 | 1,1-Dichloroethane | ND | 5.8 | ug/kg | |
| 93FW1565026 | SL | 8260 | 1,2-Dichloroethane | ND | 5.8 | ug/kg | |
| 93FW1565026 | SL | 8260 | 1,1-Dichloroethene | ND | 5.8 | ug/kg | |
| 93FW1565026 | SL | 8260 | cis-1,2-Dichloroethene | ND | 5.8 | ug/kg | |
| 93FW1565026 | SL | 8260 | trans-1,2-Dichloroethene | ND | 5.8 | ug/kg | |
| 93FW1565026 | SL | 8260 | 1,2-Dichloropropane | ND | 5.8 | ug/kg | |
| 93FW1565026 | SL | 8260 | 1,3-Dichloropropane | ND | 5.8 | ug/kg | |
| 93FW1565026 | SL | 8260 | 2,2-Dichloropropane | ND | 5.8 | ug/kg | |
| 93FW1565026 | SL | 8260 | trans-1,3-Dichloropropene | ND | 5.8 | ug/kg | |
| 93FW1565026 | SL | 8260 | 1,1-Dichloropropene | ND | 5.8 | ug/kg | |
| 93FW1565026 | SL | 8260 | cis-1,3-Dichloropropene | ND | 5.8 | ug/kg | |
| 93FW1565026 | SL | 8260 | Ethyl benzene | ND | 5.8 | ug/kg | |
| 93FW1565026 | SL | 8260 | Hexachlorobutadiene | ND | 5.8 | ug/kg | |
| 93FW1565026 | SL | 8260 | Isopropylbenzene | ND | 5.8 | ug/kg | |
| 93FW1565026 | SL | 8260 | p-Isopropyltoluene | ND | 5.8 | ug/kg | |
| 93FW1565026 | SL | 8260 | Methylene chloride | 10.0 | 5.8 | ug/kg | B-O |
| 93FW1565026 | SL | 8260 | Naphthalene | ND | 5.8 | ug/kg | |

# 1993 Building 1565 Soil Data

| Sample Number | | Method | Chemical | Det Conc | Det Limit | Units | Flags |
|---|---|---|---|---|---|---|---|
| 93FW1565026 | SL | 8260 | n-Propylbenzene | ND | 5.8 | ug/kg | |
| 93FW1565026 | SL | 8260 | Styrene | ND | 5.8 | ug/kg | |
| 93FW1565026 | SL | 8260 | 1,1,1,2-Tetrachloroethane | ND | 5.8 | ug/kg | |
| 93FW1565026 | SL | 8260 | 1,1,2,2,-Tetrachloroethane | ND | 5.8 | ug/kg | |
| 93FW1565026 | SL | 8260 | Tetrachloroethene | ND | 5.8 | ug/kg | |
| 93FW1565026 | SL | 8260 | 1,2,3-Trichlorobenzene | ND | 5.8 | ug/kg | |
| 93FW1565026 | SL | 8260 | 1,2,4-Trichlorobenzene | ND | 5.8 | ug/kg | |
| 93FW1565026 | SL | 8260 | 1,1,1-Trichloroethane | ND | 5.8 | ug/kg | |
| 93FW1565026 | SL | 8260 | 1,1,2-Trichloroethane | ND | 5.8 | ug/kg | |
| 93FW1565026 | SL | 8260 | Trichloroethene | ND | 5.8 | ug/kg | |
| 93FW1565026 | SL | 8260 | Trichlorofluoromethane | ND | 5.8 | ug/kg | |
| 93FW1565026 | SL | 8260 | 1,2,3-Trichloropropane | ND | 5.8 | ug/kg | |
| 93FW1565026 | SL | 8260 | 1.2.4-Trimethylbenzene | ND | 5.8 | ug/kg | |
| 93FW1565026 | SL | 8260 | 1,3,5-Trimethylbenzene | ND | 5.8 | ug/kg | |
| 93FW1565026 | SL | 8260 | Toulene | ND | 5.8 | ug/kg | |
| 93FW1565026 | SL | 8260 | Vinyl chloride | ND | 5.8 | ug/kg | |
| 93FW1565026 | SL | 8260 | o-Xylene | ND | 5.8 | ug/kg | |
| 93FW1565026 | SL | 8260 | m & p-Xylene | ND | 5.8 | ug/kg | |
| 93FW1565026 | SL | 8260 | SURROGATE RESULTS | - - | | | |
| 93FW1565026 | SL | 8260 | 4-Bromofluorobenzene (SURR) | 113.0 | | | |
| 93FW1565026 | SL | 8260 | Toluene-d8 (SURR) | 99.0 | | | |
| 93FW1565026 | SL | 8260 | 1,2-Dichloroethane-d4 (SURR) | 103.0 | | | |
| 93FW1565027 | SL | 8260 | Acetone | ND | 10.0 | ug/kg | |
| 93FW1565027 | SL | 8260 | Benzene | ND | 5.2 | ug/kg | |
| 93FW1565027 | SL | 8260 | Bromobenzene | ND | 5.2 | ug/kg | |
| 93FW1565027 | SL | 8260 | Bromochloromethane | ND | 5.2 | ug/kg | |
| 93FW1565027 | SL | 8260 | Bromodichloromethane | ND | 5.2 | ug/kg | |
| 93FW1565027 | SL | 8260 | Bromoform | ND | 5.2 | ug/kg | |
| 93FW1565027 | SL | 8260 | Bromomethane | ND | 5.2 | ug/kg | |
| 93FW1565027 | SL | 8260 | 2-Butanone | ND | 10.0 | ug/kg | |
| 93FW1565027 | SL | 8260 | n-Butylbenzene | ND | 5.2 | ug/kg | |
| 93FW1565027 | SL | 8260 | sec-Butylbenzene | ND | 5.2 | ug/kg | |
| 93FW1565027 | SL | 8260 | tert-Butylbenzene | ND | 5.2 | ug/kg | |
| 93FW1565027 | SL | 8260 | Carbon Tetrachloride | ND | 5.2 | ug/kg | |
| 93FW1565027 | SL | 8260 | Chlorobenzene | ND | 5.2 | ug/kg | |
| 93FW1565027 | SL | 8260 | Chloroethane | ND | 5.2 | ug/kg | |
| 93FW1565027 | SL | 8260 | Chloroform | ND | 5.2 | ug/kg | |
| 93FW1565027 | SL | 8260 | Chloromethane | ND | 5.2 | ug/kg | |
| 93FW1565027 | SL | 8260 | 2-Chlorotoluene | ND | 5.2 | ug/kg | |
| 93FW1565027 | SL | 8260 | 4-Chlrortoluene | ND | 5.2 | ug/kg | |
| 93FW1565027 | SL | 8260 | 1,2-Dibromo-3-chloropropane | ND | 5.2 | ug/kg | |
| 93FW1565027 | SL | 8260 | 1,2-Dibromoethane | ND | 5.2 | ug/kg | |
| 93FW1565027 | SL | 8260 | Dibromochloromethane | ND | 5.2 | ug/kg | |
| 93FW1565027 | SL | 8260 | Dibromomethane | ND | 5.2 | ug/kg | |
| 93FW1565027 | SL | 8260 | 1,2-Dichlorobenzene | ND | 5.2 | ug/kg | |
| 93FW1565027 | SL | 8260 | 1,3-Dichlorobenzene | ND | 5.2 | ug/kg | |
| 93FW1565027 | SL | 8260 | 1.4-Dibhlorobenzene | ND | 5.2 | ug/kg | |
| 93FW1565027 | SL | 8260 | Dichlorodifluoromethane | ND | 5.2 | ug/kg | |
| 93FW1565027 | SL | 8260 | 1,1-Dichloroethane | ND | 5.2 | ug/kg | |
| 93FW1565027 | SL | 8260 | 1,2-Dichloroethane | ND | 5.2 | ug/kg | |
| 93FW1565027 | SL | 8260 | 1,1-Dichloroethene | ND | 5.2 | ug/kg | |
| 93FW1565027 | SL | 8260 | cis-1,2-Dichloroethene | ND | 5.2 | ug/kg | |
| 93FW1565027 | SL | 8260 | trans-1,2-Dichloroethene | ND | 5.2 | ug/kg | |
| 93FW1565027 | SL | 8260 | 1,2-Dichloropropane | ND | 5.2 | ug/kg | |
| 93FW1565027 | SL | 8260 | 1,3-Dichloropropane | ND | 5.2 | ug/kg | |
| 93FW1565027 | SL | 8260 | 2,2-Dichloropropane | ND | 5.2 | ug/kg | |
| 93FW1565027 | SL | 8260 | trans-1,3-Dichloropropene | ND | 5.2 | ug/kg | |
| 93FW1565027 | SL | 8260 | 1,1-Dichloropropene | ND | 5.2 | ug/kg | |
| 93FW1565027 | SL | 8260 | cis-1,3-Dichloropropene | ND | 5.2 | ug/kg | |
| 93FW1565027 | SL | 8260 | Ethyl benzene | ND | 5.2 | ug/kg | |
| 93FW1565027 | SL | 8260 | Hexachlorobutadiene | ND | 5.2 | ug/kg | |
| 93FW1565027 | SL | 8260 | Isopropylbenzene | ND | 5.2 | ug/kg | |
| 93FW1565027 | SL | 8260 | p-Isopropyltoluene | ND | 5.2 | ug/kg | |
| 93FW1565027 | SL | 8260 | Methylene chloride | ND | 5.2 | ug/kg | |
| 93FW1565027 | SL | 8260 | Naphthalene | ND | 5.2 | ug/kg | |
| 93FW1565027 | SL | 8260 | n-Propylbenzene | ND | 5.2 | ug/kg | |
| 93FW1565027 | SL | 8260 | Styrene | ND | 5.2 | ug/kg | |
| 93FW1565027 | SL | 8260 | 1,1,1,2-Tetrachloroethane | ND | 5.2 | ug/kg | |

# 1993 Building 1565 Soil Data

| Sample Number | | Method | Chemical | Det Conc | Det Limit | Units | Flags |
|---|---|---|---|---|---|---|---|
| 93FW1565027 | SL | 8260 | 1,1,2,2,-Tetrachloroethane | ND | 5.2 | ug/kg | |
| 93FW1565027 | SL | 8260 | Tetrachloroethene | ND | 5.2 | ug/kg | |
| 93FW1565027 | SL | 8260 | 1,2,3-Trichlorobenzene | ND | 5.2 | ug/kg | |
| 93FW1565027 | SL | 8260 | 1,2,4-Trichlorobenzene | ND | 5.2 | ug/kg | |
| 93FW1565027 | SL | 8260 | 1,1,1-Trichloroethane | ND | 5.2 | ug/kg | |
| 93FW1565027 | SL | 8260 | 1,1,2-Trichloroethane | ND | 5.2 | ug/kg | |
| 93FW1565027 | SL | 8260 | Trichloroethene | ND | 5.2 | ug/kg | |
| 93FW1565027 | SL | 8260 | Trichlorofluoromethane | ND | 5.2 | ug/kg | |
| 93FW1565027 | SL | 8260 | 1,2,3-Trichloropropane | ND | 5.2 | ug/kg | |
| 93FW1565027 | SL | 8260 | 1.2.4-Trimethylbenzene | ND | 5.2 | ug/kg | |
| 93FW1565027 | SL | 8260 | 1,3,5-Trimethylbenzene | ND | 5.2 | ug/kg | |
| 93FW1565027 | SL | 8260 | Toulene | ND | 5.2 | ug/kg | |
| 93FW1565027 | SL | 8260 | Vinyl chloride | ND | 5.2 | ug/kg | |
| 93FW1565027 | SL | 8260 | o-Xylene | ND | 5.2 | ug/kg | |
| 93FW1565027 | SL | 8260 | m & p-Xylene | ND | 5.2 | ug/kg | |
| 93FW1565027 | SL | 8260 | SURROGATE RESULTS | - - | | | |
| 93FW1565027 | SL | 8260 | 4-Bromofluorobenzene (SURR) | 109.0 | | | |
| 93FW1565027 | SL | 8260 | Toluene-d8 (SURR) | 102.0 | | | |
| 93FW1565027 | SL | 8260 | 1,2-Dichloroethane-d4 (SURR) | 105.0 | | | |
| 93FW1565028 | SL | 8260 | Acetone | ND | 10.0 | ug/kg | |
| 93FW1565028 | SL | 8260 | Benzene | ND | 5.0 | ug/kg | |
| 93FW1565028 | SL | 8260 | Bromobenzene | ND | 5.0 | ug/kg | |
| 93FW1565028 | SL | 8260 | Bromochloromethane | ND | 5.0 | ug/kg | |
| 93FW1565028 | SL | 8260 | Bromodichloromethane | ND | 5.0 | ug/kg | |
| 93FW1565028 | SL | 8260 | Bromoform | ND | 5.0 | ug/kg | |
| 93FW1565028 | SL | 8260 | Bromomethane | ND | 5.0 | ug/kg | |
| 93FW1565028 | SL | 8260 | 2-Butanone | ND | 10.0 | ug/kg | |
| 93FW1565028 | SL | 8260 | n-Butylbenzene | ND | 5.0 | ug/kg | |
| 93FW1565028 | SL | 8260 | sec-Butylbenzene | ND | 5.0 | ug/kg | |
| 93FW1565028 | SL | 8260 | tert-Butylbenzene | ND | 5.0 | ug/kg | |
| 93FW1565028 | SL | 8260 | Carbon Tetrachloride | ND | 5.0 | ug/kg | |
| 93FW1565028 | SL | 8260 | Chlorobenzene | ND | 5.0 | ug/kg | |
| 93FW1565028 | SL | 8260 | Chloroethane | ND | 5.0 | ug/kg | |
| 93FW1565028 | SL | 8260 | Chloroform | ND | 5.0 | ug/kg | |
| 93FW1565028 | SL | 8260 | Chloromethane | ND | 5.0 | ug/kg | |
| 93FW1565028 | SL | 8260 | 2-Chlorotoluene | ND | 5.0 | ug/kg | |
| 93FW1565028 | SL | 8260 | 4-Chlrortoluene | ND | 5.0 | ug/kg | |
| 93FW1565028 | SL | 8260 | 1,2-Dibromo-3-chloropropane | ND | 5.0 | ug/kg | |
| 93FW1565028 | SL | 8260 | 1,2-Dibromoethane | ND | 5.0 | ug/kg | |
| 93FW1565028 | SL | 8260 | Dibromochloromethane | ND | 5.0 | ug/kg | |
| 93FW1565028 | SL | 8260 | Dibromomethane | ND | 5.0 | ug/kg | |
| 93FW1565028 | SL | 8260 | 1,2-Dichlorobenzene | ND | 5.0 | ug/kg | |
| 93FW1565028 | SL | 8260 | 1,3-Dichlorobenzene | ND | 5.0 | ug/kg | |
| 93FW1565028 | SL | 8260 | 1.4-Dibhlorobenzene | ND | 5.0 | ug/kg | |
| 93FW1565028 | SL | 8260 | Dichlorodifluoromethane | ND | 5.0 | ug/kg | |
| 93FW1565028 | SL | 8260 | 1,1-Dichloroethane | ND | 5.0 | ug/kg | |
| 93FW1565028 | SL | 8260 | 1,2-Dichloroethane | ND | 5.0 | ug/kg | |
| 93FW1565028 | SL | 8260 | 1,1-Dichloroethene | ND | 5.0 | ug/kg | |
| 93FW1565028 | SL | 8260 | cis-1,2-Dichloroethene | ND | 5.0 | ug/kg | |
| 93FW1565028 | SL | 8260 | trans-1,2-Dichloroethene | ND | 5.0 | ug/kg | |
| 93FW1565028 | SL | 8260 | 1,2-Dichloropropane | ND | 5.0 | ug/kg | |
| 93FW1565028 | SL | 8260 | 1,3-Dichloropropane | ND | 5.0 | ug/kg | |
| 93FW1565028 | SL | 8260 | 2,2-Dichloropropane | ND | 5.0 | ug/kg | |
| 93FW1565028 | SL | 8260 | trans-1,3-Dichloropropene | ND | 5.0 | ug/kg | |
| 93FW1565028 | SL | 8260 | 1,1-Dichloropropene | ND | 5.0 | ug/kg | |
| 93FW1565028 | SL | 8260 | cis-1,3-Dichloropropene | ND | 5.0 | ug/kg | |
| 93FW1565028 | SL | 8260 | Ethyl benzene | ND | 5.0 | ug/kg | |
| 93FW1565028 | SL | 8260 | Hexachlorobutadiene | ND | 5.0 | ug/kg | |
| 93FW1565028 | SL | 8260 | Isopropylbenzene | ND | 5.0 | ug/kg | |
| 93FW1565028 | SL | 8260 | p-Isopropyltoluene | ND | 5.0 | ug/kg | |
| 93FW1565028 | SL | 8260 | Methylene chloride | ND | 5.0 | ug/kg | |
| 93FW1565028 | SL | 8260 | Naphthalene | ND | 5.0 | ug/kg | |
| 93FW1565028 | SL | 8260 | n-Propylbenzene | ND | 5.0 | ug/kg | |
| 93FW1565028 | SL | 8260 | Styrene | ND | 5.0 | ug/kg | |
| 93FW1565028 | SL | 8260 | 1,1,1,2-Tetrachloroethane | ND | 5.0 | ug/kg | |
| 93FW1565028 | SL | 8260 | 1,1,2,2,-Tetrachloroethane | ND | 5.0 | ug/kg | |
| 93FW1565028 | SL | 8260 | Tetrachloroethene | ND | 5.0 | ug/kg | |
| 93FW1565028 | SL | 8260 | 1,2,3-Trichlorobenzene | ND | 5.0 | ug/kg | |

# 1993 Building 1565 Soil Data

| Sample Number | | Method | Chemical | Det Conc | Det Limit | Units | Flags |
|---|---|---|---|---|---|---|---|
| 93FW1565028 | SL | 8260 | 1,2,4-Trichlorobenzene | ND | 5.0 | ug/kg | |
| 93FW1565028 | SL | 8260 | 1,1,1-Trichloroethane | ND | 5.0 | ug/kg | |
| 93FW1565028 | SL | 8260 | 1,1,2-Trichloroethane | ND | 5.0 | ug/kg | |
| 93FW1565028 | SL | 8260 | Trichloroethene | ND | 5.0 | ug/kg | |
| 93FW1565028 | SL | 8260 | Trichlorofluoromethane | ND | 5.0 | ug/kg | |
| 93FW1565028 | SL | 8260 | 1,2,3-Trichloropropane | ND | 5.0 | ug/kg | |
| 93FW1565028 | SL | 8260 | 1.2.4-Trimethylbenzene | ND | 5.0 | ug/kg | |
| 93FW1565028 | SL | 8260 | 1,3,5-Trimethylbenzene | ND | 5.0 | ug/kg | |
| 93FW1565028 | SL | 8260 | Toulene | ND | 5.0 | ug/kg | |
| 93FW1565028 | SL | 8260 | Vinyl chloride | ND | 5.0 | ug/kg | |
| 93FW1565028 | SL | 8260 | o-Xylene | ND | 5.0 | ug/kg | |
| 93FW1565028 | SL | 8260 | m & p-Xylene | ND | 5.0 | ug/kg | |
| 93FW1565028 | SL | 8260 | SURROGATE RESULTS | - - | | | |
| 93FW1565028 | SL | 8260 | 4-Bromofluorobenzene (SURR) | 118.0 | | | MI |
| 93FW1565028 | SL | 8260 | Toluene-d8 (SURR) | 99.0 | | | |
| 93FW1565028 | SL | 8260 | 1,2-Dichloroethane-d4 (SURR) | 100.0 | | | |
| 93FW1565029 | SL | 8260 | Acetone | ND | 11.0 | ug/kg | |
| 93FW1565029 | SL | 8260 | Benzene | ND | 5.3 | ug/kg | |
| 93FW1565029 | SL | 8260 | Bromobenzene | ND | 5.3 | ug/kg | |
| 93FW1565029 | SL | 8260 | Bromochloromethane | ND | 5.3 | ug/kg | |
| 93FW1565029 | SL | 8260 | Bromodichloromethane | ND | 5.3 | ug/kg | |
| 93FW1565029 | SL | 8260 | Bromoform | ND | 5.3 | ug/kg | |
| 93FW1565029 | SL | 8260 | Bromomethane | ND | 5.3 | ug/kg | |
| 93FW1565029 | SL | 8260 | 2-Butanone | ND | 11.0 | ug/kg | |
| 93FW1565029 | SL | 8260 | n-Butylbenzene | ND | 11.0 | ug/kg | |
| 93FW1565029 | SL | 8260 | sec-Butylbenzene | ND | 11.0 | ug/kg | |
| 93FW1565029 | SL | 8260 | tert-Butylbenzene | ND | 11.0 | ug/kg | |
| 93FW1565029 | SL | 8260 | Carbon Tetrachloride | ND | 11.0 | ug/kg | |
| 93FW1565029 | SL | 8260 | Chlorobenzene | ND | 11.0 | ug/kg | |
| 93FW1565029 | SL | 8260 | Chloroethane | ND | 11.0 | ug/kg | |
| 93FW1565029 | SL | 8260 | Chloroform | ND | 11.0 | ug/kg | |
| 93FW1565029 | SL | 8260 | Chloromethane | ND | 11.0 | ug/kg | |
| 93FW1565029 | SL | 8260 | 2-Chlorotoluene | ND | 11.0 | ug/kg | |
| 93FW1565029 | SL | 8260 | 4-Chlrortoluene | ND | 11.0 | ug/kg | |
| 93FW1565029 | SL | 8260 | 1,2-Dibromo-3-chloropropane | ND | 11.0 | ug/kg | |
| 93FW1565029 | SL | 8260 | 1,2-Dibromoethane | ND | 11.0 | ug/kg | |
| 93FW1565029 | SL | 8260 | Dibromochloromethane | ND | 11.0 | ug/kg | |
| 93FW1565029 | SL | 8260 | Dibromomethane | ND | 11.0 | ug/kg | |
| 93FW1565029 | SL | 8260 | 1,2-Dichlorobenzene | ND | 11.0 | ug/kg | |
| 93FW1565029 | SL | 8260 | 1,3-Dichlorobenzene | ND | 11.0 | ug/kg | |
| 93FW1565029 | SL | 8260 | 1.4-Dibhlorobenzene | ND | 11.0 | ug/kg | |
| 93FW1565029 | SL | 8260 | Dichlorodifluoromethane | ND | 11.0 | ug/kg | |
| 93FW1565029 | SL | 8260 | 1,1-Dichloroethane | ND | 11.0 | ug/kg | |
| 93FW1565029 | SL | 8260 | 1,2-Dichloroethane | ND | 11.0 | ug/kg | |
| 93FW1565029 | SL | 8260 | 1,1-Dichloroethene | ND | 11.0 | ug/kg | |
| 93FW1565029 | SL | 8260 | cis-1,2-Dichloroethene | ND | 11.0 | ug/kg | |
| 93FW1565029 | SL | 8260 | trans-1,2-Dichloroethene | ND | 11.0 | ug/kg | |
| 93FW1565029 | SL | 8260 | 1,2-Dichloropropane | ND | 11.0 | ug/kg | |
| 93FW1565029 | SL | 8260 | 1,3-Dichloropropane | ND | 11.0 | ug/kg | |
| 93FW1565029 | SL | 8260 | 2,2-Dichloropropane | ND | 11.0 | ug/kg | |
| 93FW1565029 | SL | 8260 | trans-1,3-Dichloropropene | ND | 11.0 | ug/kg | |
| 93FW1565029 | SL | 8260 | 1,1-Dichloropropene | ND | 11.0 | ug/kg | |
| 93FW1565029 | SL | 8260 | cis-1,3-Dichloropropene | ND | 11.0 | ug/kg | |
| 93FW1565029 | SL | 8260 | Ethyl benzene | ND | 11.0 | ug/kg | |
| 93FW1565029 | SL | 8260 | Hexachlorobutadiene | ND | 11.0 | ug/kg | |
| 93FW1565029 | SL | 8260 | Isopropylbenzene | ND | 11.0 | ug/kg | |
| 93FW1565029 | SL | 8260 | p-Isopropyltoluene | ND | 11.0 | ug/kg | |
| 93FW1565029 | SL | 8260 | Methylene chloride | ND | 11.0 | ug/kg | |
| 93FW1565029 | SL | 8260 | Naphthalene | ND | 11.0 | ug/kg | |
| 93FW1565029 | SL | 8260 | n-Propylbenzene | ND | 11.0 | ug/kg | |
| 93FW1565029 | SL | 8260 | Styrene | ND | 11.0 | ug/kg | |
| 93FW1565029 | SL | 8260 | 1,1,1,2-Tetrachloroethane | ND | 11.0 | ug/kg | |
| 93FW1565029 | SL | 8260 | 1,1,2,2,-Tetrachloroethane | ND | 11.0 | ug/kg | |
| 93FW1565029 | SL | 8260 | Tetrachloroethene | ND | 11.0 | ug/kg | |
| 93FW1565029 | SL | 8260 | 1,2,3-Trichlorobenzene | ND | 11.0 | ug/kg | |
| 93FW1565029 | SL | 8260 | 1,2,4-Trichlorobenzene | ND | 11.0 | ug/kg | |
| 93FW1565029 | SL | 8260 | 1,1,1-Trichloroethane | ND | 11.0 | ug/kg | |
| 93FW1565029 | SL | 8260 | 1,1,2-Trichloroethane | ND | 11.0 | ug/kg | |

# 1993 Building 1565 Soil Data

| Sample Number | | Method | Chemical | Det Conc | Det Limit | Units | Flags |
|---|---|---|---|---|---|---|---|
| 93FW1565029 | SL | 8260 | Trichloroethene | ND | 11.0 | ug/kg | |
| 93FW1565029 | SL | 8260 | Trichlorofluoromethane | ND | 11.0 | ug/kg | |
| 93FW1565029 | SL | 8260 | 1,2,3-Trichloropropane | ND | 11.0 | ug/kg | |
| 93FW1565029 | SL | 8260 | 1.2.4-Trimethylbenzene | ND | 11.0 | ug/kg | |
| 93FW1565029 | SL | 8260 | 1,3,5-Trimethylbenzene | ND | 11.0 | ug/kg | |
| 93FW1565029 | SL | 8260 | Toulene | ND | 11.0 | ug/kg | |
| 93FW1565029 | SL | 8260 | Vinyl chloride | ND | 11.0 | ug/kg | |
| 93FW1565029 | SL | 8260 | o-Xylene | ND | 11.0 | ug/kg | |
| 93FW1565029 | SL | 8260 | m & p-Xylene | ND | 11.0 | ug/kg | |
| 93FW1565029 | SL | 8260 | SURROGATE RESULTS | - - | | | |
| 93FW1565029 | SL | 8260 | 4-Bromofluorobenzene (SURR) | 116.0 | | | MI |
| 93FW1565029 | SL | 8260 | Toluene-d8 (SURR) | 85.0 | | | |
| 93FW1565029 | SL | 8260 | 1,2-Dichloroethane-d4 (SURR) | 104.0 | | | |
| 93FW1565030 | SL | 8260 | Acetone | 17.0 | 12.0 | ug/kg | |
| 93FW1565030 | SL | 8260 | Benzene | ND | 6.2 | ug/kg | |
| 93FW1565030 | SL | 8260 | Bromobenzene | ND | 6.2 | ug/kg | |
| 93FW1565030 | SL | 8260 | Bromochloromethane | ND | 6.2 | ug/kg | |
| 93FW1565030 | SL | 8260 | Bromodichloromethane | ND | 6.2 | ug/kg | |
| 93FW1565030 | SL | 8260 | Bromoform | ND | 6.2 | ug/kg | |
| 93FW1565030 | SL | 8260 | Bromomethane | ND | 6.2 | ug/kg | |
| 93FW1565030 | SL | 8260 | 2-Butanone | ND | 12.0 | ug/kg | |
| 93FW1565030 | SL | 8260 | n-Butylbenzene | ND | 6.2 | ug/kg | |
| 93FW1565030 | SL | 8260 | sec-Butylbenzene | ND | 6.2 | ug/kg | |
| 93FW1565030 | SL | 8260 | tert-Butylbenzene | ND | 6.2 | ug/kg | |
| 93FW1565030 | SL | 8260 | Carbon Tetrachloride | ND | 6.2 | ug/kg | |
| 93FW1565030 | SL | 8260 | Chlorobenzene | ND | 6.2 | ug/kg | |
| 93FW1565030 | SL | 8260 | Chloroethane | ND | 6.2 | ug/kg | |
| 93FW1565030 | SL | 8260 | Chloroform | ND | 6.2 | ug/kg | |
| 93FW1565030 | SL | 8260 | Chloromethane | ND | 6.2 | ug/kg | |
| 93FW1565030 | SL | 8260 | 2-Chlorotoluene | ND | 6.2 | ug/kg | |
| 93FW1565030 | SL | 8260 | 4-Chlrortoluene | ND | 6.2 | ug/kg | |
| 93FW1565030 | SL | 8260 | 1,2-Dibromo-3-chloropropane | ND | 6.2 | ug/kg | |
| 93FW1565030 | SL | 8260 | 1,2-Dibromoethane | ND | 6.2 | ug/kg | |
| 93FW1565030 | SL | 8260 | Dibromochloromethane | ND | 6.2 | ug/kg | |
| 93FW1565030 | SL | 8260 | Dibromomethane | ND | 6.2 | ug/kg | |
| 93FW1565030 | SL | 8260 | 1,2-Dichlorobenzene | ND | 6.2 | ug/kg | |
| 93FW1565030 | SL | 8260 | 1,3-Dichlorobenzene | ND | 6.2 | ug/kg | |
| 93FW1565030 | SL | 8260 | 1.4-Dibhlorobenzene | ND | 6.2 | ug/kg | |
| 93FW1565030 | SL | 8260 | Dichlorodifluoromethane | ND | 6.2 | ug/kg | |
| 93FW1565030 | SL | 8260 | 1,1-Dichloroethane | ND | 6.2 | ug/kg | |
| 93FW1565030 | SL | 8260 | 1,2-Dichloroethane | ND | 6.2 | ug/kg | |
| 93FW1565030 | SL | 8260 | 1,1-Dichloroethene | ND | 6.2 | ug/kg | |
| 93FW1565030 | SL | 8260 | cis-1,2-Dichloroethene | ND | 6.2 | ug/kg | |
| 93FW1565030 | SL | 8260 | trans-1,2-Dichloroethene | ND | 6.2 | ug/kg | |
| 93FW1565030 | SL | 8260 | 1,2-Dichloropropane | ND | 6.2 | ug/kg | |
| 93FW1565030 | SL | 8260 | 1,3-Dichloropropane | ND | 6.2 | ug/kg | |
| 93FW1565030 | SL | 8260 | 2,2-Dichloropropane | ND | 6.2 | ug/kg | |
| 93FW1565030 | SL | 8260 | trans-1,3-Dichloropropene | ND | 6.2 | ug/kg | |
| 93FW1565030 | SL | 8260 | 1,1-Dichloropropene | ND | 6.2 | ug/kg | |
| 93FW1565030 | SL | 8260 | cis-1,3-Dichloropropene | ND | 6.2 | ug/kg | |
| 93FW1565030 | SL | 8260 | Ethyl benzene | ND | 6.2 | ug/kg | |
| 93FW1565030 | SL | 8260 | Hexachlorobutadiene | ND | 6.2 | ug/kg | |
| 93FW1565030 | SL | 8260 | Isopropylbenzene | ND | 6.2 | ug/kg | |
| 93FW1565030 | SL | 8260 | p-Isopropyltoluene | ND | 6.2 | ug/kg | |
| 93FW1565030 | SL | 8260 | Methylene chloride | 15.0 | 6.2 | ug/kg | B-O |
| 93FW1565030 | SL | 8260 | Naphthalene | ND | 6.2 | ug/kg | |
| 93FW1565030 | SL | 8260 | n-Propylbenzene | ND | 6.2 | ug/kg | |
| 93FW1565030 | SL | 8260 | Styrene | ND | 6.2 | ug/kg | |
| 93FW1565030 | SL | 8260 | 1,1,1,2-Tetrachloroethane | ND | 6.2 | ug/kg | |
| 93FW1565030 | SL | 8260 | 1,1,2,2,-Tetrachloroethane | ND | 6.2 | ug/kg | |
| 93FW1565030 | SL | 8260 | Tetrachloroethene | ND | 6.2 | ug/kg | |
| 93FW1565030 | SL | 8260 | 1,2,3-Trichlorobenzene | ND | 6.2 | ug/kg | |
| 93FW1565030 | SL | 8260 | 1,2,4-Trichlorobenzene | ND | 6.2 | ug/kg | |
| 93FW1565030 | SL | 8260 | 1,1,1-Trichloroethane | ND | 6.2 | ug/kg | |
| 93FW1565030 | SL | 8260 | 1,1,2-Trichloroethane | ND | 6.2 | ug/kg | |
| 93FW1565030 | SL | 8260 | Trichloroethene | ND | 6.2 | ug/kg | |
| 93FW1565030 | SL | 8260 | Trichlorofluoromethane | ND | 6.2 | ug/kg | |
| 93FW1565030 | SL | 8260 | 1,2,3-Trichloropropane | ND | 6.2 | ug/kg | |

# 1993 Building 1565 Soil Data

| Sample Number | | Method | Chemical | Det Conc | Det Limit | Units | Flags |
|---|---|---|---|---|---|---|---|
| 93FW1565030 | SL | 8260 | 1.2.4-Trimethylbenzene | ND | 6.2 | ug/kg | |
| 93FW1565030 | SL | 8260 | 1,3,5-Trimethylbenzene | ND | 6.2 | ug/kg | |
| 93FW1565030 | SL | 8260 | Toulene | ND | 6.2 | ug/kg | |
| 93FW1565030 | SL | 8260 | Vinyl chloride | ND | 6.2 | ug/kg | |
| 93FW1565030 | SL | 8260 | o-Xylene | ND | 6.2 | ug/kg | |
| 93FW1565030 | SL | 8260 | m & p-Xylene | ND | 6.2 | ug/kg | |
| 93FW1565030 | SL | 8260 | SURROGATE RESULTS | - - | | | |
| 93FW1565030 | SL | 8260 | 4-Bromofluorobenzene (SURR) | 112.0 | | | |
| 93FW1565030 | SL | 8260 | Toluene-d8 (SURR) | 97.0 | | | |
| 93FW1565030 | SL | 8260 | 1,2-Dichloroethane-d4 (SURR) | 96.0 | | | |
| 93FW1565031 | SL | 418.1 | TRPH | 953.0 | 13.0 | mg/kg | |
| 93FW1565031 | SL | 7421 | Lead (GFAA) | 12.0 | 0.3 | mg/kg | |
| 93FW1565031 | SL | 8015M | Gasoline Range Organics | ND | 1.1 | mg/kg | |
| 93FW1565031 | SL | 8015M | SURROGATE RESULTS | - - | | | |
| 93FW1565031 | SL | 8015M | Bromofluorobenzene (SURR) | 86.0 | | | |
| 93FW1565031 | SL | 8100M | Diesel Range Organics | 5.4 | | mg/kg | |
| 93FW1565031 | SL | 8100M | SURROGATE RESULTS | - - | | | |
| 93FW1565031 | SL | 8100M | Ortho-terphenyl (SURR) | 70.0 | | | |
| 93FW1565031 | SL | 8260 | Acetone | ND | 11.0 | ug/kg | |
| 93FW1565031 | SL | 8260 | Benzene | ND | 5.5 | ug/kg | |
| 93FW1565031 | SL | 8260 | Bromobenzene | ND | 5.5 | ug/kg | |
| 93FW1565031 | SL | 8260 | Bromochloromethane | ND | 5.5 | ug/kg | |
| 93FW1565031 | SL | 8260 | Bromodichloromethane | ND | 5.5 | ug/kg | |
| 93FW1565031 | SL | 8260 | Bromoform | ND | 5.5 | ug/kg | |
| 93FW1565031 | SL | 8260 | Bromomethane | ND | 5.5 | ug/kg | |
| 93FW1565031 | SL | 8260 | 2-Butanone | ND | 11.0 | ug/kg | |
| 93FW1565031 | SL | 8260 | n-Butylbenzene | ND | 5.5 | ug/kg | |
| 93FW1565031 | SL | 8260 | sec-Butylbenzene | ND | 5.5 | ug/kg | |
| 93FW1565031 | SL | 8260 | tert-Butylbenzene | ND | 5.5 | ug/kg | |
| 93FW1565031 | SL | 8260 | Carbon Tetrachloride | ND | 5.5 | ug/kg | |
| 93FW1565031 | SL | 8260 | Chlorobenzene | ND | 5.5 | ug/kg | |
| 93FW1565031 | SL | 8260 | Chloroethane | ND | 5.5 | ug/kg | |
| 93FW1565031 | SL | 8260 | Chloroform | ND | 5.5 | ug/kg | |
| 93FW1565031 | SL | 8260 | Chloromethane | ND | 5.5 | ug/kg | |
| 93FW1565031 | SL | 8260 | 2-Chlorotoluene | ND | 5.5 | ug/kg | |
| 93FW1565031 | SL | 8260 | 4-Chlrortoluene | ND | 5.5 | ug/kg | |
| 93FW1565031 | SL | 8260 | 1,2-Dibromo-3-chloropropane | ND | 5.5 | ug/kg | |
| 93FW1565031 | SL | 8260 | 1,2-Dibromoethane | ND | 5.5 | ug/kg | |
| 93FW1565031 | SL | 8260 | Dibromochloromethane | ND | 5.5 | ug/kg | |
| 93FW1565031 | SL | 8260 | Dibromomethane | ND | 5.5 | ug/kg | |
| 93FW1565031 | SL | 8260 | 1,2-Dichlorobenzene | ND | 5.5 | ug/kg | |
| 93FW1565031 | SL | 8260 | 1,3-Dichlorobenzene | ND | 5.5 | ug/kg | |
| 93FW1565031 | SL | 8260 | 1.4-Dibhlorobenzene | ND | 5.5 | ug/kg | |
| 93FW1565031 | SL | 8260 | Dichlorodifluoromethane | ND | 5.5 | ug/kg | |
| 93FW1565031 | SL | 8260 | 1,1-Dichloroethane | ND | 5.5 | ug/kg | |
| 93FW1565031 | SL | 8260 | 1,2-Dichloroethane | ND | 5.5 | ug/kg | |
| 93FW1565031 | SL | 8260 | 1,1-Dichloroethene | ND | 5.5 | ug/kg | |
| 93FW1565031 | SL | 8260 | cis-1,2-Dichloroethene | ND | 5.5 | ug/kg | |
| 93FW1565031 | SL | 8260 | trans-1,2-Dichloroethene | ND | 5.5 | ug/kg | |
| 93FW1565031 | SL | 8260 | 1,2-Dichloropropane | ND | 5.5 | ug/kg | |
| 93FW1565031 | SL | 8260 | 1,3-Dichloropropane | ND | 5.5 | ug/kg | |
| 93FW1565031 | SL | 8260 | 2,2-Dichloropropane | ND | 5.5 | ug/kg | |
| 93FW1565031 | SL | 8260 | trans-1,3-Dichloropropene | ND | 5.5 | ug/kg | |
| 93FW1565031 | SL | 8260 | 1,1-Dichloropropene | ND | 5.5 | ug/kg | |
| 93FW1565031 | SL | 8260 | cis-1,3-Dichloropropene | ND | 5.5 | ug/kg | |
| 93FW1565031 | SL | 8260 | Ethyl benzene | ND | 5.5 | ug/kg | |
| 93FW1565031 | SL | 8260 | Hexachlorobutadiene | ND | 5.5 | ug/kg | |
| 93FW1565031 | SL | 8260 | Isopropylbenzene | ND | 5.5 | ug/kg | |
| 93FW1565031 | SL | 8260 | p-Isopropyltoluene | ND | 5.5 | ug/kg | |
| 93FW1565031 | SL | 8260 | Methylene chloride | 14.0 | 5.5 | ug/kg | B-O |
| 93FW1565031 | SL | 8260 | Naphthalene | ND | 5.5 | ug/kg | |
| 93FW1565031 | SL | 8260 | n-Propylbenzene | ND | 5.5 | ug/kg | |
| 93FW1565031 | SL | 8260 | Styrene | ND | 5.5 | ug/kg | |
| 93FW1565031 | SL | 8260 | 1,1,1,2-Tetrachloroethane | ND | 5.5 | ug/kg | |
| 93FW1565031 | SL | 8260 | 1,1,2,2,-Tetrachloroethane | ND | 5.5 | ug/kg | |
| 93FW1565031 | SL | 8260 | Tetrachloroethene | ND | 5.5 | ug/kg | |
| 93FW1565031 | SL | 8260 | 1,2,3-Trichlorobenzene | ND | 5.5 | ug/kg | |
| 93FW1565031 | SL | 8260 | 1,2,4-Trichlorobenzene | ND | 5.5 | ug/kg | |

# 1993 Building 1565 Soil Data

| Sample Number | | Method | Chemical | Det Conc | Det Limit | Units | Flags |
|---|---|---|---|---|---|---|---|
| 93FW1565031 | SL | 8260 | 1,1,1-Trichloroethane | ND | 5.5 | ug/kg | |
| 93FW1565031 | SL | 8260 | 1,1,2-Trichloroethane | ND | 5.5 | ug/kg | |
| 93FW1565031 | SL | 8260 | Trichloroethene | ND | 5.5 | ug/kg | |
| 93FW1565031 | SL | 8260 | Trichlorofluoromethane | ND | 5.5 | ug/kg | |
| 93FW1565031 | SL | 8260 | 1,2,3-Trichloropropane | ND | 5.5 | ug/kg | |
| 93FW1565031 | SL | 8260 | 1.2.4-Trimethylbenzene | ND | 5.5 | ug/kg | |
| 93FW1565031 | SL | 8260 | 1,3,5-Trimethylbenzene | ND | 5.5 | ug/kg | |
| 93FW1565031 | SL | 8260 | Toulene | ND | 5.5 | ug/kg | |
| 93FW1565031 | SL | 8260 | Vinyl chloride | ND | 5.5 | ug/kg | |
| 93FW1565031 | SL | 8260 | o-Xylene | ND | 5.5 | ug/kg | |
| 93FW1565031 | SL | 8260 | m & p-Xylene | ND | 5.5 | ug/kg | |
| 93FW1565031 | SL | 8260 | SURROGATE RESULTS | - - | | | |
| 93FW1565031 | SL | 8260 | 4-Bromofluorobenzene (SURR) | 112.0 | | | MI |
| 93FW1565031 | SL | 8260 | Toluene-d8 (SURR) | 77.0 | | | |
| 93FW1565031 | SL | 8260 | 1,2-Dichloroethane-d4 (SURR) | 102.0 | | | |
| 93FW1565032 | SL | 418.1 | TRPH | 38.0 | 11.0 | mg/kg | |
| 93FW1565032 | SL | 7421 | Lead (GFAA) | 7.6 | 0.2 | mg/kg | |
| 93FW1565032 | SL | 8015M | Gasoline Range Organics | ND | 1.2 | | |
| 93FW1565032 | SL | 8015M | SURROGATE RESULTS | - - | | | |
| 93FW1565032 | SL | 8015M | Bromofluorobenzene (SURR) | 79.0 | | | |
| 93FW1565032 | SL | 8100M | Diesel Range Organics | 11.0 | 4.4 | mg/kg | |
| 93FW1565032 | SL | 8100M | SURROGATE RESULTS | - - | | | |
| 93FW1565032 | SL | 8100M | Ortho-terphenyl (SURR) | 72.0 | | | |
| 93FW1565032 | SL | 8260 | Acetone | 12.0 | 12.0 | ug/kg | B-O |
| 93FW1565032 | SL | 8260 | Benzene | ND | 6.1 | ug/kg | |
| 93FW1565032 | SL | 8260 | Bromobenzene | ND | 6.1 | ug/kg | |
| 93FW1565032 | SL | 8260 | Bromochloromethane | ND | 6.1 | ug/kg | |
| 93FW1565032 | SL | 8260 | Bromodichloromethane | ND | 6.1 | ug/kg | |
| 93FW1565032 | SL | 8260 | Bromoform | ND | 6.1 | ug/kg | |
| 93FW1565032 | SL | 8260 | Bromomethane | ND | 6.1 | ug/kg | |
| 93FW1565032 | SL | 8260 | 2-Butanone | ND | 12.0 | ug/kg | |
| 93FW1565032 | SL | 8260 | n-Butylbenzene | ND | 6.1 | ug/kg | |
| 93FW1565032 | SL | 8260 | sec-Butylbenzene | ND | 6.1 | ug/kg | |
| 93FW1565032 | SL | 8260 | tert-Butylbenzene | ND | 6.1 | ug/kg | |
| 93FW1565032 | SL | 8260 | Carbon Tetrachloride | ND | 6.1 | ug/kg | |
| 93FW1565032 | SL | 8260 | Chlorobenzene | ND | 6.1 | ug/kg | |
| 93FW1565032 | SL | 8260 | Chloroethane | ND | 6.1 | ug/kg | |
| 93FW1565032 | SL | 8260 | Chloroform | ND | 6.1 | ug/kg | |
| 93FW1565032 | SL | 8260 | Chloromethane | ND | 6.1 | ug/kg | |
| 93FW1565032 | SL | 8260 | 2-Chlorotoluene | ND | 6.1 | ug/kg | |
| 93FW1565032 | SL | 8260 | 4-Chlrortoluene | ND | 6.1 | ug/kg | |
| 93FW1565032 | SL | 8260 | 1,2-Dibromo-3-chloropropane | ND | 6.1 | ug/kg | |
| 93FW1565032 | SL | 8260 | 1,2-Dibromoethane | ND | 6.1 | ug/kg | |
| 93FW1565032 | SL | 8260 | Dibromochloromethane | ND | 6.1 | ug/kg | |
| 93FW1565032 | SL | 8260 | Dibromomethane | ND | 6.1 | ug/kg | |
| 93FW1565032 | SL | 8260 | 1,2-Dichlorobenzene | ND | 6.1 | ug/kg | |
| 93FW1565032 | SL | 8260 | 1,3-Dichlorobenzene | ND | 6.1 | ug/kg | |
| 93FW1565032 | SL | 8260 | 1.4-Dibhlorobenzene | ND | 6.1 | ug/kg | |
| 93FW1565032 | SL | 8260 | Dichlorodifluoromethane | ND | 6.1 | ug/kg | |
| 93FW1565032 | SL | 8260 | 1,1-Dichloroethane | ND | 6.1 | ug/kg | |
| 93FW1565032 | SL | 8260 | 1,2-Dichloroethane | ND | 6.1 | ug/kg | |
| 93FW1565032 | SL | 8260 | 1,1-Dichloroethene | ND | 6.1 | ug/kg | |
| 93FW1565032 | SL | 8260 | cis-1,2-Dichloroethene | ND | 6.1 | ug/kg | |
| 93FW1565032 | SL | 8260 | trans-1,2-Dichloroethene | ND | 6.1 | ug/kg | |
| 93FW1565032 | SL | 8260 | 1,2-Dichloropropane | ND | 6.1 | ug/kg | |
| 93FW1565032 | SL | 8260 | 1,3-Dichloropropane | ND | 6.1 | ug/kg | |
| 93FW1565032 | SL | 8260 | 2,2-Dichloropropane | ND | 6.1 | ug/kg | |
| 93FW1565032 | SL | 8260 | trans-1,3-Dichloropropene | ND | 6.1 | ug/kg | |
| 93FW1565032 | SL | 8260 | 1,1-Dichloropropene | ND | 6.1 | ug/kg | |
| 93FW1565032 | SL | 8260 | cis-1,3-Dichloropropene | ND | 6.1 | ug/kg | |
| 93FW1565032 | SL | 8260 | Ethyl benzene | ND | 6.1 | ug/kg | |
| 93FW1565032 | SL | 8260 | Hexachlorobutadiene | ND | 6.1 | ug/kg | |
| 93FW1565032 | SL | 8260 | Isopropylbenzene | ND | 6.1 | ug/kg | |
| 93FW1565032 | SL | 8260 | p-Isopropyltoluene | ND | 6.1 | ug/kg | |
| 93FW1565032 | SL | 8260 | Methylene chloride | 15.0 | 6.1 | ug/kg | B-O |
| 93FW1565032 | SL | 8260 | Naphthalene | ND | 6.1 | ug/kg | |
| 93FW1565032 | SL | 8260 | n-Propylbenzene | ND | 6.1 | ug/kg | |
| 93FW1565032 | SL | 8260 | Styrene | ND | 6.1 | ug/kg | |

# 1993 Building 1565 Soil Data

| Sample Number | | Method | Chemical | Det Conc | Det Limit | Units | Flags |
|---|---|---|---|---|---|---|---|
| 93FW1565032 | SL | 8260 | 1,1,1,2-Tetrachloroethane | ND | 6.1 | ug/kg | |
| 93FW1565032 | SL | 8260 | 1,1,2,2,-Tetrachloroethane | ND | 6.1 | ug/kg | |
| 93FW1565032 | SL | 8260 | Tetrachloroethene | ND | 6.1 | ug/kg | |
| 93FW1565032 | SL | 8260 | 1,2,3-Trichlorobenzene | ND | 6.1 | ug/kg | |
| 93FW1565032 | SL | 8260 | 1,2,4-Trichlorobenzene | ND | 6.1 | ug/kg | |
| 93FW1565032 | SL | 8260 | 1,1,1-Trichloroethane | ND | 6.1 | ug/kg | |
| 93FW1565032 | SL | 8260 | 1,1,2-Trichloroethane | ND | 6.1 | ug/kg | |
| 93FW1565032 | SL | 8260 | Trichloroethene | ND | 6.1 | ug/kg | |
| 93FW1565032 | SL | 8260 | Trichlorofluoromethane | ND | 6.1 | ug/kg | |
| 93FW1565032 | SL | 8260 | 1,2,3-Trichloropropane | ND | 6.1 | ug/kg | |
| 93FW1565032 | SL | 8260 | 1.2.4-Trimethylbenzene | ND | 6.1 | ug/kg | |
| 93FW1565032 | SL | 8260 | 1,3,5-Trimethylbenzene | ND | 6.1 | ug/kg | |
| 93FW1565032 | SL | 8260 | Toulene | ND | 6.1 | ug/kg | |
| 93FW1565032 | SL | 8260 | Vinyl chloride | ND | 6.1 | ug/kg | |
| 93FW1565032 | SL | 8260 | o-Xylene | ND | 6.1 | ug/kg | |
| 93FW1565032 | SL | 8260 | m & p-Xylene | ND | 6.1 | ug/kg | |
| 93FW1565032 | SL | 8260 | SURROGATE RESULTS | - - | | | |
| 93FW1565032 | SL | 8260 | 4-Bromofluorobenzene (SURR) | 129.0 | | | MI |
| 93FW1565032 | SL | 8260 | Toluene-d8 (SURR) | 77.0 | | | |
| 93FW1565032 | SL | 8260 | 1,2-Dichloroethane-d4 (SURR) | 103.0 | | | |
| 93FW1565033 | SL | 8260 | Acetone | 10.0 | 10.0 | ug/kg | B-O |
| 93FW1565033 | SL | 8260 | Benzene | ND | 5.3 | ug/kg | |
| 93FW1565033 | SL | 8260 | Bromobenzene | ND | 5.3 | ug/kg | |
| 93FW1565033 | SL | 8260 | Bromochloromethane | ND | 5.3 | ug/kg | |
| 93FW1565033 | SL | 8260 | Bromodichloromethane | ND | 5.3 | ug/kg | |
| 93FW1565033 | SL | 8260 | Bromoform | ND | 5.3 | ug/kg | |
| 93FW1565033 | SL | 8260 | Bromomethane | ND | 5.3 | ug/kg | |
| 93FW1565033 | SL | 8260 | 2-Butanone | ND | 10.0 | ug/kg | |
| 93FW1565033 | SL | 8260 | n-Butylbenzene | ND | 5.3 | ug/kg | |
| 93FW1565033 | SL | 8260 | sec-Butylbenzene | ND | 5.3 | ug/kg | |
| 93FW1565033 | SL | 8260 | tert-Butylbenzene | ND | 5.3 | ug/kg | |
| 93FW1565033 | SL | 8260 | Carbon Tetrachloride | ND | 5.3 | ug/kg | |
| 93FW1565033 | SL | 8260 | Chlorobenzene | ND | 5.3 | ug/kg | |
| 93FW1565033 | SL | 8260 | Chloroethane | ND | 5.3 | ug/kg | |
| 93FW1565033 | SL | 8260 | Chloroform | ND | 5.3 | ug/kg | |
| 93FW1565033 | SL | 8260 | Chloromethane | ND | 5.3 | ug/kg | |
| 93FW1565033 | SL | 8260 | 2-Chlorotoluene | ND | 5.3 | ug/kg | |
| 93FW1565033 | SL | 8260 | 4-Chlrortoluene | ND | 5.3 | ug/kg | |
| 93FW1565033 | SL | 8260 | 1,2-Dibromo-3-chloropropane | ND | 5.3 | ug/kg | |
| 93FW1565033 | SL | 8260 | 1,2-Dibromoethane | ND | 5.3 | ug/kg | |
| 93FW1565033 | SL | 8260 | Dibromochloromethane | ND | 5.3 | ug/kg | |
| 93FW1565033 | SL | 8260 | Dibromomethane | ND | 5.3 | ug/kg | |
| 93FW1565033 | SL | 8260 | 1,2-Dichlorobenzene | ND | 5.3 | ug/kg | |
| 93FW1565033 | SL | 8260 | 1,3-Dichlorobenzene | ND | 5.3 | ug/kg | |
| 93FW1565033 | SL | 8260 | 1.4-Dibhlorobenzene | ND | 5.3 | ug/kg | |
| 93FW1565033 | SL | 8260 | Dichlorodifluoromethane | ND | 5.3 | ug/kg | |
| 93FW1565033 | SL | 8260 | 1,1-Dichloroethane | ND | 5.3 | ug/kg | |
| 93FW1565033 | SL | 8260 | 1,2-Dichloroethane | ND | 5.3 | ug/kg | |
| 93FW1565033 | SL | 8260 | 1,1-Dichloroethene | ND | 5.3 | ug/kg | |
| 93FW1565033 | SL | 8260 | cis-1,2-Dichloroethene | ND | 5.3 | ug/kg | |
| 93FW1565033 | SL | 8260 | trans-1,2-Dichloroethene | ND | 5.3 | ug/kg | |
| 93FW1565033 | SL | 8260 | 1,2-Dichloropropane | ND | 5.3 | ug/kg | |
| 93FW1565033 | SL | 8260 | 1,3-Dichloropropane | ND | 5.3 | ug/kg | |
| 93FW1565033 | SL | 8260 | 2,2-Dichloropropane | ND | 5.3 | ug/kg | |
| 93FW1565033 | SL | 8260 | trans-1,3-Dichloropropene | ND | 5.3 | ug/kg | |
| 93FW1565033 | SL | 8260 | 1,1-Dichloropropene | ND | 5.3 | ug/kg | |
| 93FW1565033 | SL | 8260 | cis-1,3-Dichloropropene | ND | 5.3 | ug/kg | |
| 93FW1565033 | SL | 8260 | Ethyl benzene | ND | 5.3 | ug/kg | |
| 93FW1565033 | SL | 8260 | Hexachlorobutadiene | ND | 5.3 | ug/kg | |
| 93FW1565033 | SL | 8260 | Isopropylbenzene | ND | 5.3 | ug/kg | |
| 93FW1565033 | SL | 8260 | p-Isopropyltoluene | ND | 5.3 | ug/kg | |
| 93FW1565033 | SL | 8260 | Methylene chloride | 10.0 | 5.3 | ug/kg | B-O |
| 93FW1565033 | SL | 8260 | Naphthalene | ND | 5.3 | ug/kg | |
| 93FW1565033 | SL | 8260 | n-Propylbenzene | ND | 5.3 | ug/kg | |
| 93FW1565033 | SL | 8260 | Styrene | ND | 5.3 | ug/kg | |
| 93FW1565033 | SL | 8260 | 1,1,1,2-Tetrachloroethane | ND | 5.3 | ug/kg | |
| 93FW1565033 | SL | 8260 | 1,1,2,2,-Tetrachloroethane | ND | 5.3 | ug/kg | |
| 93FW1565033 | SL | 8260 | Tetrachloroethene | ND | 5.3 | ug/kg | |

# 1993 Building 1565 Soil Data

| Sample Number | | Method | Chemical | Det Conc | Det Limit | Units | Flags |
|---|---|---|---|---|---|---|---|
| 93FW1565033 | SL | 8260 | 1,2,3-Trichlorobenzene | ND | 5.3 | ug/kg | |
| 93FW1565033 | SL | 8260 | 1,2,4-Trichlorobenzene | ND | 5.3 | ug/kg | |
| 93FW1565033 | SL | 8260 | 1,1,1-Trichloroethane | ND | 5.3 | ug/kg | |
| 93FW1565033 | SL | 8260 | 1,1,2-Trichloroethane | ND | 5.3 | ug/kg | |
| 93FW1565033 | SL | 8260 | Trichloroethene | ND | 5.3 | ug/kg | |
| 93FW1565033 | SL | 8260 | Trichlorofluoromethane | ND | 5.3 | ug/kg | |
| 93FW1565033 | SL | 8260 | 1,2,3-Trichloropropane | ND | 5.3 | ug/kg | |
| 93FW1565033 | SL | 8260 | 1.2.4-Trimethylbenzene | ND | 5.3 | ug/kg | |
| 93FW1565033 | SL | 8260 | 1,3,5-Trimethylbenzene | ND | 5.3 | ug/kg | |
| 93FW1565033 | SL | 8260 | Toulene | ND | 5.3 | ug/kg | |
| 93FW1565033 | SL | 8260 | Vinyl chloride | ND | 5.3 | ug/kg | |
| 93FW1565033 | SL | 8260 | o-Xylene | ND | 5.3 | ug/kg | |
| 93FW1565033 | SL | 8260 | m & p-Xylene | ND | 5.3 | ug/kg | |
| 93FW1565033 | SL | 8260 | SURROGATE RESULTS | - - | | | |
| 93FW1565033 | SL | 8260 | 4-Bromofluorobenzene (SURR) | 107.0 | | | |
| 93FW1565033 | SL | 8260 | Toluene-d8 (SURR) | 94.0 | | | |
| 93FW1565033 | SL | 8260 | 1,2-Dichloroethane-d4 (SURR) | 96.0 | | | |
| 93FW1565034 | SL | 8260 | Acetone | 14.0 | 12.0 | ug/kg | B-O |
| 93FW1565034 | SL | 8260 | Benzene | ND | 6.2 | ug/kg | |
| 93FW1565034 | SL | 8260 | Bromobenzene | ND | 6.2 | ug/kg | |
| 93FW1565034 | SL | 8260 | Bromochloromethane | ND | 6.2 | ug/kg | |
| 93FW1565034 | SL | 8260 | Bromodichloromethane | ND | 6.2 | ug/kg | |
| 93FW1565034 | SL | 8260 | Bromoform | ND | 6.2 | ug/kg | |
| 93FW1565034 | SL | 8260 | Bromomethane | ND | 6.2 | ug/kg | |
| 93FW1565034 | SL | 8260 | 2-Butanone | ND | 12.0 | ug/kg | |
| 93FW1565034 | SL | 8260 | n-Butylbenzene | ND | 6.2 | ug/kg | |
| 93FW1565034 | SL | 8260 | sec-Butylbenzene | ND | 6.2 | ug/kg | |
| 93FW1565034 | SL | 8260 | tert-Butylbenzene | ND | 6.2 | ug/kg | |
| 93FW1565034 | SL | 8260 | Carbon Tetrachloride | ND | 6.2 | ug/kg | |
| 93FW1565034 | SL | 8260 | Chlorobenzene | ND | 6.2 | ug/kg | |
| 93FW1565034 | SL | 8260 | Chloroethane | ND | 6.2 | ug/kg | |
| 93FW1565034 | SL | 8260 | Chloroform | ND | 6.2 | ug/kg | |
| 93FW1565034 | SL | 8260 | Chloromethane | ND | 6.2 | ug/kg | |
| 93FW1565034 | SL | 8260 | 2-Chlorotoluene | ND | 6.2 | ug/kg | |
| 93FW1565034 | SL | 8260 | 4-Chlrortoluene | ND | 6.2 | ug/kg | |
| 93FW1565034 | SL | 8260 | 1,2-Dibromo-3-chloropropane | ND | 6.2 | ug/kg | |
| 93FW1565034 | SL | 8260 | 1,2-Dibromoethane | ND | 6.2 | ug/kg | |
| 93FW1565034 | SL | 8260 | Dibromochloromethane | ND | 6.2 | ug/kg | |
| 93FW1565034 | SL | 8260 | Dibromomethane | ND | 6.2 | ug/kg | |
| 93FW1565034 | SL | 8260 | 1,2-Dichlorobenzene | ND | 6.2 | ug/kg | |
| 93FW1565034 | SL | 8260 | 1,3-Dichlorobenzene | ND | 6.2 | ug/kg | |
| 93FW1565034 | SL | 8260 | 1.4-Dibhlorobenzene | ND | 6.2 | ug/kg | |
| 93FW1565034 | SL | 8260 | Dichlorodifluoromethane | ND | 6.2 | ug/kg | |
| 93FW1565034 | SL | 8260 | 1,1-Dichloroethane | ND | 6.2 | ug/kg | |
| 93FW1565034 | SL | 8260 | 1,2-Dichloroethane | ND | 6.2 | ug/kg | |
| 93FW1565034 | SL | 8260 | 1,1-Dichloroethene | ND | 6.2 | ug/kg | |
| 93FW1565034 | SL | 8260 | cis-1,2-Dichloroethene | ND | 6.2 | ug/kg | |
| 93FW1565034 | SL | 8260 | trans-1,2-Dichloroethene | ND | 6.2 | ug/kg | |
| 93FW1565034 | SL | 8260 | 1,2-Dichloropropane | ND | 6.2 | ug/kg | |
| 93FW1565034 | SL | 8260 | 1,3-Dichloropropane | ND | 6.2 | ug/kg | |
| 93FW1565034 | SL | 8260 | 2,2-Dichloropropane | ND | 6.2 | ug/kg | |
| 93FW1565034 | SL | 8260 | trans-1,3-Dichloropropene | ND | 6.2 | ug/kg | |
| 93FW1565034 | SL | 8260 | 1,1-Dichloropropene | ND | 6.2 | ug/kg | |
| 93FW1565034 | SL | 8260 | cis-1,3-Dichloropropene | ND | 6.2 | ug/kg | |
| 93FW1565034 | SL | 8260 | Ethyl benzene | ND | 6.2 | ug/kg | |
| 93FW1565034 | SL | 8260 | Hexachlorobutadiene | ND | 6.2 | ug/kg | |
| 93FW1565034 | SL | 8260 | Isopropylbenzene | ND | 6.2 | ug/kg | |
| 93FW1565034 | SL | 8260 | p-Isopropyltoluene | ND | 6.2 | ug/kg | |
| 93FW1565034 | SL | 8260 | Methylene chloride | 14.0 | 6.2 | ug/kg | B-O |
| 93FW1565034 | SL | 8260 | Naphthalene | ND | 6.2 | ug/kg | |
| 93FW1565034 | SL | 8260 | n-Propylbenzene | ND | 6.2 | ug/kg | |
| 93FW1565034 | SL | 8260 | Styrene | ND | 6.2 | ug/kg | |
| 93FW1565034 | SL | 8260 | 1,1,1,2-Tetrachloroethane | ND | 6.2 | ug/kg | |
| 93FW1565034 | SL | 8260 | 1,1,2,2,-Tetrachloroethane | ND | 6.2 | ug/kg | |
| 93FW1565034 | SL | 8260 | Tetrachloroethene | ND | 6.2 | ug/kg | |
| 93FW1565034 | SL | 8260 | 1,2,3-Trichlorobenzene | ND | 6.2 | ug/kg | |
| 93FW1565034 | SL | 8260 | 1,2,4-Trichlorobenzene | ND | 6.2 | ug/kg | |
| 93FW1565034 | SL | 8260 | 1,1,1-Trichloroethane | ND | 6.2 | ug/kg | |

# 1993 Building 1565 Soil Data

| Sample Number | | Method | Chemical | Det Conc | Det Limit | Units | Flags |
|---|---|---|---|---|---|---|---|
| 93FW1565034 | SL | 8260 | 1,1,2-Trichloroethane | ND | 6.2 | ug/kg | |
| 93FW1565034 | SL | 8260 | Trichloroethene | ND | 6.2 | ug/kg | |
| 93FW1565034 | SL | 8260 | Trichlorofluoromethane | ND | 6.2 | ug/kg | |
| 93FW1565034 | SL | 8260 | 1,2,3-Trichloropropane | ND | 6.2 | ug/kg | |
| 93FW1565034 | SL | 8260 | 1.2.4-Trimethylbenzene | ND | 6.2 | ug/kg | |
| 93FW1565034 | SL | 8260 | 1,3,5-Trimethylbenzene | ND | 6.2 | ug/kg | |
| 93FW1565034 | SL | 8260 | Toulene | ND | 6.2 | ug/kg | |
| 93FW1565034 | SL | 8260 | Vinyl chloride | ND | 6.2 | ug/kg | |
| 93FW1565034 | SL | 8260 | o-Xylene | ND | 6.2 | ug/kg | |
| 93FW1565034 | SL | 8260 | m & p-Xylene | ND | 6.2 | ug/kg | |
| 93FW1565034 | SL | 8260 | SURROGATE RESULTS | - - | | ug/kg | |
| 93FW1565034 | SL | 8260 | 4-Bromofluorobenzene (SURR) | 113.0 | | ug/kg | |
| 93FW1565034 | SL | 8260 | Toluene-d8 (SURR) | 100.0 | | ug/kg | |
| 93FW1565034 | SL | 8260 | 1,2-Dichloroethane-d4 (SURR) | 96.0 | | ug/kg | |
| 93FW1565035 | SL | 8260 | Acetone | 13.0 | 13.0 | ug/kg | B-O |
| 93FW1565035 | SL | 8260 | Benzene | ND | 6.6 | ug/kg | |
| 93FW1565035 | SL | 8260 | Bromobenzene | ND | 6.6 | ug/kg | |
| 93FW1565035 | SL | 8260 | Bromochloromethane | ND | 6.6 | ug/kg | |
| 93FW1565035 | SL | 8260 | Bromodichloromethane | ND | 6.6 | ug/kg | |
| 93FW1565035 | SL | 8260 | Bromoform | ND | 6.6 | ug/kg | |
| 93FW1565035 | SL | 8260 | Bromomethane | ND | 6.6 | ug/kg | |
| 93FW1565035 | SL | 8260 | 2-Butanone | ND | 13.0 | ug/kg | |
| 93FW1565035 | SL | 8260 | n-Butylbenzene | ND | 6.6 | ug/kg | |
| 93FW1565035 | SL | 8260 | sec-Butylbenzene | ND | 6.6 | ug/kg | |
| 93FW1565035 | SL | 8260 | tert-Butylbenzene | ND | 6.6 | ug/kg | |
| 93FW1565035 | SL | 8260 | Carbon Tetrachloride | ND | 6.6 | ug/kg | |
| 93FW1565035 | SL | 8260 | Chlorobenzene | ND | 6.6 | ug/kg | |
| 93FW1565035 | SL | 8260 | Chloroethane | ND | 6.6 | ug/kg | |
| 93FW1565035 | SL | 8260 | Chloroform | ND | 6.6 | ug/kg | |
| 93FW1565035 | SL | 8260 | Chloromethane | ND | 6.6 | ug/kg | |
| 93FW1565035 | SL | 8260 | 2-Chlorotoluene | ND | 6.6 | ug/kg | |
| 93FW1565035 | SL | 8260 | 4-Chlrortoluene | ND | 6.6 | ug/kg | |
| 93FW1565035 | SL | 8260 | 1,2-Dibromo-3-chloropropane | ND | 6.6 | ug/kg | |
| 93FW1565035 | SL | 8260 | 1,2-Dibromoethane | ND | 6.6 | ug/kg | |
| 93FW1565035 | SL | 8260 | Dibromochloromethane | ND | 6.6 | ug/kg | |
| 93FW1565035 | SL | 8260 | Dibromomethane | ND | 6.6 | ug/kg | |
| 93FW1565035 | SL | 8260 | 1,2-Dichlorobenzene | ND | 6.6 | ug/kg | |
| 93FW1565035 | SL | 8260 | 1,3-Dichlorobenzene | ND | 6.6 | ug/kg | |
| 93FW1565035 | SL | 8260 | 1.4-Dibhlorobenzene | ND | 6.6 | ug/kg | |
| 93FW1565035 | SL | 8260 | Dichlorodifluoromethane | ND | 6.6 | ug/kg | |
| 93FW1565035 | SL | 8260 | 1,1-Dichloroethane | ND | 6.6 | ug/kg | |
| 93FW1565035 | SL | 8260 | 1,2-Dichloroethane | ND | 6.6 | ug/kg | |
| 93FW1565035 | SL | 8260 | 1,1-Dichloroethene | ND | 6.6 | ug/kg | |
| 93FW1565035 | SL | 8260 | cis-1,2-Dichloroethene | ND | 6.6 | ug/kg | |
| 93FW1565035 | SL | 8260 | trans-1,2-Dichloroethene | ND | 6.6 | ug/kg | |
| 93FW1565035 | SL | 8260 | 1,2-Dichloropropane | ND | 6.6 | ug/kg | |
| 93FW1565035 | SL | 8260 | 1,3-Dichloropropane | ND | 6.6 | ug/kg | |
| 93FW1565035 | SL | 8260 | 2,2-Dichloropropane | ND | 6.6 | ug/kg | |
| 93FW1565035 | SL | 8260 | trans-1,3-Dichloropropene | ND | 6.6 | ug/kg | |
| 93FW1565035 | SL | 8260 | 1,1-Dichloropropene | ND | 6.6 | ug/kg | |
| 93FW1565035 | SL | 8260 | cis-1,3-Dichloropropene | ND | 6.6 | ug/kg | |
| 93FW1565035 | SL | 8260 | Ethyl benzene | ND | 6.6 | ug/kg | |
| 93FW1565035 | SL | 8260 | Hexachlorobutadiene | ND | 6.6 | ug/kg | |
| 93FW1565035 | SL | 8260 | Isopropylbenzene | ND | 6.6 | ug/kg | |
| 93FW1565035 | SL | 8260 | p-Isopropyltoluene | ND | 6.6 | ug/kg | |
| 93FW1565035 | SL | 8260 | Methylene chloride | 13.0 | 6.6 | ug/kg | B-O |
| 93FW1565035 | SL | 8260 | Naphthalene | ND | 6.6 | ug/kg | |
| 93FW1565035 | SL | 8260 | n-Propylbenzene | ND | 6.6 | ug/kg | |
| 93FW1565035 | SL | 8260 | Styrene | ND | 6.6 | ug/kg | |
| 93FW1565035 | SL | 8260 | 1,1,1,2-Tetrachloroethane | ND | 6.6 | ug/kg | |
| 93FW1565035 | SL | 8260 | 1,1,2,2,-Tetrachloroethane | ND | 6.6 | ug/kg | |
| 93FW1565035 | SL | 8260 | Tetrachloroethene | ND | 6.6 | ug/kg | |
| 93FW1565035 | SL | 8260 | 1,2,3-Trichlorobenzene | ND | 6.6 | ug/kg | |
| 93FW1565035 | SL | 8260 | 1,2,4-Trichlorobenzene | ND | 6.6 | ug/kg | |
| 93FW1565035 | SL | 8260 | 1,1,1-Trichloroethane | ND | 6.6 | ug/kg | |
| 93FW1565035 | SL | 8260 | 1,1,2-Trichloroethane | ND | 6.6 | ug/kg | |
| 93FW1565035 | SL | 8260 | Trichloroethene | ND | 6.6 | ug/kg | |
| 93FW1565035 | SL | 8260 | Trichlorofluoromethane | ND | 6.6 | ug/kg | |

# 1993 Building 1565 Soil Data

| Sample Number | | Method | Chemical | Det Conc | Det Limit | Units | Flags |
|---|---|---|---|---|---|---|---|
| 93FW1565035 | SL | 8260 | 1,2,3-Trichloropropane | ND | 6.6 | ug/kg | |
| 93FW1565035 | SL | 8260 | 1.2.4-Trimethylbenzene | ND | 6.6 | ug/kg | |
| 93FW1565035 | SL | 8260 | 1,3,5-Trimethylbenzene | ND | 6.6 | ug/kg | |
| 93FW1565035 | SL | 8260 | Toulene | ND | 6.6 | ug/kg | |
| 93FW1565035 | SL | 8260 | Vinyl chloride | ND | 6.6 | ug/kg | |
| 93FW1565035 | SL | 8260 | o-Xylene | ND | 6.6 | ug/kg | |
| 93FW1565035 | SL | 8260 | m & p-Xylene | ND | 6.6 | ug/kg | |
| 93FW1565035 | SL | 8260 | SURROGATE RESULTS | - - | | | |
| 93FW1565035 | SL | 8260 | 4-Bromofluorobenzene (SURR) | 116.0 | | | |
| 93FW1565035 | SL | 8260 | Toluene-d8 (SURR) | 93.0 | | | |
| 93FW1565035 | SL | 8260 | 1,2-Dichloroethane-d4 (SURR) | 98.0 | | | |
| 93FW1565036 | SL | 418.1 | TRPH | ND | 11.0 | mg/kg | |
| 93FW1565036 | SL | 7421 | Lead (GFAA) | 7.4 | 0.2 | mg/kg | |
| 93FW1565036 | SL | 8015M | Gasoline Range Organics | ND | 1.3 | mg/kg | |
| 93FW1565036 | SL | 8015M | SURROGATE RESULTS | - - | | | |
| 93FW1565036 | SL | 8015M | Bromofluorobenzene (SURR) | 76.0 | | | |
| 93FW1565036 | SL | 8100M | Diesel Range Organics | 9.7 | 4.4 | mg/kg | |
| 93FW1565036 | SL | 8100M | SURROGATE RESULTS | - - | | | |
| 93FW1565036 | SL | 8100M | Ortho-terphenyl (SURR) | 86.0 | | | |
| 93FW1565036 | SL | 8260 | Acetone | 264.0 | 13.0 | ug/kg | |
| 93FW1565036 | SL | 8260 | Benzene | 17.0 | 6.6 | ug/kg | |
| 93FW1565036 | SL | 8260 | Bromobenzene | ND | 6.6 | ug/kg | |
| 93FW1565036 | SL | 8260 | Bromochloromethane | ND | 6.6 | ug/kg | |
| 93FW1565036 | SL | 8260 | Bromodichloromethane | ND | 6.6 | ug/kg | |
| 93FW1565036 | SL | 8260 | Bromoform | ND | 6.6 | ug/kg | |
| 93FW1565036 | SL | 8260 | Bromomethane | ND | 6.6 | ug/kg | |
| 93FW1565036 | SL | 8260 | 2-Butanone | 17.0 | 13.0 | ug/kg | |
| 93FW1565036 | SL | 8260 | n-Butylbenzene | ND | 6.6 | ug/kg | |
| 93FW1565036 | SL | 8260 | sec-Butylbenzene | ND | 6.6 | ug/kg | |
| 93FW1565036 | SL | 8260 | tert-Butylbenzene | ND | 6.6 | ug/kg | |
| 93FW1565036 | SL | 8260 | Carbon Tetrachloride | ND | 6.6 | ug/kg | |
| 93FW1565036 | SL | 8260 | Chlorobenzene | ND | 6.6 | ug/kg | |
| 93FW1565036 | SL | 8260 | Chloroethane | ND | 6.6 | ug/kg | |
| 93FW1565036 | SL | 8260 | Chloroform | ND | 6.6 | ug/kg | |
| 93FW1565036 | SL | 8260 | Chloromethane | ND | 6.6 | ug/kg | |
| 93FW1565036 | SL | 8260 | 2-Chlorotoluene | ND | 6.6 | ug/kg | |
| 93FW1565036 | SL | 8260 | 4-Chlrortoluene | ND | 6.6 | ug/kg | |
| 93FW1565036 | SL | 8260 | 1,2-Dibromo-3-chloropropane | ND | 6.6 | ug/kg | |
| 93FW1565036 | SL | 8260 | 1,2-Dibromoethane | ND | 6.6 | ug/kg | |
| 93FW1565036 | SL | 8260 | Dibromochloromethane | ND | 6.6 | ug/kg | |
| 93FW1565036 | SL | 8260 | Dibromomethane | ND | 6.6 | ug/kg | |
| 93FW1565036 | SL | 8260 | 1,2-Dichlorobenzene | ND | 6.6 | ug/kg | |
| 93FW1565036 | SL | 8260 | 1,3-Dichlorobenzene | ND | 6.6 | ug/kg | |
| 93FW1565036 | SL | 8260 | 1.4-Dibhlorobenzene | ND | 6.6 | ug/kg | |
| 93FW1565036 | SL | 8260 | Dichlorodifluoromethane | ND | 6.6 | ug/kg | |
| 93FW1565036 | SL | 8260 | 1,1-Dichloroethane | ND | 6.6 | ug/kg | |
| 93FW1565036 | SL | 8260 | 1,2-Dichloroethane | ND | 6.6 | ug/kg | |
| 93FW1565036 | SL | 8260 | 1,1-Dichloroethene | ND | 6.6 | ug/kg | |
| 93FW1565036 | SL | 8260 | cis-1,2-Dichloroethene | ND | 6.6 | ug/kg | |
| 93FW1565036 | SL | 8260 | trans-1,2-Dichloroethene | ND | 6.6 | ug/kg | |
| 93FW1565036 | SL | 8260 | 1,2-Dichloropropane | ND | 6.6 | ug/kg | |
| 93FW1565036 | SL | 8260 | 1,3-Dichloropropane | ND | 6.6 | ug/kg | |
| 93FW1565036 | SL | 8260 | 2,2-Dichloropropane | ND | 6.6 | ug/kg | |
| 93FW1565036 | SL | 8260 | trans-1,3-Dichloropropene | ND | 6.6 | ug/kg | |
| 93FW1565036 | SL | 8260 | 1,1-Dichloropropene | ND | 6.6 | ug/kg | |
| 93FW1565036 | SL | 8260 | cis-1,3-Dichloropropene | ND | 6.6 | ug/kg | |
| 93FW1565036 | SL | 8260 | Ethyl benzene | 20.0 | 6.6 | ug/kg | |
| 93FW1565036 | SL | 8260 | Hexachlorobutadiene | ND | 6.6 | ug/kg | |
| 93FW1565036 | SL | 8260 | Isopropylbenzene | 11.0 | 6.6 | ug/kg | |
| 93FW1565036 | SL | 8260 | p-Isopropyltoluene | ND | 6.6 | ug/kg | |
| 93FW1565036 | SL | 8260 | Methylene chloride | 13.0 | 6.6 | ug/kg | B-O |
| 93FW1565036 | SL | 8260 | Naphthalene | ND | 6.6 | ug/kg | |
| 93FW1565036 | SL | 8260 | n-Propylbenzene | ND | 6.6 | ug/kg | |
| 93FW1565036 | SL | 8260 | Styrene | ND | 6.6 | ug/kg | |
| 93FW1565036 | SL | 8260 | 1,1,1,2-Tetrachloroethane | ND | 6.6 | ug/kg | |
| 93FW1565036 | SL | 8260 | 1,1,2,2,-Tetrachloroethane | ND | 6.6 | ug/kg | |
| 93FW1565036 | SL | 8260 | Tetrachloroethene | ND | 6.6 | ug/kg | |
| 93FW1565036 | SL | 8260 | 1,2,3-Trichlorobenzene | ND | 6.6 | ug/kg | |

# 1993 Building 1565 Soil Data

| Sample Number | | Method | Chemical | Det Conc | Det Limit | Units | Flags |
|---|---|---|---|---|---|---|---|
| 93FW1565036 | SL | 8260 | 1,2,4-Trichlorobenzene | ND | 6.6 | ug/kg | |
| 93FW1565036 | SL | 8260 | 1,1,1-Trichloroethane | ND | 6.6 | ug/kg | |
| 93FW1565036 | SL | 8260 | 1,1,2-Trichloroethane | ND | 6.6 | ug/kg | |
| 93FW1565036 | SL | 8260 | Trichloroethene | ND | 6.6 | ug/kg | |
| 93FW1565036 | SL | 8260 | Trichlorofluoromethane | ND | 6.6 | ug/kg | |
| 93FW1565036 | SL | 8260 | 1,2,3-Trichloropropane | ND | 6.6 | ug/kg | |
| 93FW1565036 | SL | 8260 | 1.2.4-Trimethylbenzene | 26.0 | 6.6 | ug/kg | |
| 93FW1565036 | SL | 8260 | 1,3,5-Trimethylbenzene | 18.0 | 6.6 | ug/kg | |
| 93FW1565036 | SL | 8260 | Toulene | 13.0 | 6.6 | ug/kg | |
| 93FW1565036 | SL | 8260 | Vinyl chloride | ND | 6.6 | ug/kg | |
| 93FW1565036 | SL | 8260 | o-Xylene | 49.0 | 6.6 | ug/kg | |
| 93FW1565036 | SL | 8260 | m & p-Xylene | 20.0 | 6.6 | ug/kg | |
| 93FW1565036 | SL | 8260 | SURROGATE RESULTS | - - | | | |
| 93FW1565036 | SL | 8260 | 4-Bromofluorobenzene (SURR) | 120.0 | | | MI |
| 93FW1565036 | SL | 8260 | Toluene-d8 (SURR) | 111.0 | | | |
| 93FW1565036 | SL | 8260 | 1,2-Dichloroethane-d4 (SURR) | 105.0 | | | |
| 93FW1565037 | SL | 418.1 | TRPH | 20.0 | 12.0 | mg/kg | |
| 93FW1565037 | SL | 7421 | Lead (GFAA) | 11.0 | 0.2 | mg/kg | |
| 93FW1565037 | SL | 8015M | Gasoline Range Organics | ND | 1.3 | mg/kg | |
| 93FW1565037 | SL | 8015M | SURROGATE RESULTS | - - | | | |
| 93FW1565037 | SL | 8015M | Bromofluorobenzene (SURR) | 103.0 | | | |
| 93FW1565037 | SL | 8100M | Diesel Range Organics | 9.8 | 4.8 | mg/kg | |
| 93FW1565037 | SL | 8100M | SURROGATE RESULTS | - - | | | |
| 93FW1565037 | SL | 8100M | Ortho-terphenyl (SURR) | 76.0 | | | |
| 93FW1565037 | SL | 8260 | Acetone | 120.0 | 13.0 | ug/kg | |
| 93FW1565037 | SL | 8260 | Benzene | ND | 6.7 | ug/kg | |
| 93FW1565037 | SL | 8260 | Bromobenzene | ND | 6.7 | ug/kg | |
| 93FW1565037 | SL | 8260 | Bromochloromethane | ND | 6.7 | ug/kg | |
| 93FW1565037 | SL | 8260 | Bromodichloromethane | ND | 6.7 | ug/kg | |
| 93FW1565037 | SL | 8260 | Bromoform | ND | 6.7 | ug/kg | |
| 93FW1565037 | SL | 8260 | Bromomethane | ND | 6.7 | ug/kg | |
| 93FW1565037 | SL | 8260 | 2-Butanone | 24.0 | 13.0 | ug/kg | |
| 93FW1565037 | SL | 8260 | n-Butylbenzene | ND | 6.7 | ug/kg | |
| 93FW1565037 | SL | 8260 | sec-Butylbenzene | ND | 6.7 | ug/kg | |
| 93FW1565037 | SL | 8260 | tert-Butylbenzene | ND | 6.7 | ug/kg | |
| 93FW1565037 | SL | 8260 | Carbon Tetrachloride | ND | 6.7 | ug/kg | |
| 93FW1565037 | SL | 8260 | Chlorobenzene | ND | 6.7 | ug/kg | |
| 93FW1565037 | SL | 8260 | Chloroethane | ND | 6.7 | ug/kg | |
| 93FW1565037 | SL | 8260 | Chloroform | ND | 6.7 | ug/kg | |
| 93FW1565037 | SL | 8260 | Chloromethane | ND | 6.7 | ug/kg | |
| 93FW1565037 | SL | 8260 | 2-Chlorotoluene | ND | 6.7 | ug/kg | |
| 93FW1565037 | SL | 8260 | 4-Chlrortoluene | ND | 6.7 | ug/kg | |
| 93FW1565037 | SL | 8260 | 1,2-Dibromo-3-chloropropane | ND | 6.7 | ug/kg | |
| 93FW1565037 | SL | 8260 | 1,2-Dibromoethane | ND | 6.7 | ug/kg | |
| 93FW1565037 | SL | 8260 | Dibromochloromethane | ND | 6.7 | ug/kg | |
| 93FW1565037 | SL | 8260 | Dibromomethane | ND | 6.7 | ug/kg | |
| 93FW1565037 | SL | 8260 | 1,2-Dichlorobenzene | ND | 6.7 | ug/kg | |
| 93FW1565037 | SL | 8260 | 1,3-Dichlorobenzene | ND | 6.7 | ug/kg | |
| 93FW1565037 | SL | 8260 | 1.4-Dibhlorobenzene | ND | 6.7 | ug/kg | |
| 93FW1565037 | SL | 8260 | Dichlorodifluoromethane | ND | 6.7 | ug/kg | |
| 93FW1565037 | SL | 8260 | 1,1-Dichloroethane | ND | 6.7 | ug/kg | |
| 93FW1565037 | SL | 8260 | 1,2-Dichloroethane | ND | 6.7 | ug/kg | |
| 93FW1565037 | SL | 8260 | 1,1-Dichloroethene | ND | 6.7 | ug/kg | |
| 93FW1565037 | SL | 8260 | cis-1,2-Dichloroethene | ND | 6.7 | ug/kg | |
| 93FW1565037 | SL | 8260 | trans-1,2-Dichloroethene | ND | 6.7 | ug/kg | |
| 93FW1565037 | SL | 8260 | 1,2-Dichloropropane | ND | 6.7 | ug/kg | |
| 93FW1565037 | SL | 8260 | 1,3-Dichloropropane | ND | 6.7 | ug/kg | |
| 93FW1565037 | SL | 8260 | 2,2-Dichloropropane | ND | 6.7 | ug/kg | |
| 93FW1565037 | SL | 8260 | trans-1,3-Dichloropropene | ND | 6.7 | ug/kg | |
| 93FW1565037 | SL | 8260 | 1,1-Dichloropropene | ND | 6.7 | ug/kg | |
| 93FW1565037 | SL | 8260 | cis-1,3-Dichloropropene | ND | 6.7 | ug/kg | |
| 93FW1565037 | SL | 8260 | Ethyl benzene | ND | 6.7 | ug/kg | |
| 93FW1565037 | SL | 8260 | Hexachlorobutadiene | ND | 6.7 | ug/kg | |
| 93FW1565037 | SL | 8260 | Isopropylbenzene | ND | 6.7 | ug/kg | |
| 93FW1565037 | SL | 8260 | p-Isopropyltoluene | ND | 6.7 | ug/kg | |
| 93FW1565037 | SL | 8260 | Methylene chloride | 13.0 | 6.7 | ug/kg | B-O |
| 93FW1565037 | SL | 8260 | Naphthalene | ND | 6.7 | ug/kg | |
| 93FW1565037 | SL | 8260 | n-Propylbenzene | ND | 6.7 | ug/kg | |

# 1993 Building 1565 Soil Data

| Sample Number | | Method | Chemical | Det Conc | Det Limit | Units | Flags |
|---|---|---|---|---|---|---|---|
| 93FW1565037 | SL | 8260 | Styrene | ND | 6.7 | ug/kg | |
| 93FW1565037 | SL | 8260 | 1,1,1,2-Tetrachloroethane | ND | 6.7 | ug/kg | |
| 93FW1565037 | SL | 8260 | 1,1,2,2,-Tetrachloroethane | ND | 6.7 | ug/kg | |
| 93FW1565037 | SL | 8260 | Tetrachloroethene | ND | 6.7 | ug/kg | |
| 93FW1565037 | SL | 8260 | 1,2,3-Trichlorobenzene | ND | 6.7 | ug/kg | |
| 93FW1565037 | SL | 8260 | 1,2,4-Trichlorobenzene | ND | 6.7 | ug/kg | |
| 93FW1565037 | SL | 8260 | 1,1,1-Trichloroethane | ND | 6.7 | ug/kg | |
| 93FW1565037 | SL | 8260 | 1,1,2-Trichloroethane | ND | 6.7 | ug/kg | |
| 93FW1565037 | SL | 8260 | Trichloroethene | ND | 6.7 | ug/kg | |
| 93FW1565037 | SL | 8260 | Trichlorofluoromethane | ND | 6.7 | ug/kg | |
| 93FW1565037 | SL | 8260 | 1,2,3-Trichloropropane | ND | 6.7 | ug/kg | |
| 93FW1565037 | SL | 8260 | 1.2.4-Trimethylbenzene | ND | 6.7 | ug/kg | |
| 93FW1565037 | SL | 8260 | 1,3,5-Trimethylbenzene | ND | 6.7 | ug/kg | |
| 93FW1565037 | SL | 8260 | Toulene | ND | 6.7 | ug/kg | |
| 93FW1565037 | SL | 8260 | Vinyl chloride | ND | 6.7 | ug/kg | |
| 93FW1565037 | SL | 8260 | o-Xylene | ND | 6.7 | ug/kg | |
| 93FW1565037 | SL | 8260 | m & p-Xylene | ND | 6.7 | ug/kg | |
| 93FW1565037 | SL | 8260 | SURROGATE RESULTS | - - | | | |
| 93FW1565037 | SL | 8260 | 4-Bromofluorobenzene (SURR) | 116.0 | | | MI |
| 93FW1565037 | SL | 8260 | Toluene-d8 (SURR) | 96.0 | | | |
| 93FW1565037 | SL | 8260 | 1,2-Dichloroethane-d4 (SURR) | 98.0 | | | |
| 93FW1565038 | SL | 8260 | Acetone | 10.0 | 10.0 | ug/kg | B-O |
| 93FW1565038 | SL | 8260 | Benzene | ND | 5.1 | ug/kg | |
| 93FW1565038 | SL | 8260 | Bromobenzene | ND | 5.1 | ug/kg | |
| 93FW1565038 | SL | 8260 | Bromochloromethane | ND | 5.1 | ug/kg | |
| 93FW1565038 | SL | 8260 | Bromodichloromethane | ND | 5.1 | ug/kg | |
| 93FW1565038 | SL | 8260 | Bromoform | ND | 5.1 | ug/kg | |
| 93FW1565038 | SL | 8260 | Bromomethane | ND | 5.1 | ug/kg | |
| 93FW1565038 | SL | 8260 | 2-Butanone | ND | 10.0 | ug/kg | |
| 93FW1565038 | SL | 8260 | n-Butylbenzene | ND | 5.1 | ug/kg | |
| 93FW1565038 | SL | 8260 | sec-Butylbenzene | ND | 5.1 | ug/kg | |
| 93FW1565038 | SL | 8260 | tert-Butylbenzene | ND | 5.1 | ug/kg | |
| 93FW1565038 | SL | 8260 | Carbon Tetrachloride | ND | 5.1 | ug/kg | |
| 93FW1565038 | SL | 8260 | Chlorobenzene | ND | 5.1 | ug/kg | |
| 93FW1565038 | SL | 8260 | Chloroethane | ND | 5.1 | ug/kg | |
| 93FW1565038 | SL | 8260 | Chloroform | ND | 5.1 | ug/kg | |
| 93FW1565038 | SL | 8260 | Chloromethane | ND | 5.1 | ug/kg | |
| 93FW1565038 | SL | 8260 | 2-Chlorotoluene | ND | 5.1 | ug/kg | |
| 93FW1565038 | SL | 8260 | 4-Chlrortoluene | ND | 5.1 | ug/kg | |
| 93FW1565038 | SL | 8260 | 1,2-Dibromo-3-chloropropane | ND | 5.1 | ug/kg | |
| 93FW1565038 | SL | 8260 | 1,2-Dibromoethane | ND | 5.1 | ug/kg | |
| 93FW1565038 | SL | 8260 | Dibromochloromethane | ND | 5.1 | ug/kg | |
| 93FW1565038 | SL | 8260 | Dibromomethane | ND | 5.1 | ug/kg | |
| 93FW1565038 | SL | 8260 | 1,2-Dichlorobenzene | ND | 5.1 | ug/kg | |
| 93FW1565038 | SL | 8260 | 1,3-Dichlorobenzene | ND | 5.1 | ug/kg | |
| 93FW1565038 | SL | 8260 | 1.4-Dibhlorobenzene | ND | 5.1 | ug/kg | |
| 93FW1565038 | SL | 8260 | Dichlorodifluoromethane | ND | 5.1 | ug/kg | |
| 93FW1565038 | SL | 8260 | 1,1-Dichloroethane | ND | 5.1 | ug/kg | |
| 93FW1565038 | SL | 8260 | 1,2-Dichloroethane | ND | 5.1 | ug/kg | |
| 93FW1565038 | SL | 8260 | 1,1-Dichloroethene | ND | 5.1 | ug/kg | |
| 93FW1565038 | SL | 8260 | cis-1,2-Dichloroethene | ND | 5.1 | ug/kg | |
| 93FW1565038 | SL | 8260 | trans-1,2-Dichloroethene | ND | 5.1 | ug/kg | |
| 93FW1565038 | SL | 8260 | 1,2-Dichloropropane | ND | 5.1 | ug/kg | |
| 93FW1565038 | SL | 8260 | 1,3-Dichloropropane | ND | 5.1 | ug/kg | |
| 93FW1565038 | SL | 8260 | 2,2-Dichloropropane | ND | 5.1 | ug/kg | |
| 93FW1565038 | SL | 8260 | trans-1,3-Dichloropropene | ND | 5.1 | ug/kg | |
| 93FW1565038 | SL | 8260 | 1,1-Dichloropropene | ND | 5.1 | ug/kg | |
| 93FW1565038 | SL | 8260 | cis-1,3-Dichloropropene | ND | 5.1 | ug/kg | |
| 93FW1565038 | SL | 8260 | Ethyl benzene | ND | 5.1 | ug/kg | |
| 93FW1565038 | SL | 8260 | Hexachlorobutadiene | ND | 5.1 | ug/kg | |
| 93FW1565038 | SL | 8260 | Isopropylbenzene | ND | 5.1 | ug/kg | |
| 93FW1565038 | SL | 8260 | p-Isopropyltoluene | ND | 5.1 | ug/kg | |
| 93FW1565038 | SL | 8260 | Methylene chloride | 8.1 | 5.1 | ug/kg | B-O |
| 93FW1565038 | SL | 8260 | Naphthalene | ND | 5.1 | ug/kg | |
| 93FW1565038 | SL | 8260 | n-Propylbenzene | ND | 5.1 | ug/kg | |
| 93FW1565038 | SL | 8260 | Styrene | ND | 5.1 | ug/kg | |
| 93FW1565038 | SL | 8260 | 1,1,1,2-Tetrachloroethane | ND | 5.1 | ug/kg | |
| 93FW1565038 | SL | 8260 | 1,1,2,2,-Tetrachloroethane | ND | 5.1 | ug/kg | |

# 1993 Building 1565 Soil Data

| Sample Number | | Method | Chemical | Det Conc | Det Limit | Units | Flags |
|---|---|---|---|---|---|---|---|
| 93FW1565038 | SL | 8260 | Tetrachloroethene | ND | 5.1 | ug/kg | |
| 93FW1565038 | SL | 8260 | 1,2,3-Trichlorobenzene | ND | 5.1 | ug/kg | |
| 93FW1565038 | SL | 8260 | 1,2,4-Trichlorobenzene | ND | 5.1 | ug/kg | |
| 93FW1565038 | SL | 8260 | 1,1,1-Trichloroethane | ND | 5.1 | ug/kg | |
| 93FW1565038 | SL | 8260 | 1,1,2-Trichloroethane | ND | 5.1 | ug/kg | |
| 93FW1565038 | SL | 8260 | Trichloroethene | ND | 5.1 | ug/kg | |
| 93FW1565038 | SL | 8260 | Trichlorofluoromethane | ND | 5.1 | ug/kg | |
| 93FW1565038 | SL | 8260 | 1,2,3-Trichloropropane | ND | 5.1 | ug/kg | |
| 93FW1565038 | SL | 8260 | 1.2.4-Trimethylbenzene | ND | 5.1 | ug/kg | |
| 93FW1565038 | SL | 8260 | 1,3,5-Trimethylbenzene | ND | 5.1 | ug/kg | |
| 93FW1565038 | SL | 8260 | Toulene | ND | 5.1 | ug/kg | |
| 93FW1565038 | SL | 8260 | Vinyl chloride | ND | 5.1 | ug/kg | |
| 93FW1565038 | SL | 8260 | o-Xylene | ND | 5.1 | ug/kg | |
| 93FW1565038 | SL | 8260 | m & p-Xylene | ND | 5.1 | ug/kg | |
| 93FW1565038 | SL | 8260 | SURROGATE RESULTS | - - | | | |
| 93FW1565038 | SL | 8260 | 4-Bromofluorobenzene (SURR) | 114.0 | | | |
| 93FW1565038 | SL | 8260 | Toluene-d8 (SURR) | 97.0 | | | |
| 93FW1565038 | SL | 8260 | 1,2-Dichloroethane-d4 (SURR) | 100.0 | | | |
| 93FW1565039 | SL | 8260 | Acetone | 10.0 | 10.0 | ug/kg | B-O |
| 93FW1565039 | SL | 8260 | Benzene | ND | 5.1 | ug/kg | |
| 93FW1565039 | SL | 8260 | Bromobenzene | ND | 5.1 | ug/kg | |
| 93FW1565039 | SL | 8260 | Bromochloromethane | ND | 5.1 | ug/kg | |
| 93FW1565039 | SL | 8260 | Bromodichloromethane | ND | 5.1 | ug/kg | |
| 93FW1565039 | SL | 8260 | Bromoform | ND | 5.1 | ug/kg | |
| 93FW1565039 | SL | 8260 | Bromomethane | ND | 5.1 | ug/kg | |
| 93FW1565039 | SL | 8260 | 2-Butanone | ND | 10.0 | ug/kg | |
| 93FW1565039 | SL | 8260 | n-Butylbenzene | ND | 5.1 | ug/kg | |
| 93FW1565039 | SL | 8260 | sec-Butylbenzene | ND | 5.1 | ug/kg | |
| 93FW1565039 | SL | 8260 | tert-Butylbenzene | ND | 5.1 | ug/kg | |
| 93FW1565039 | SL | 8260 | Carbon Tetrachloride | ND | 5.1 | ug/kg | |
| 93FW1565039 | SL | 8260 | Chlorobenzene | ND | 5.1 | ug/kg | |
| 93FW1565039 | SL | 8260 | Chloroethane | ND | 5.1 | ug/kg | |
| 93FW1565039 | SL | 8260 | Chloroform | ND | 5.1 | ug/kg | |
| 93FW1565039 | SL | 8260 | Chloromethane | ND | 5.1 | ug/kg | |
| 93FW1565039 | SL | 8260 | 2-Chlorotoluene | ND | 5.1 | ug/kg | |
| 93FW1565039 | SL | 8260 | 4-Chlrortoluene | ND | 5.1 | ug/kg | |
| 93FW1565039 | SL | 8260 | 1,2-Dibromo-3-chloropropane | ND | 5.1 | ug/kg | |
| 93FW1565039 | SL | 8260 | 1,2-Dibromoethane | ND | 5.1 | ug/kg | |
| 93FW1565039 | SL | 8260 | Dibromochloromethane | ND | 5.1 | ug/kg | |
| 93FW1565039 | SL | 8260 | Dibromomethane | ND | 5.1 | ug/kg | |
| 93FW1565039 | SL | 8260 | 1,2-Dichlorobenzene | ND | 5.1 | ug/kg | |
| 93FW1565039 | SL | 8260 | 1,3-Dichlorobenzene | ND | 5.1 | ug/kg | |
| 93FW1565039 | SL | 8260 | 1.4-Dibhlorobenzene | ND | 5.1 | ug/kg | |
| 93FW1565039 | SL | 8260 | Dichlorodifluoromethane | ND | 5.1 | ug/kg | |
| 93FW1565039 | SL | 8260 | 1,1-Dichloroethane | ND | 5.1 | ug/kg | |
| 93FW1565039 | SL | 8260 | 1,2-Dichloroethane | ND | 5.1 | ug/kg | |
| 93FW1565039 | SL | 8260 | 1,1-Dichloroethene | ND | 5.1 | ug/kg | |
| 93FW1565039 | SL | 8260 | cis-1,2-Dichloroethene | ND | 5.1 | ug/kg | |
| 93FW1565039 | SL | 8260 | trans-1,2-Dichloroethene | ND | 5.1 | ug/kg | |
| 93FW1565039 | SL | 8260 | 1,2-Dichloropropane | ND | 5.1 | ug/kg | |
| 93FW1565039 | SL | 8260 | 1,3-Dichloropropane | ND | 5.1 | ug/kg | |
| 93FW1565039 | SL | 8260 | 2,2-Dichloropropane | ND | 5.1 | ug/kg | |
| 93FW1565039 | SL | 8260 | trans-1,3-Dichloropropene | ND | 5.1 | ug/kg | |
| 93FW1565039 | SL | 8260 | 1,1-Dichloropropene | ND | 5.1 | ug/kg | |
| 93FW1565039 | SL | 8260 | cis-1,3-Dichloropropene | ND | 5.1 | ug/kg | |
| 93FW1565039 | SL | 8260 | Ethyl benzene | ND | 5.1 | ug/kg | |
| 93FW1565039 | SL | 8260 | Hexachlorobutadiene | ND | 5.1 | ug/kg | |
| 93FW1565039 | SL | 8260 | Isopropylbenzene | ND | 5.1 | ug/kg | |
| 93FW1565039 | SL | 8260 | p-Isopropyltoluene | ND | 5.1 | ug/kg | |
| 93FW1565039 | SL | 8260 | Methylene chloride | 8.2 | 5.1 | ug/kg | B-O |
| 93FW1565039 | SL | 8260 | Naphthalene | ND | 5.1 | ug/kg | |
| 93FW1565039 | SL | 8260 | n-Propylbenzene | ND | 5.1 | ug/kg | |
| 93FW1565039 | SL | 8260 | Styrene | ND | 5.1 | ug/kg | |
| 93FW1565039 | SL | 8260 | 1,1,1,2-Tetrachloroethane | ND | 5.1 | ug/kg | |
| 93FW1565039 | SL | 8260 | 1,1,2,2,-Tetrachloroethane | ND | 5.1 | ug/kg | |
| 93FW1565039 | SL | 8260 | Tetrachloroethene | ND | 5.1 | ug/kg | |
| 93FW1565039 | SL | 8260 | 1,2,3-Trichlorobenzene | ND | 5.1 | ug/kg | |
| 93FW1565039 | SL | 8260 | 1,2,4-Trichlorobenzene | ND | 5.1 | ug/kg | |

# 1993 Building 1565 Soil Data

| Sample Number | | Method | Chemical | Det Conc | Det Limit | Units | Flags |
|---|---|---|---|---|---|---|---|
| 93FW1565039 | SL | 8260 | 1,1,1-Trichloroethane | ND | 5.1 | ug/kg | |
| 93FW1565039 | SL | 8260 | 1,1,2-Trichloroethane | ND | 5.1 | ug/kg | |
| 93FW1565039 | SL | 8260 | Trichloroethene | ND | 5.1 | ug/kg | |
| 93FW1565039 | SL | 8260 | Trichlorofluoromethane | ND | 5.1 | ug/kg | |
| 93FW1565039 | SL | 8260 | 1,2,3-Trichloropropane | ND | 5.1 | ug/kg | |
| 93FW1565039 | SL | 8260 | 1.2.4-Trimethylbenzene | ND | 5.1 | ug/kg | |
| 93FW1565039 | SL | 8260 | 1,3,5-Trimethylbenzene | ND | 5.1 | ug/kg | |
| 93FW1565039 | SL | 8260 | Toulene | ND | 5.1 | ug/kg | |
| 93FW1565039 | SL | 8260 | Vinyl chloride | ND | 5.1 | ug/kg | |
| 93FW1565039 | SL | 8260 | o-Xylene | ND | 5.1 | ug/kg | |
| 93FW1565039 | SL | 8260 | m & p-Xylene | ND | 5.1 | ug/kg | |
| 93FW1565039 | SL | 8260 | SURROGATE RESULTS | - - | | | |
| 93FW1565039 | SL | 8260 | 4-Bromofluorobenzene (SURR) | 109.0 | | | |
| 93FW1565039 | SL | 8260 | Toluene-d8 (SURR) | 98.0 | | | |
| 93FW1565039 | SL | 8260 | 1,2-Dichloroethane-d4 (SURR) | 99.0 | | | |
| 93FW1565040 | SL | 8260 | Acetone | ND | 12.0 | ug/kg | |
| 93FW1565040 | SL | 8260 | Benzene | ND | 5.8 | ug/kg | |
| 93FW1565040 | SL | 8260 | Bromobenzene | ND | 5.8 | ug/kg | |
| 93FW1565040 | SL | 8260 | Bromochloromethane | ND | 5.8 | ug/kg | |
| 93FW1565040 | SL | 8260 | Bromodichloromethane | ND | 5.8 | ug/kg | |
| 93FW1565040 | SL | 8260 | Bromoform | ND | 5.8 | ug/kg | |
| 93FW1565040 | SL | 8260 | Bromomethane | ND | 5.8 | ug/kg | |
| 93FW1565040 | SL | 8260 | 2-Butanone | ND | 12.0 | ug/kg | |
| 93FW1565040 | SL | 8260 | n-Butylbenzene | ND | 5.8 | ug/kg | |
| 93FW1565040 | SL | 8260 | sec-Butylbenzene | ND | 5.8 | ug/kg | |
| 93FW1565040 | SL | 8260 | tert-Butylbenzene | ND | 5.8 | ug/kg | |
| 93FW1565040 | SL | 8260 | Carbon Tetrachloride | ND | 5.8 | ug/kg | |
| 93FW1565040 | SL | 8260 | Chlorobenzene | ND | 5.8 | ug/kg | |
| 93FW1565040 | SL | 8260 | Chloroethane | ND | 5.8 | ug/kg | |
| 93FW1565040 | SL | 8260 | Chloroform | ND | 5.8 | ug/kg | |
| 93FW1565040 | SL | 8260 | Chloromethane | ND | 5.8 | ug/kg | |
| 93FW1565040 | SL | 8260 | 2-Chlorotoluene | ND | 5.8 | ug/kg | |
| 93FW1565040 | SL | 8260 | 4-Chlrortoluene | ND | 5.8 | ug/kg | |
| 93FW1565040 | SL | 8260 | 1,2-Dibromo-3-chloropropane | ND | 5.8 | ug/kg | |
| 93FW1565040 | SL | 8260 | 1,2-Dibromoethane | ND | 5.8 | ug/kg | |
| 93FW1565040 | SL | 8260 | Dibromochloromethane | ND | 5.8 | ug/kg | |
| 93FW1565040 | SL | 8260 | Dibromomethane | ND | 5.8 | ug/kg | |
| 93FW1565040 | SL | 8260 | 1,2-Dichlorobenzene | ND | 5.8 | ug/kg | |
| 93FW1565040 | SL | 8260 | 1,3-Dichlorobenzene | ND | 5.8 | ug/kg | |
| 93FW1565040 | SL | 8260 | 1.4-Dibhlorobenzene | ND | 5.8 | ug/kg | |
| 93FW1565040 | SL | 8260 | Dichlorodifluoromethane | ND | 5.8 | ug/kg | |
| 93FW1565040 | SL | 8260 | 1,1-Dichloroethane | ND | 5.8 | ug/kg | |
| 93FW1565040 | SL | 8260 | 1,2-Dichloroethane | ND | 5.8 | ug/kg | |
| 93FW1565040 | SL | 8260 | 1,1-Dichloroethene | ND | 5.8 | ug/kg | |
| 93FW1565040 | SL | 8260 | cis-1,2-Dichloroethene | ND | 5.8 | ug/kg | |
| 93FW1565040 | SL | 8260 | trans-1,2-Dichloroethene | ND | 5.8 | ug/kg | |
| 93FW1565040 | SL | 8260 | 1,2-Dichloropropane | ND | 5.8 | ug/kg | |
| 93FW1565040 | SL | 8260 | 1,3-Dichloropropane | ND | 5.8 | ug/kg | |
| 93FW1565040 | SL | 8260 | 2,2-Dichloropropane | ND | 5.8 | ug/kg | |
| 93FW1565040 | SL | 8260 | trans-1,3-Dichloropropene | ND | 5.8 | ug/kg | |
| 93FW1565040 | SL | 8260 | 1,1-Dichloropropene | ND | 5.8 | ug/kg | |
| 93FW1565040 | SL | 8260 | cis-1,3-Dichloropropene | ND | 5.8 | ug/kg | |
| 93FW1565040 | SL | 8260 | Ethyl benzene | ND | 5.8 | ug/kg | |
| 93FW1565040 | SL | 8260 | Hexachlorobutadiene | ND | 5.8 | ug/kg | |
| 93FW1565040 | SL | 8260 | Isopropylbenzene | ND | 5.8 | ug/kg | |
| 93FW1565040 | SL | 8260 | p-Isopropyltoluene | ND | 5.8 | ug/kg | |
| 93FW1565040 | SL | 8260 | Methylene chloride | 11.0 | 5.8 | ug/kg | B-O |
| 93FW1565040 | SL | 8260 | Naphthalene | ND | 5.8 | ug/kg | |
| 93FW1565040 | SL | 8260 | n-Propylbenzene | ND | 5.8 | ug/kg | |
| 93FW1565040 | SL | 8260 | Styrene | ND | 5.8 | ug/kg | |
| 93FW1565040 | SL | 8260 | 1,1,1,2-Tetrachloroethane | ND | 5.8 | ug/kg | |
| 93FW1565040 | SL | 8260 | 1,1,2,2,-Tetrachloroethane | ND | 5.8 | ug/kg | |
| 93FW1565040 | SL | 8260 | Tetrachloroethene | ND | 5.8 | ug/kg | |
| 93FW1565040 | SL | 8260 | 1,2,3-Trichlorobenzene | ND | 5.8 | ug/kg | |
| 93FW1565040 | SL | 8260 | 1,2,4-Trichlorobenzene | ND | 5.8 | ug/kg | |
| 93FW1565040 | SL | 8260 | 1,1,1-Trichloroethane | ND | 5.8 | ug/kg | |
| 93FW1565040 | SL | 8260 | 1,1,2-Trichloroethane | ND | 5.8 | ug/kg | |
| 93FW1565040 | SL | 8260 | Trichloroethene | ND | 5.8 | ug/kg | |

# 1993 Building 1565 Soil Data

| Sample Number | | Method | Chemical | Det Conc | Det Limit | Units | Flags |
|---|---|---|---|---|---|---|---|
| 93FW1565040 | SL | 8260 | Trichlorofluoromethane | ND | 5.8 | ug/kg | |
| 93FW1565040 | SL | 8260 | 1,2,3-Trichloropropane | ND | 5.8 | ug/kg | |
| 93FW1565040 | SL | 8260 | 1.2.4-Trimethylbenzene | ND | 5.8 | ug/kg | |
| 93FW1565040 | SL | 8260 | 1,3,5-Trimethylbenzene | ND | 5.8 | ug/kg | |
| 93FW1565040 | SL | 8260 | Toulene | ND | 5.8 | ug/kg | |
| 93FW1565040 | SL | 8260 | Vinyl chloride | ND | 5.8 | ug/kg | |
| 93FW1565040 | SL | 8260 | o-Xylene | ND | 5.8 | ug/kg | |
| 93FW1565040 | SL | 8260 | m & p-Xylene | ND | 5.8 | ug/kg | |
| 93FW1565040 | SL | 8260 | SURROGATE RESULTS | - - | | | |
| 93FW1565040 | SL | 8260 | 4-Bromofluorobenzene (SURR) | 115.0 | | | |
| 93FW1565040 | SL | 8260 | Toluene-d8 (SURR) | 85.0 | | | |
| 93FW1565040 | SL | 8260 | 1,2-Dichloroethane-d4 (SURR) | 99.0 | | | |
| 93FW1565041 | SL | 8260 | Acetone | ND | 10.0 | ug/kg | |
| 93FW1565041 | SL | 8260 | Benzene | ND | 5.3 | ug/kg | |
| 93FW1565041 | SL | 8260 | Bromobenzene | ND | 5.3 | ug/kg | |
| 93FW1565041 | SL | 8260 | Bromochloromethane | ND | 5.3 | ug/kg | |
| 93FW1565041 | SL | 8260 | Bromodichloromethane | ND | 5.3 | ug/kg | |
| 93FW1565041 | SL | 8260 | Bromoform | ND | 5.3 | ug/kg | |
| 93FW1565041 | SL | 8260 | Bromomethane | ND | 5.3 | ug/kg | |
| 93FW1565041 | SL | 8260 | 2-Butanone | ND | 10.0 | ug/kg | |
| 93FW1565041 | SL | 8260 | n-Butylbenzene | ND | 5.3 | ug/kg | - |
| 93FW1565041 | SL | 8260 | sec-Butylbenzene | ND | 5.3 | ug/kg | |
| 93FW1565041 | SL | 8260 | tert-Butylbenzene | ND | 5.3 | ug/kg | |
| 93FW1565041 | SL | 8260 | Carbon Tetrachloride | ND | 5.3 | ug/kg | |
| 93FW1565041 | SL | 8260 | Chlorobenzene | ND | 5.3 | ug/kg | |
| 93FW1565041 | SL | 8260 | Chloroethane | ND | 5.3 | ug/kg | |
| 93FW1565041 | SL | 8260 | Chloroform | ND | 5.3 | ug/kg | |
| 93FW1565041 | SL | 8260 | Chloromethane | ND | 5.3 | ug/kg | |
| 93FW1565041 | SL | 8260 | 2-Chlorotoluene | ND | 5.3 | ug/kg | |
| 93FW1565041 | SL | 8260 | 4-Chlrortoluene | ND | 5.3 | ug/kg | |
| 93FW1565041 | SL | 8260 | 1,2-Dibromo-3-chloropropane | ND | 5.3 | ug/kg | |
| 93FW1565041 | SL | 8260 | 1,2-Dibromoethane | ND | 5.3 | ug/kg | |
| 93FW1565041 | SL | 8260 | Dibromochloromethane | ND | 5.3 | ug/kg | |
| 93FW1565041 | SL | 8260 | Dibromomethane | ND | 5.3 | ug/kg | |
| 93FW1565041 | SL | 8260 | 1,2-Dichlorobenzene | ND | 5.3 | ug/kg | |
| 93FW1565041 | SL | 8260 | 1,3-Dichlorobenzene | ND | 5.3 | ug/kg | |
| 93FW1565041 | SL | 8260 | 1.4-Dibhlorobenzene | ND | 5.3 | ug/kg | |
| 93FW1565041 | SL | 8260 | Dichlorodifluoromethane | ND | 5.3 | ug/kg | |
| 93FW1565041 | SL | 8260 | 1,1-Dichloroethane | ND | 5.3 | ug/kg | |
| 93FW1565041 | SL | 8260 | 1,2-Dichloroethane | ND | 5.3 | ug/kg | |
| 93FW1565041 | SL | 8260 | 1,1-Dichloroethene | ND | 5.3 | ug/kg | |
| 93FW1565041 | SL | 8260 | cis-1,2-Dichloroethene | ND | 5.3 | ug/kg | |
| 93FW1565041 | SL | 8260 | trans-1,2-Dichloroethene | ND | 5.3 | ug/kg | |
| 93FW1565041 | SL | 8260 | 1,2-Dichloropropane | ND | 5.3 | ug/kg | |
| 93FW1565041 | SL | 8260 | 1,3-Dichloropropane | ND | 5.3 | ug/kg | |
| 93FW1565041 | SL | 8260 | 2,2-Dichloropropane | ND | 5.3 | ug/kg | |
| 93FW1565041 | SL | 8260 | trans-1,3-Dichloropropene | ND | 5.3 | ug/kg | |
| 93FW1565041 | SL | 8260 | 1,1-Dichloropropene | ND | 5.3 | ug/kg | |
| 93FW1565041 | SL | 8260 | cis-1,3-Dichloropropene | ND | 5.3 | ug/kg | |
| 93FW1565041 | SL | 8260 | Ethyl benzene | ND | 5.3 | ug/kg | |
| 93FW1565041 | SL | 8260 | Hexachlorobutadiene | ND | 5.3 | ug/kg | |
| 93FW1565041 | SL | 8260 | Isopropylbenzene | ND | 5.3 | ug/kg | |
| 93FW1565041 | SL | 8260 | p-Isopropyltoluene | ND | 5.3 | ug/kg | |
| 93FW1565041 | SL | 8260 | Methylene chloride | 13.0 | 5.3 | ug/kg | B-O |
| 93FW1565041 | SL | 8260 | Naphthalene | ND | 5.3 | ug/kg | |
| 93FW1565041 | SL | 8260 | n-Propylbenzene | ND | 5.3 | ug/kg | |
| 93FW1565041 | SL | 8260 | Styrene | ND | 5.3 | ug/kg | |
| 93FW1565041 | SL | 8260 | 1,1,1,2-Tetrachloroethane | ND | 5.3 | ug/kg | |
| 93FW1565041 | SL | 8260 | 1,1,2,2,-Tetrachloroethane | ND | 5.3 | ug/kg | |
| 93FW1565041 | SL | 8260 | Tetrachloroethene | ND | 5.3 | ug/kg | |
| 93FW1565041 | SL | 8260 | 1,2,3-Trichlorobenzene | ND | 5.3 | ug/kg | |
| 93FW1565041 | SL | 8260 | 1,2,4-Trichlorobenzene | ND | 5.3 | ug/kg | |
| 93FW1565041 | SL | 8260 | 1,1,1-Trichloroethane | ND | 5.3 | ug/kg | |
| 93FW1565041 | SL | 8260 | 1,1,2-Trichloroethane | ND | 5.3 | ug/kg | |
| 93FW1565041 | SL | 8260 | Trichloroethene | ND | 5.3 | ug/kg | |
| 93FW1565041 | SL | 8260 | Trichlorofluoromethane | ND | 5.3 | ug/kg | |
| 93FW1565041 | SL | 8260 | 1,2,3-Trichloropropane | ND | 5.3 | ug/kg | |
| 93FW1565041 | SL | 8260 | 1.2.4-Trimethylbenzene | ND | 5.3 | ug/kg | |

# 1993 Building 1565 Soil Data

| Sample Number | | Method | Chemical | Det Conc | Det Limit | Units | Flags |
|---|---|---|---|---|---|---|---|
| 93FW1565041 | SL | 8260 | 1,3,5-Trimethylbenzene | ND | 5.3 | ug/kg | |
| 93FW1565041 | SL | 8260 | Toulene | ND | 5.3 | ug/kg | |
| 93FW1565041 | SL | 8260 | Vinyl chloride | ND | 5.3 | ug/kg | |
| 93FW1565041 | SL | 8260 | o-Xylene | ND | 5.3 | ug/kg | |
| 93FW1565041 | SL | 8260 | m & p-Xylene | ND | 5.3 | ug/kg | |
| 93FW1565041 | SL | 8260 | SURROGATE RESULTS | - - | | | |
| 93FW1565041 | SL | 8260 | 4-Bromofluorobenzene (SURR) | 118.0 | | | MI |
| 93FW1565041 | SL | 8260 | Toluene-d8 (SURR) | 78.0 | | | |
| 93FW1565041 | SL | 8260 | 1,2-Dichloroethane-d4 (SURR) | 100.0 | | | |
| 93FW1565042 | SL | 418.1 | TRPH | 65.0 | 11.0 | mg/kg | |
| 93FW1565042 | SL | 7421 | Lead (GFAA) | 4.5 | 0.2 | mg/kg | |
| 93FW1565042 | SL | 8015M | Gasoline Range Organics | 49.0 | 1.0 | mg/kg | |
| 93FW1565042 | SL | 8015M | SURROGATE RESULTS | - - | | | |
| 93FW1565042 | SL | 8015M | Bromofluorobenzene (SURR) | 112.0 | | | MI |
| 93FW1565042 | SL | 8100M | Diesel Range Organics | 24.0 | 4.5 | mg/kg | |
| 93FW1565042 | SL | 8100M | SURROGATE RESULTS | - - | | | |
| 93FW1565042 | SL | 8100M | Ortho-terphenyl (SURR) | 89.0 | | | |
| 93FW1565042 | SL | 8260 | Acetone | 31.0 | 12.0 | ug/kg | B-O |
| 93FW1565042 | SL | 8260 | Benzene | ND | 6.2 | ug/kg | |
| 93FW1565042 | SL | 8260 | Bromobenzene | ND | 6.2 | ug/kg | |
| 93FW1565042 | SL | 8260 | Bromochloromethane | ND | 6.2 | ug/kg | |
| 93FW1565042 | SL | 8260 | Bromodichloromethane | ND | 6.2 | ug/kg | |
| 93FW1565042 | SL | 8260 | Bromoform | ND | 6.2 | ug/kg | |
| 93FW1565042 | SL | 8260 | Bromomethane | ND | 6.2 | ug/kg | |
| 93FW1565042 | SL | 8260 | 2-Butanone | ND | 12.0 | ug/kg | |
| 93FW1565042 | SL | 8260 | n-Butylbenzene | ND | 6.2 | ug/kg | |
| 93FW1565042 | SL | 8260 | sec-Butylbenzene | 79.0 | 6.2 | ug/kg | FB |
| 93FW1565042 | SL | 8260 | tert-Butylbenzene | ND | 6.2 | ug/kg | |
| 93FW1565042 | SL | 8260 | Carbon Tetrachloride | ND | 6.2 | ug/kg | |
| 93FW1565042 | SL | 8260 | Chlorobenzene | ND | 6.2 | ug/kg | |
| 93FW1565042 | SL | 8260 | Chloroethane | ND | 6.2 | ug/kg | |
| 93FW1565042 | SL | 8260 | Chloroform | ND | 6.2 | ug/kg | |
| 93FW1565042 | SL | 8260 | Chloromethane | ND | 6.2 | ug/kg | |
| 93FW1565042 | SL | 8260 | 2-Chlorotoluene | ND | 6.2 | ug/kg | |
| 93FW1565042 | SL | 8260 | 4-Chlrortoluene | ND | 6.2 | ug/kg | |
| 93FW1565042 | SL | 8260 | 1,2-Dibromo-3-chloropropane | ND | 6.2 | ug/kg | |
| 93FW1565042 | SL | 8260 | 1,2-Dibromoethane | ND | 6.2 | ug/kg | |
| 93FW1565042 | SL | 8260 | Dibromochloromethane | ND | 6.2 | ug/kg | |
| 93FW1565042 | SL | 8260 | Dibromomethane | ND | 6.2 | ug/kg | |
| 93FW1565042 | SL | 8260 | 1,2-Dichlorobenzene | ND | 6.2 | ug/kg | |
| 93FW1565042 | SL | 8260 | 1,3-Dichlorobenzene | ND | 6.2 | ug/kg | |
| 93FW1565042 | SL | 8260 | 1.4-Dibhlorobenzene | ND | 6.2 | ug/kg | |
| 93FW1565042 | SL | 8260 | Dichlorodifluoromethane | ND | 6.2 | ug/kg | |
| 93FW1565042 | SL | 8260 | 1,1-Dichloroethane | ND | 6.2 | ug/kg | |
| 93FW1565042 | SL | 8260 | 1,2-Dichloroethane | ND | 6.2 | ug/kg | |
| 93FW1565042 | SL | 8260 | 1,1-Dichloroethene | ND | 6.2 | ug/kg | |
| 93FW1565042 | SL | 8260 | cis-1,2-Dichloroethene | ND | 6.2 | ug/kg | |
| 93FW1565042 | SL | 8260 | trans-1,2-Dichloroethene | ND | 6.2 | ug/kg | |
| 93FW1565042 | SL | 8260 | 1,2-Dichloropropane | ND | 6.2 | ug/kg | |
| 93FW1565042 | SL | 8260 | 1,3-Dichloropropane | ND | 6.2 | ug/kg | |
| 93FW1565042 | SL | 8260 | 2,2-Dichloropropane | ND | 6.2 | ug/kg | |
| 93FW1565042 | SL | 8260 | trans-1,3-Dichloropropene | ND | 6.2 | ug/kg | |
| 93FW1565042 | SL | 8260 | 1,1-Dichloropropene | ND | 6.2 | ug/kg | |
| 93FW1565042 | SL | 8260 | cis-1,3-Dichloropropene | ND | 6.2 | ug/kg | |
| 93FW1565042 | SL | 8260 | Ethyl benzene | 160.0 | 6.2 | ug/kg | FB |
| 93FW1565042 | SL | 8260 | Hexachlorobutadiene | ND | 6.2 | ug/kg | |
| 93FW1565042 | SL | 8260 | Isopropylbenzene | 8.6 | 6.2 | ug/kg | |
| 93FW1565042 | SL | 8260 | p-Isopropyltoluene | 70.0 | 6.2 | ug/kg | |
| 93FW1565042 | SL | 8260 | Methylene chloride | ND | 6.2 | ug/kg | |
| 93FW1565042 | SL | 8260 | Naphthalene | 27.0 | 6.2 | ug/kg | |
| 93FW1565042 | SL | 8260 | n-Propylbenzene | 172.0 | 6.2 | ug/kg | FB |
| 93FW1565042 | SL | 8260 | Styrene | ND | 6.2 | ug/kg | |
| 93FW1565042 | SL | 8260 | 1,1,1,2-Tetrachloroethane | ND | 6.2 | ug/kg | |
| 93FW1565042 | SL | 8260 | 1,1,2,2,-Tetrachloroethane | ND | 6.2 | ug/kg | |
| 93FW1565042 | SL | 8260 | Tetrachloroethene | ND | 6.2 | ug/kg | |
| 93FW1565042 | SL | 8260 | 1,2,3-Trichlorobenzene | ND | 6.2 | ug/kg | |
| 93FW1565042 | SL | 8260 | 1,2,4-Trichlorobenzene | ND | 6.2 | ug/kg | |
| 93FW1565042 | SL | 8260 | 1,1,1-Trichloroethane | ND | 6.2 | ug/kg | |

# 1993 Building 1565 Soil Data

| Sample Number | | Method | Chemical | Det Conc | Det Limit | Units | Flags |
|---|---|---|---|---|---|---|---|
| 93FW1565042 | SL | 8260 | 1,1,2-Trichloroethane | ND | 6.2 | ug/kg | |
| 93FW1565042 | SL | 8260 | Trichloroethene | ND | 6.2 | ug/kg | |
| 93FW1565042 | SL | 8260 | Trichlorofluoromethane | ND | 6.2 | ug/kg | |
| 93FW1565042 | SL | 8260 | 1,2,3-Trichloropropane | ND | 6.2 | ug/kg | |
| 93FW1565042 | SL | 8260 | 1.2.4-Trimethylbenzene | 751.0 | 6.2 | ug/kg | FC |
| 93FW1565042 | SL | 8260 | 1,3,5-Trimethylbenzene | 837.0 | 6.2 | ug/kg | FB |
| 93FW1565042 | SL | 8260 | Toulene | ND | 6.2 | ug/kg | |
| 93FW1565042 | SL | 8260 | Vinyl chloride | ND | 6.2 | ug/kg | |
| 93FW1565042 | SL | 8260 | o-Xylene | 18.0 | 6.2 | ug/kg | |
| 93FW1565042 | SL | 8260 | m & p-Xylene | 776.0 | 6.2 | ug/kg | FB |
| 93FW1565042 | SL | 8260 | SURROGATE RESULTS | - - | | | |
| 93FW1565042 | SL | 8260 | 4-Bromofluorobenzene (SURR) | 115.0 | | | MI |
| 93FW1565042 | SL | 8260 | Toluene-d8 (SURR) | 207.0 | | | |
| 93FW1565042 | SL | 8260 | 1,2-Dichloroethane-d4 (SURR) | 112.0 | | | |
| 93FW1565043 | SL | 418.1 | TRPH | 16.0 | 12.0 | mg/kg | |
| 93FW1565043 | SL | 7421 | Lead (GFAA) | 3.4 | 0.2 | mg/kg | |
| 93FW1565043 | SL | 8015M | Gasoline Range Organics | 42.0 | 1.0 | mg/kg | |
| 93FW1565043 | SL | 8015M | SURROGATE RESULTS | - - | | | |
| 93FW1565043 | SL | 8015M | Bromofluorobenzene (SURR) | 105.0 | | | |
| 93FW1565043 | SL | 8100m | Diesel Range Organics | 36.0 | 4.7 | mg/kg | |
| 93FW1565043 | SL | 8100m | SURROGATE RESULTS | - - | | | |
| 93FW1565043 | SL | 8100m | Ortho-terphenyl (SURR) | 85.0 | | | |
| 93FW1565043 | SL | 8260 | Acetone | 25.0 | 11.0 | ug/kg | B-O |
| 93FW1565043 | SL | 8260 | Benzene | ND | 5.5 | ug/kg | |
| 93FW1565043 | SL | 8260 | Bromobenzene | ND | 5.5 | ug/kg | |
| 93FW1565043 | SL | 8260 | Bromochloromethane | ND | 5.5 | ug/kg | |
| 93FW1565043 | SL | 8260 | Bromodichloromethane | ND | 5.5 | ug/kg | |
| 93FW1565043 | SL | 8260 | Bromoform | ND | 5.5 | ug/kg | |
| 93FW1565043 | SL | 8260 | Bromomethane | ND | 5.5 | ug/kg | |
| 93FW1565043 | SL | 8260 | 2-Butanone | ND | 11.0 | ug/kg | |
| 93FW1565043 | SL | 8260 | n-Butylbenzene | ND | 5.5 | ug/kg | |
| 93FW1565043 | SL | 8260 | sec-Butylbenzene | ND | 5.5 | ug/kg | |
| 93FW1565043 | SL | 8260 | tert-Butylbenzene | ND | 5.5 | ug/kg | |
| 93FW1565043 | SL | 8260 | Carbon Tetrachloride | ND | 5.5 | ug/kg | |
| 93FW1565043 | SL | 8260 | Chlorobenzene | ND | 5.5 | ug/kg | |
| 93FW1565043 | SL | 8260 | Chloroethane | ND | 5.5 | ug/kg | |
| 93FW1565043 | SL | 8260 | Chloroform | ND | 5.5 | ug/kg | |
| 93FW1565043 | SL | 8260 | Chloromethane | ND | 5.5 | ug/kg | |
| 93FW1565043 | SL | 8260 | 2-Chlorotoluene | ND | 5.5 | ug/kg | |
| 93FW1565043 | SL | 8260 | 4-Chlrortoluene | ND | 5.5 | ug/kg | |
| 93FW1565043 | SL | 8260 | 1,2-Dibromo-3-chloropropane | ND | 5.5 | ug/kg | |
| 93FW1565043 | SL | 8260 | 1,2-Dibromoethane | ND | 5.5 | ug/kg | |
| 93FW1565043 | SL | 8260 | Dibromochloromethane | ND | 5.5 | ug/kg | |
| 93FW1565043 | SL | 8260 | Dibromomethane | ND | 5.5 | ug/kg | |
| 93FW1565043 | SL | 8260 | 1,2-Dichlorobenzene | ND | 5.5 | ug/kg | |
| 93FW1565043 | SL | 8260 | 1,3-Dichlorobenzene | ND | 5.5 | ug/kg | |
| 93FW1565043 | SL | 8260 | 1.4-Dibhlorobenzene | ND | 5.5 | ug/kg | |
| 93FW1565043 | SL | 8260 | Dichlorodifluoromethane | ND | 5.5 | ug/kg | |
| 93FW1565043 | SL | 8260 | 1,1-Dichloroethane | ND | 5.5 | ug/kg | |
| 93FW1565043 | SL | 8260 | 1,2-Dichloroethane | ND | 5.5 | ug/kg | |
| 93FW1565043 | SL | 8260 | 1,1-Dichloroethene | ND | 5.5 | ug/kg | |
| 93FW1565043 | SL | 8260 | cis-1,2-Dichloroethene | ND | 5.5 | ug/kg | |
| 93FW1565043 | SL | 8260 | trans-1,2-Dichloroethene | ND | 5.5 | ug/kg | |
| 93FW1565043 | SL | 8260 | 1,2-Dichloropropane | ND | 5.5 | ug/kg | |
| 93FW1565043 | SL | 8260 | 1,3-Dichloropropane | ND | 5.5 | ug/kg | |
| 93FW1565043 | SL | 8260 | 2,2-Dichloropropane | ND | 5.5 | ug/kg | |
| 93FW1565043 | SL | 8260 | trans-1,3-Dichloropropene | ND | 5.5 | ug/kg | |
| 93FW1565043 | SL | 8260 | 1,1-Dichloropropene | ND | 5.5 | ug/kg | |
| 93FW1565043 | SL | 8260 | cis-1,3-Dichloropropene | ND | 5.5 | ug/kg | |
| 93FW1565043 | SL | 8260 | Ethyl benzene | ND | 5.5 | ug/kg | |
| 93FW1565043 | SL | 8260 | Hexachlorobutadiene | ND | 5.5 | ug/kg | |
| 93FW1565043 | SL | 8260 | Isopropylbenzene | ND | 5.5 | ug/kg | |
| 93FW1565043 | SL | 8260 | p-Isopropyltoluene | 79.0 | 5.5 | ug/kg | |
| 93FW1565043 | SL | 8260 | Methylene chloride | ND | 5.5 | ug/kg | |
| 93FW1565043 | SL | 8260 | Naphthalene | 10.0 | 5.5 | ug/kg | |
| 93FW1565043 | SL | 8260 | n-Propylbenzene | ND | 5.5 | ug/kg | |
| 93FW1565043 | SL | 8260 | Styrene | ND | 5.5 | ug/kg | |
| 93FW1565043 | SL | 8260 | 1,1,1,2-Tetrachloroethane | ND | 5.5 | ug/kg | |

# 1993 Building 1565 Soil Data

| Sample Number | | Method | Chemical | Det Conc | Det Limit | Units | Flags |
|---|---|---|---|---|---|---|---|
| 93FW1565043 | SL | 8260 | 1,1,2,2,-Tetrachloroethane | ND | 5.5 | ug/kg | |
| 93FW1565043 | SL | 8260 | Tetrachloroethene | ND | 5.5 | ug/kg | |
| 93FW1565043 | SL | 8260 | 1,2,3-Trichlorobenzene | ND | 5.5 | ug/kg | |
| 93FW1565043 | SL | 8260 | 1,2,4-Trichlorobenzene | ND | 5.5 | ug/kg | |
| 93FW1565043 | SL | 8260 | 1,1,1-Trichloroethane | ND | 5.5 | ug/kg | |
| 93FW1565043 | SL | 8260 | 1,1,2-Trichloroethane | ND | 5.5 | ug/kg | |
| 93FW1565043 | SL | 8260 | Trichloroethene | ND | 5.5 | ug/kg | |
| 93FW1565043 | SL | 8260 | Trichlorofluoromethane | ND | 5.5 | ug/kg | |
| 93FW1565043 | SL | 8260 | 1,2,3-Trichloropropane | ND | 5.5 | ug/kg | |
| 93FW1565043 | SL | 8260 | 1.2.4-Trimethylbenzene | 209.0 | 5.5 | ug/kg | |
| 93FW1565043 | SL | 8260 | 1,3,5-Trimethylbenzene | 143.0 | 5.5 | ug/kg | FB |
| 93FW1565043 | SL | 8260 | Toulene | ND | 5.5 | ug/kg | |
| 93FW1565043 | SL | 8260 | Vinyl chloride | ND | 5.5 | ug/kg | |
| 93FW1565043 | SL | 8260 | o-Xylene | ND | 5.5 | ug/kg | |
| 93FW1565043 | SL | 8260 | m & p-Xylene | ND | 5.5 | ug/kg | |
| 93FW1565043 | SL | 8260 | SURROGATE RESULTS | - - | | | |
| 93FW1565043 | SL | 8260 | 4-Bromofluorobenzene (SURR) | 92.0 | | | MI |
| 93FW1565043 | SL | 8260 | Toluene-d8 (SURR) | 312.0 | | | |
| 93FW1565043 | SL | 8260 | 1,2-Dichloroethane-d4 (SURR) | 116.0 | | | |
| 93FW1565044 | SL | 8260 | Acetone | ND | 10.0 | ug/kg | |
| 93FW1565044 | SL | 8260 | Benzene | ND | 5.2 | ug/kg | |
| 93FW1565044 | SL | 8260 | Bromobenzene | ND | 5.2 | ug/kg | |
| 93FW1565044 | SL | 8260 | Bromochloromethane | ND | 5.2 | ug/kg | |
| 93FW1565044 | SL | 8260 | Bromodichloromethane | ND | 5.2 | ug/kg | |
| 93FW1565044 | SL | 8260 | Bromoform | ND | 5.2 | ug/kg | |
| 93FW1565044 | SL | 8260 | Bromomethane | ND | 5.2 | ug/kg | |
| 93FW1565044 | SL | 8260 | 2-Butanone | ND | 10.0 | ug/kg | |
| 93FW1565044 | SL | 8260 | n-Butylbenzene | ND | 5.2 | ug/kg | |
| 93FW1565044 | SL | 8260 | sec-Butylbenzene | ND | 5.2 | ug/kg | |
| 93FW1565044 | SL | 8260 | tert-Butylbenzene | ND | 5.2 | ug/kg | |
| 93FW1565044 | SL | 8260 | Carbon Tetrachloride | ND | 5.2 | ug/kg | |
| 93FW1565044 | SL | 8260 | Chlorobenzene | ND | 5.2 | ug/kg | |
| 93FW1565044 | SL | 8260 | Chloroethane | ND | 5.2 | ug/kg | |
| 93FW1565044 | SL | 8260 | Chloroform | ND | 5.2 | ug/kg | |
| 93FW1565044 | SL | 8260 | Chloromethane | ND | 5.2 | ug/kg | |
| 93FW1565044 | SL | 8260 | 2-Chlorotoluene | ND | 5.2 | ug/kg | |
| 93FW1565044 | SL | 8260 | 4-Chlrortoluene | ND | 5.2 | ug/kg | |
| 93FW1565044 | SL | 8260 | 1,2-Dibromo-3-chloropropane | ND | 5.2 | ug/kg | |
| 93FW1565044 | SL | 8260 | 1,2-Dibromoethane | ND | 5.2 | ug/kg | |
| 93FW1565044 | SL | 8260 | Dibromochloromethane | ND | 5.2 | ug/kg | |
| 93FW1565044 | SL | 8260 | Dibromomethane | ND | 5.2 | ug/kg | |
| 93FW1565044 | SL | 8260 | 1,2-Dichlorobenzene | ND | 5.2 | ug/kg | |
| 93FW1565044 | SL | 8260 | 1,3-Dichlorobenzene | ND | 5.2 | ug/kg | |
| 93FW1565044 | SL | 8260 | 1.4-Dibhlorobenzene | ND | 5.2 | ug/kg | |
| 93FW1565044 | SL | 8260 | Dichlorodifluoromethane | ND | 5.2 | ug/kg | |
| 93FW1565044 | SL | 8260 | 1,1-Dichloroethane | ND | 5.2 | ug/kg | |
| 93FW1565044 | SL | 8260 | 1,2-Dichloroethane | ND | 5.2 | ug/kg | |
| 93FW1565044 | SL | 8260 | 1,1-Dichloroethene | ND | 5.2 | ug/kg | |
| 93FW1565044 | SL | 8260 | cis-1,2-Dichloroethene | ND | 5.2 | ug/kg | |
| 93FW1565044 | SL | 8260 | trans-1,2-Dichloroethene | ND | 5.2 | ug/kg | |
| 93FW1565044 | SL | 8260 | 1,2-Dichloropropane | ND | 5.2 | ug/kg | |
| 93FW1565044 | SL | 8260 | 1,3-Dichloropropane | ND | 5.2 | ug/kg | |
| 93FW1565044 | SL | 8260 | 2,2-Dichloropropane | ND | 5.2 | ug/kg | |
| 93FW1565044 | SL | 8260 | trans-1,3-Dichloropropene | ND | 5.2 | ug/kg | |
| 93FW1565044 | SL | 8260 | 1,1-Dichloropropene | ND | 5.2 | ug/kg | |
| 93FW1565044 | SL | 8260 | cis-1,3-Dichloropropene | ND | 5.2 | ug/kg | |
| 93FW1565044 | SL | 8260 | Ethyl benzene | ND | 5.2 | ug/kg | |
| 93FW1565044 | SL | 8260 | Hexachlorobutadiene | ND | 5.2 | ug/kg | |
| 93FW1565044 | SL | 8260 | Isopropylbenzene | ND | 5.2 | ug/kg | |
| 93FW1565044 | SL | 8260 | p-Isopropyltoluene | ND | 5.2 | ug/kg | |
| 93FW1565044 | SL | 8260 | Methylene chloride | 5.4 | 5.2 | ug/kg | |
| 93FW1565044 | SL | 8260 | Naphthalene | ND | 5.2 | ug/kg | |
| 93FW1565044 | SL | 8260 | n-Propylbenzene | ND | 5.2 | ug/kg | |
| 93FW1565044 | SL | 8260 | Styrene | ND | 5.2 | ug/kg | |
| 93FW1565044 | SL | 8260 | 1,1,1,2-Tetrachloroethane | ND | 5.2 | ug/kg | |
| 93FW1565044 | SL | 8260 | 1,1,2,2,-Tetrachloroethane | ND | 5.2 | ug/kg | |
| 93FW1565044 | SL | 8260 | Tetrachloroethene | ND | 5.2 | ug/kg | |
| 93FW1565044 | SL | 8260 | 1,2,3-Trichlorobenzene | ND | 5.2 | ug/kg | |

# 1993 Building 1565 Soil Data

| Sample Number | | Method | Chemical | Det Conc | Det Limit | Units | Flags |
|---|---|---|---|---|---|---|---|
| 93FW1565044 | SL | 8260 | 1,2,4-Trichlorobenzene | ND | 5.2 | ug/kg | |
| 93FW1565044 | SL | 8260 | 1,1,1-Trichloroethane | ND | 5.2 | ug/kg | |
| 93FW1565044 | SL | 8260 | 1,1,2-Trichloroethane | ND | 5.2 | ug/kg | |
| 93FW1565044 | SL | 8260 | Trichloroethene | ND | 5.2 | ug/kg | |
| 93FW1565044 | SL | 8260 | Trichlorofluoromethane | ND | 5.2 | ug/kg | |
| 93FW1565044 | SL | 8260 | 1,2,3-Trichloropropane | ND | 5.2 | ug/kg | |
| 93FW1565044 | SL | 8260 | 1.2.4-Trimethylbenzene | ND | 5.2 | ug/kg | |
| 93FW1565044 | SL | 8260 | 1,3,5-Trimethylbenzene | ND | 5.2 | ug/kg | |
| 93FW1565044 | SL | 8260 | Toulene | ND | 5.2 | ug/kg | |
| 93FW1565044 | SL | 8260 | Vinyl chloride | ND | 5.2 | ug/kg | |
| 93FW1565044 | SL | 8260 | o-Xylene | ND | 5.2 | ug/kg | |
| 93FW1565044 | SL | 8260 | m & p-Xylene | ND | 5.2 | ug/kg | |
| 93FW1565044 | SL | 8260 | SURROGATE RESULTS | - - | | | |
| 93FW1565044 | SL | 8260 | 4-Bromofluorobenzene (SURR) | 113.0 | | | |
| 93FW1565044 | SL | 8260 | Toluene-d8 (SURR) | 97.0 | | | |
| 93FW1565044 | SL | 8260 | 1,2-Dichloroethane-d4 (SURR) | 96.0 | | | |
| 93FW1565045 | SL | 8260 | Acetone | 15.0 | 10.0 | ug/kg | |
| 93FW1565045 | SL | 8260 | Benzene | ND | 5.3 | ug/kg | |
| 93FW1565045 | SL | 8260 | Bromobenzene | ND | 5.3 | ug/kg | |
| 93FW1565045 | SL | 8260 | Bromochloromethane | ND | 5.3 | ug/kg | |
| 93FW1565045 | SL | 8260 | Bromodichloromethane | ND | 5.3 | ug/kg | |
| 93FW1565045 | SL | 8260 | Bromoform | ND | 5.3 | ug/kg | |
| 93FW1565045 | SL | 8260 | Bromomethane | ND | 5.3 | ug/kg | |
| 93FW1565045 | SL | 8260 | 2-Butanone | ND | 10.0 | ug/kg | |
| 93FW1565045 | SL | 8260 | n-Butylbenzene | ND | 5.3 | ug/kg | |
| 93FW1565045 | SL | 8260 | sec-Butylbenzene | ND | 5.3 | ug/kg | |
| 93FW1565045 | SL | 8260 | tert-Butylbenzene | ND | 5.3 | ug/kg | |
| 93FW1565045 | SL | 8260 | Carbon Tetrachloride | ND | 5.3 | ug/kg | |
| 93FW1565045 | SL | 8260 | Chlorobenzene | ND | 5.3 | ug/kg | |
| 93FW1565045 | SL | 8260 | Chloroethane | ND | 5.3 | ug/kg | |
| 93FW1565045 | SL | 8260 | Chloroform | ND | 5.3 | ug/kg | |
| 93FW1565045 | SL | 8260 | Chloromethane | ND | 5.3 | ug/kg | |
| 93FW1565045 | SL | 8260 | 2-Chlorotoluene | ND | 5.3 | ug/kg | |
| 93FW1565045 | SL | 8260 | 4-Chlrortoluene | ND | 5.3 | ug/kg | |
| 93FW1565045 | SL | 8260 | 1,2-Dibromo-3-chloropropane | ND | 5.3 | ug/kg | |
| 93FW1565045 | SL | 8260 | 1,2-Dibromoethane | ND | 5.3 | ug/kg | |
| 93FW1565045 | SL | 8260 | Dibromochloromethane | ND | 5.3 | ug/kg | |
| 93FW1565045 | SL | 8260 | Dibromomethane | ND | 5.3 | ug/kg | |
| 93FW1565045 | SL | 8260 | 1,2-Dichlorobenzene | ND | 5.3 | ug/kg | |
| 93FW1565045 | SL | 8260 | 1,3-Dichlorobenzene | ND | 5.3 | ug/kg | |
| 93FW1565045 | SL | 8260 | 1.4-Dibhlorobenzene | ND | 5.3 | ug/kg | |
| 93FW1565045 | SL | 8260 | Dichlorodifluoromethane | ND | 5.3 | ug/kg | |
| 93FW1565045 | SL | 8260 | 1,1-Dichloroethane | ND | 5.3 | ug/kg | |
| 93FW1565045 | SL | 8260 | 1,2-Dichloroethane | ND | 5.3 | ug/kg | |
| 93FW1565045 | SL | 8260 | 1,1-Dichloroethene | ND | 5.3 | ug/kg | |
| 93FW1565045 | SL | 8260 | cis-1,2-Dichloroethene | ND | 5.3 | ug/kg | |
| 93FW1565045 | SL | 8260 | trans-1,2-Dichloroethene | ND | 5.3 | ug/kg | |
| 93FW1565045 | SL | 8260 | 1,2-Dichloropropane | ND | 5.3 | ug/kg | |
| 93FW1565045 | SL | 8260 | 1,3-Dichloropropane | ND | 5.3 | ug/kg | |
| 93FW1565045 | SL | 8260 | 2,2-Dichloropropane | ND | 5.3 | ug/kg | |
| 93FW1565045 | SL | 8260 | trans-1,3-Dichloropropene | ND | 5.3 | ug/kg | |
| 93FW1565045 | SL | 8260 | 1,1-Dichloropropene | ND | 5.3 | ug/kg | |
| 93FW1565045 | SL | 8260 | cis-1,3-Dichloropropene | ND | 5.3 | ug/kg | |
| 93FW1565045 | SL | 8260 | Ethyl benzene | ND | 5.3 | ug/kg | |
| 93FW1565045 | SL | 8260 | Hexachlorobutadiene | ND | 5.3 | ug/kg | |
| 93FW1565045 | SL | 8260 | Isopropylbenzene | ND | 5.3 | ug/kg | |
| 93FW1565045 | SL | 8260 | p-Isopropyltoluene | ND | 5.3 | ug/kg | |
| 93FW1565045 | SL | 8260 | Methylene chloride | ND | 5.3 | ug/kg | |
| 93FW1565045 | SL | 8260 | Naphthalene | ND | 5.3 | ug/kg | |
| 93FW1565045 | SL | 8260 | n-Propylbenzene | ND | 5.3 | ug/kg | |
| 93FW1565045 | SL | 8260 | Styrene | ND | 5.3 | ug/kg | |
| 93FW1565045 | SL | 8260 | 1,1,1,2-Tetrachloroethane | ND | 5.3 | ug/kg | |
| 93FW1565045 | SL | 8260 | 1,1,2,2,-Tetrachloroethane | ND | 5.3 | ug/kg | |
| 93FW1565045 | SL | 8260 | Tetrachloroethene | ND | 5.3 | ug/kg | |
| 93FW1565045 | SL | 8260 | 1,2,3-Trichlorobenzene | ND | 5.3 | ug/kg | |
| 93FW1565045 | SL | 8260 | 1,2,4-Trichlorobenzene | ND | 5.3 | ug/kg | |
| 93FW1565045 | SL | 8260 | 1,1,1-Trichloroethane | ND | 5.3 | ug/kg | |
| 93FW1565045 | SL | 8260 | 1,1,2-Trichloroethane | ND | 5.3 | ug/kg | |

# 1993 Building 1565 Soil Data

| Sample Number | | Method | Chemical | Det Conc | Det Limit | Units | Flags |
|---|---|---|---|---|---|---|---|
| 93FW1565045 | SL | 8260 | Trichloroethene | ND | 5.3 | ug/kg | |
| 93FW1565045 | SL | 8260 | Trichlorofluoromethane | ND | 5.3 | ug/kg | |
| 93FW1565045 | SL | 8260 | 1,2,3-Trichloropropane | ND | 5.3 | ug/kg | |
| 93FW1565045 | SL | 8260 | 1.2.4-Trimethylbenzene | ND | 5.3 | ug/kg | |
| 93FW1565045 | SL | 8260 | 1,3,5-Trimethylbenzene | ND | 5.3 | ug/kg | |
| 93FW1565045 | SL | 8260 | Toulene | ND | 5.3 | ug/kg | |
| 93FW1565045 | SL | 8260 | Vinyl chloride | ND | 5.3 | ug/kg | |
| 93FW1565045 | SL | 8260 | o-Xylene | ND | 5.3 | ug/kg | |
| 93FW1565045 | SL | 8260 | m & p-Xylene | ND | 5.3 | ug/kg | |
| 93FW1565045 | SL | 8260 | SURROGATE RESULTS | - - | | | |
| 93FW1565045 | SL | 8260 | 4-Bromofluorobenzene (SURR) | 114.0 | | | |
| 93FW1565045 | SL | 8260 | Toluene-d8 (SURR) | 81.0 | | | |
| 93FW1565045 | SL | 8260 | 1,2-Dichloroethane-d4 (SURR) | 97.0 | | | |
| 93FW1565046 | SL | 8260 | Acetone | ND | 11.0 | ug/kg | |
| 93FW1565046 | SL | 8260 | Benzene | ND | 5.4 | ug/kg | |
| 93FW1565046 | SL | 8260 | Bromobenzene | ND | 5.4 | ug/kg | |
| 93FW1565046 | SL | 8260 | Bromochloromethane | ND | 5.4 | ug/kg | |
| 93FW1565046 | SL | 8260 | Bromodichloromethane | ND | 5.4 | ug/kg | |
| 93FW1565046 | SL | 8260 | Bromoform | ND | 5.4 | ug/kg | |
| 93FW1565046 | SL | 8260 | Bromomethane | ND | 5.4 | ug/kg | |
| 93FW1565046 | SL | 8260 | 2-Butanone | ND | 11.0 | ug/kg | |
| 93FW1565046 | SL | 8260 | n-Butylbenzene | ND | 5.4 | ug/kg | |
| 93FW1565046 | SL | 8260 | sec-Butylbenzene | ND | 5.4 | ug/kg | |
| 93FW1565046 | SL | 8260 | tert-Butylbenzene | ND | 5.4 | ug/kg | |
| 93FW1565046 | SL | 8260 | Carbon Tetrachloride | ND | 5.4 | ug/kg | |
| 93FW1565046 | SL | 8260 | Chlorobenzene | ND | 5.4 | ug/kg | |
| 93FW1565046 | SL | 8260 | Chloroethane | ND | 5.4 | ug/kg | |
| 93FW1565046 | SL | 8260 | Chloroform | ND | 5.4 | ug/kg | |
| 93FW1565046 | SL | 8260 | Chloromethane | ND | 5.4 | ug/kg | |
| 93FW1565046 | SL | 8260 | 2-Chlorotoluene | ND | 5.4 | ug/kg | |
| 93FW1565046 | SL | 8260 | 4-Chlrortoluene | ND | 5.4 | ug/kg | |
| 93FW1565046 | SL | 8260 | 1,2-Dibromo-3-chloropropane | ND | 5.4 | ug/kg | |
| 93FW1565046 | SL | 8260 | 1,2-Dibromoethane | ND | 5.4 | ug/kg | |
| 93FW1565046 | SL | 8260 | Dibromochloromethane | ND | 5.4 | ug/kg | |
| 93FW1565046 | SL | 8260 | Dibromomethane | ND | 5.4 | ug/kg | |
| 93FW1565046 | SL | 8260 | 1,2-Dichlorobenzene | ND | 5.4 | ug/kg | |
| 93FW1565046 | SL | 8260 | 1,3-Dichlorobenzene | ND | 5.4 | ug/kg | |
| 93FW1565046 | SL | 8260 | 1.4-Dibhlorobenzene | ND | 5.4 | ug/kg | |
| 93FW1565046 | SL | 8260 | Dichlorodifluoromethane | ND | 5.4 | ug/kg | |
| 93FW1565046 | SL | 8260 | 1,1-Dichloroethane | ND | 5.4 | ug/kg | |
| 93FW1565046 | SL | 8260 | 1,2-Dichloroethane | ND | 5.4 | ug/kg | |
| 93FW1565046 | SL | 8260 | 1,1-Dichloroethene | ND | 5.4 | ug/kg | |
| 93FW1565046 | SL | 8260 | cis-1,2-Dichloroethene | ND | 5.4 | ug/kg | |
| 93FW1565046 | SL | 8260 | trans-1,2-Dichloroethene | ND | 5.4 | ug/kg | |
| 93FW1565046 | SL | 8260 | 1,2-Dichloropropane | ND | 5.4 | ug/kg | |
| 93FW1565046 | SL | 8260 | 1,3-Dichloropropane | ND | 5.4 | ug/kg | |
| 93FW1565046 | SL | 8260 | 2,2-Dichloropropane | ND | 5.4 | ug/kg | |
| 93FW1565046 | SL | 8260 | trans-1,3-Dichloropropene | ND | 5.4 | ug/kg | |
| 93FW1565046 | SL | 8260 | 1,1-Dichloropropene | ND | 5.4 | ug/kg | |
| 93FW1565046 | SL | 8260 | cis-1,3-Dichloropropene | ND | 5.4 | ug/kg | |
| 93FW1565046 | SL | 8260 | Ethyl benzene | ND | 5.4 | ug/kg | |
| 93FW1565046 | SL | 8260 | Hexachlorobutadiene | ND | 5.4 | ug/kg | |
| 93FW1565046 | SL | 8260 | Isopropylbenzene | ND | 5.4 | ug/kg | |
| 93FW1565046 | SL | 8260 | p-Isopropyltoluene | ND | 5.4 | ug/kg | |
| 93FW1565046 | SL | 8260 | Methylene chloride | 7.1 | 5.4 | ug/kg | |
| 93FW1565046 | SL | 8260 | Naphthalene | ND | 5.4 | ug/kg | |
| 93FW1565046 | SL | 8260 | n-Propylbenzene | ND | 5.4 | ug/kg | |
| 93FW1565046 | SL | 8260 | Styrene | ND | 5.4 | ug/kg | |
| 93FW1565046 | SL | 8260 | 1,1,1,2-Tetrachloroethane | ND | 5.4 | ug/kg | |
| 93FW1565046 | SL | 8260 | 1,1,2,2,-Tetrachloroethane | ND | 5.4 | ug/kg | |
| 93FW1565046 | SL | 8260 | Tetrachloroethene | ND | 5.4 | ug/kg | |
| 93FW1565046 | SL | 8260 | 1,2,3-Trichlorobenzene | ND | 5.4 | ug/kg | |
| 93FW1565046 | SL | 8260 | 1,2,4-Trichlorobenzene | ND | 5.4 | ug/kg | |
| 93FW1565046 | SL | 8260 | 1,1,1-Trichloroethane | ND | 5.4 | ug/kg | |
| 93FW1565046 | SL | 8260 | 1,1,2-Trichloroethane | ND | 5.4 | ug/kg | |
| 93FW1565046 | SL | 8260 | Trichloroethene | ND | 5.4 | ug/kg | |
| 93FW1565046 | SL | 8260 | Trichlorofluoromethane | ND | 5.4 | ug/kg | |
| 93FW1565046 | SL | 8260 | 1,2,3-Trichloropropane | ND | 5.4 | ug/kg | |

# 1993 Building 1565 Soil Data

| Sample Number | | Method | Chemical | Det Conc | Det Limit | Units | Flags |
|---|---|---|---|---|---|---|---|
| 93FW1565046 | SL | 8260 | 1.2.4-Trimethylbenzene | ND | 5.4 | ug/kg | |
| 93FW1565046 | SL | 8260 | 1,3,5-Trimethylbenzene | ND | 5.4 | ug/kg | |
| 93FW1565046 | SL | 8260 | Toulene | ND | 5.4 | ug/kg | |
| 93FW1565046 | SL | 8260 | Vinyl chloride | ND | 5.4 | ug/kg | |
| 93FW1565046 | SL | 8260 | o-Xylene | ND | 5.4 | ug/kg | |
| 93FW1565046 | SL | 8260 | m & p-Xylene | ND | 5.4 | ug/kg | |
| 93FW1565046 | SL | 8260 | SURROGATE RESULTS | - - | | | |
| 93FW1565046 | SL | 8260 | 4-Bromofluorobenzene (SURR) | 110.0 | | | |
| 93FW1565046 | SL | 8260 | Toluene-d8 (SURR) | 87.0 | | | |
| 93FW1565046 | SL | 8260 | 1,2-Dichloroethane-d4 (SURR) | 101.0 | | | |
| 93FW1565047 | SL | 8260 | Acetone | ND | 10.0 | ug/kg | |
| 93FW1565047 | SL | 8260 | Benzene | ND | 5.2 | ug/kg | |
| 93FW1565047 | SL | 8260 | Bromobenzene | ND | 5.2 | ug/kg | |
| 93FW1565047 | SL | 8260 | Bromochloromethane | ND | 5.2 | ug/kg | |
| 93FW1565047 | SL | 8260 | Bromodichloromethane | ND | 5.2 | ug/kg | |
| 93FW1565047 | SL | 8260 | Bromoform | ND | 5.2 | ug/kg | |
| 93FW1565047 | SL | 8260 | Bromomethane | ND | 5.2 | ug/kg | |
| 93FW1565047 | SL | 8260 | 2-Butanone | ND | 10.0 | ug/kg | |
| 93FW1565047 | SL | 8260 | n-Butylbenzene | ND | 5.2 | ug/kg | |
| 93FW1565047 | SL | 8260 | sec-Butylbenzene | ND | 5.2 | ug/kg | |
| 93FW1565047 | SL | 8260 | tert-Butylbenzene | ND | 5.2 | ug/kg | |
| 93FW1565047 | SL | 8260 | Carbon Tetrachloride | ND | 5.2 | ug/kg | |
| 93FW1565047 | SL | 8260 | Chlorobenzene | ND | 5.2 | ug/kg | |
| 93FW1565047 | SL | 8260 | Chloroethane | ND | 5.2 | ug/kg | |
| 93FW1565047 | SL | 8260 | Chloroform | ND | 5.2 | ug/kg | |
| 93FW1565047 | SL | 8260 | Chloromethane | ND | 5.2 | ug/kg | |
| 93FW1565047 | SL | 8260 | 2-Chlorotoluene | ND | 5.2 | ug/kg | |
| 93FW1565047 | SL | 8260 | 4-Chlrortoluene | ND | 5.2 | ug/kg | |
| 93FW1565047 | SL | 8260 | 1,2-Dibromo-3-chloropropane | ND | 5.2 | ug/kg | |
| 93FW1565047 | SL | 8260 | 1,2-Dibromoethane | ND | 5.2 | ug/kg | |
| 93FW1565047 | SL | 8260 | Dibromochloromethane | ND | 5.2 | ug/kg | |
| 93FW1565047 | SL | 8260 | Dibromomethane | ND | 5.2 | ug/kg | |
| 93FW1565047 | SL | 8260 | 1,2-Dichlorobenzene | ND | 5.2 | ug/kg | |
| 93FW1565047 | SL | 8260 | 1,3-Dichlorobenzene | ND | 5.2 | ug/kg | |
| 93FW1565047 | SL | 8260 | 1.4-Dibhlorobenzene | ND | 5.2 | ug/kg | |
| 93FW1565047 | SL | 8260 | Dichlorodifluoromethane | ND | 5.2 | ug/kg | |
| 93FW1565047 | SL | 8260 | 1,1-Dichloroethane | ND | 5.2 | ug/kg | |
| 93FW1565047 | SL | 8260 | 1,2-Dichloroethane | ND | 5.2 | ug/kg | |
| 93FW1565047 | SL | 8260 | 1,1-Dichloroethene | ND | 5.2 | ug/kg | |
| 93FW1565047 | SL | 8260 | cis-1,2-Dichloroethene | ND | 5.2 | ug/kg | |
| 93FW1565047 | SL | 8260 | trans-1,2-Dichloroethene | ND | 5.2 | ug/kg | |
| 93FW1565047 | SL | 8260 | 1,2-Dichloropropane | ND | 5.2 | ug/kg | |
| 93FW1565047 | SL | 8260 | 1,3-Dichloropropane | ND | 5.2 | ug/kg | |
| 93FW1565047 | SL | 8260 | 2,2-Dichloropropane | ND | 5.2 | ug/kg | |
| 93FW1565047 | SL | 8260 | trans-1,3-Dichloropropene | ND | 5.2 | ug/kg | |
| 93FW1565047 | SL | 8260 | 1,1-Dichloropropene | ND | 5.2 | ug/kg | |
| 93FW1565047 | SL | 8260 | cis-1,3-Dichloropropene | ND | 5.2 | ug/kg | |
| 93FW1565047 | SL | 8260 | Ethyl benzene | ND | 5.2 | ug/kg | |
| 93FW1565047 | SL | 8260 | Hexachlorobutadiene | ND | 5.2 | ug/kg | |
| 93FW1565047 | SL | 8260 | Isopropylbenzene | ND | 5.2 | ug/kg | |
| 93FW1565047 | SL | 8260 | p-Isopropyltoluene | ND | 5.2 | ug/kg | |
| 93FW1565047 | SL | 8260 | Methylene chloride | 5.9 | 5.2 | ug/kg | |
| 93FW1565047 | SL | 8260 | Naphthalene | ND | 5.2 | ug/kg | |
| 93FW1565047 | SL | 8260 | n-Propylbenzene | ND | 5.2 | ug/kg | |
| 93FW1565047 | SL | 8260 | Styrene | ND | 5.2 | ug/kg | |
| 93FW1565047 | SL | 8260 | 1,1,1,2-Tetrachloroethane | ND | 5.2 | ug/kg | |
| 93FW1565047 | SL | 8260 | 1,1,2,2,-Tetrachloroethane | ND | 5.2 | ug/kg | |
| 93FW1565047 | SL | 8260 | Tetrachloroethene | ND | 5.2 | ug/kg | |
| 93FW1565047 | SL | 8260 | 1,2,3-Trichlorobenzene | ND | 5.2 | ug/kg | |
| 93FW1565047 | SL | 8260 | 1,2,4-Trichlorobenzene | ND | 5.2 | ug/kg | |
| 93FW1565047 | SL | 8260 | 1,1,1-Trichloroethane | ND | 5.2 | ug/kg | |
| 93FW1565047 | SL | 8260 | 1,1,2-Trichloroethane | ND | 5.2 | ug/kg | |
| 93FW1565047 | SL | 8260 | Trichloroethene | ND | 5.2 | ug/kg | |
| 93FW1565047 | SL | 8260 | Trichlorofluoromethane | ND | 5.2 | ug/kg | |
| 93FW1565047 | SL | 8260 | 1,2,3-Trichloropropane | ND | 5.2 | ug/kg | |
| 93FW1565047 | SL | 8260 | 1.2.4-Trimethylbenzene | ND | 5.2 | ug/kg | |
| 93FW1565047 | SL | 8260 | 1,3,5-Trimethylbenzene | ND | 5.2 | ug/kg | |
| 93FW1565047 | SL | 8260 | Toulene | ND | 5.2 | ug/kg | |

# 1993 Building 1565 Soil Data

| Sample Number | | Method | Chemical | Det Conc | Det Limit | Units | Flags |
|---|---|---|---|---|---|---|---|
| 93FW1565047 | SL | 8260 | Vinyl chloride | ND | 5.2 | ug/kg | |
| 93FW1565047 | SL | 8260 | o-Xylene | ND | 5.2 | ug/kg | |
| 93FW1565047 | SL | 8260 | m & p-Xylene | ND | 5.2 | ug/kg | |
| 93FW1565047 | SL | 8260 | SURROGATE RESULTS | - - | | | |
| 93FW1565047 | SL | 8260 | 4-Bromofluorobenzene (SURR) | 110.0 | | | |
| 93FW1565047 | SL | 8260 | Toluene-d8 (SURR) | 100.0 | | | |
| 93FW1565047 | SL | 8260 | 1,2-Dichloroethane-d4 (SURR) | 99.0 | | | |
| 93FW1565048 | SL | 8260 | Acetone | ND | 11.0 | ug/kg | |
| 93FW1565048 | SL | 8260 | Benzene | ND | 5.4 | ug/kg | |
| 93FW1565048 | SL | 8260 | Bromobenzene | ND | 5.4 | ug/kg | |
| 93FW1565048 | SL | 8260 | Bromochloromethane | ND | 5.4 | ug/kg | |
| 93FW1565048 | SL | 8260 | Bromodichloromethane | ND | 5.4 | ug/kg | |
| 93FW1565048 | SL | 8260 | Bromoform | ND | 5.4 | ug/kg | |
| 93FW1565048 | SL | 8260 | Bromomethane | ND | 5.4 | ug/kg | |
| 93FW1565048 | SL | 8260 | 2-Butanone | ND | 11.0 | ug/kg | |
| 93FW1565048 | SL | 8260 | n-Butylbenzene | ND | 5.4 | ug/kg | |
| 93FW1565048 | SL | 8260 | sec-Butylbenzene | ND | 5.4 | ug/kg | |
| 93FW1565048 | SL | 8260 | tert-Butylbenzene | ND | 5.4 | ug/kg | |
| 93FW1565048 | SL | 8260 | Carbon Tetrachloride | ND | 5.4 | ug/kg | |
| 93FW1565048 | SL | 8260 | Chlorobenzene | ND | 5.4 | ug/kg | |
| 93FW1565048 | SL | 8260 | Chloroethane | ND | 5.4 | ug/kg | |
| 93FW1565048 | SL | 8260 | Chloroform | ND | 5.4 | ug/kg | |
| 93FW1565048 | SL | 8260 | Chloromethane | ND | 5.4 | ug/kg | |
| 93FW1565048 | SL | 8260 | 2-Chlorotoluene | ND | 5.4 | ug/kg | |
| 93FW1565048 | SL | 8260 | 4-Chlrortoluene | ND | 5.4 | ug/kg | |
| 93FW1565048 | SL | 8260 | 1,2-Dibromo-3-chloropropane | ND | 5.4 | ug/kg | |
| 93FW1565048 | SL | 8260 | 1,2-Dibromoethane | ND | 5.4 | ug/kg | |
| 93FW1565048 | SL | 8260 | Dibromochloromethane | ND | 5.4 | ug/kg | |
| 93FW1565048 | SL | 8260 | Dibromomethane | ND | 5.4 | ug/kg | |
| 93FW1565048 | SL | 8260 | 1,2-Dichlorobenzene | ND | 5.4 | ug/kg | |
| 93FW1565048 | SL | 8260 | 1,3-Dichlorobenzene | ND | 5.4 | ug/kg | |
| 93FW1565048 | SL | 8260 | 1.4-Dibhlorobenzene | ND | 5.4 | ug/kg | |
| 93FW1565048 | SL | 8260 | Dichlorodifluoromethane | ND | 5.4 | ug/kg | |
| 93FW1565048 | SL | 8260 | 1,1-Dichloroethane | ND | 5.4 | ug/kg | |
| 93FW1565048 | SL | 8260 | 1,2-Dichloroethane | ND | 5.4 | ug/kg | |
| 93FW1565048 | SL | 8260 | 1,1-Dichloroethene | ND | 5.4 | ug/kg | |
| 93FW1565048 | SL | 8260 | cis-1,2-Dichloroethene | ND | 5.4 | ug/kg | |
| 93FW1565048 | SL | 8260 | trans-1,2-Dichloroethene | ND | 5.4 | ug/kg | |
| 93FW1565048 | SL | 8260 | 1,2-Dichloropropane | ND | 5.4 | ug/kg | |
| 93FW1565048 | SL | 8260 | 1,3-Dichloropropane | ND | 5.4 | ug/kg | |
| 93FW1565048 | SL | 8260 | 2,2-Dichloropropane | ND | 5.4 | ug/kg | |
| 93FW1565048 | SL | 8260 | trans-1,3-Dichloropropene | ND | 5.4 | ug/kg | |
| 93FW1565048 | SL | 8260 | 1,1-Dichloropropene | ND | 5.4 | ug/kg | |
| 93FW1565048 | SL | 8260 | cis-1,3-Dichloropropene | ND | 5.4 | ug/kg | |
| 93FW1565048 | SL | 8260 | Ethyl benzene | ND | 5.4 | ug/kg | |
| 93FW1565048 | SL | 8260 | Hexachlorobutadiene | ND | 5.4 | ug/kg | |
| 93FW1565048 | SL | 8260 | Isopropylbenzene | ND | 5.4 | ug/kg | |
| 93FW1565048 | SL | 8260 | p-Isopropyltoluene | ND | 5.4 | ug/kg | |
| 93FW1565048 | SL | 8260 | Methylene chloride | 5.9 | 5.4 | ug/kg | |
| 93FW1565048 | SL | 8260 | Naphthalene | ND | 5.4 | ug/kg | |
| 93FW1565048 | SL | 8260 | n-Propylbenzene | ND | 5.4 | ug/kg | |
| 93FW1565048 | SL | 8260 | Styrene | ND | 5.4 | ug/kg | |
| 93FW1565048 | SL | 8260 | 1,1,1,2-Tetrachloroethane | ND | 5.4 | ug/kg | |
| 93FW1565048 | SL | 8260 | 1,1,2,2,-Tetrachloroethane | ND | 5.4 | ug/kg | |
| 93FW1565048 | SL | 8260 | Tetrachloroethene | ND | 5.4 | ug/kg | |
| 93FW1565048 | SL | 8260 | 1,2,3-Trichlorobenzene | ND | 5.4 | ug/kg | |
| 93FW1565048 | SL | 8260 | 1,2,4-Trichlorobenzene | ND | 5.4 | ug/kg | |
| 93FW1565048 | SL | 8260 | 1,1,1-Trichloroethane | ND | 5.4 | ug/kg | |
| 93FW1565048 | SL | 8260 | 1,1,2-Trichloroethane | ND | 5.4 | ug/kg | |
| 93FW1565048 | SL | 8260 | Trichloroethene | ND | 5.4 | ug/kg | |
| 93FW1565048 | SL | 8260 | Trichlorofluoromethane | ND | 5.4 | ug/kg | |
| 93FW1565048 | SL | 8260 | 1,2,3-Trichloropropane | ND | 5.4 | ug/kg | |
| 93FW1565048 | SL | 8260 | 1.2.4-Trimethylbenzene | ND | 5.4 | ug/kg | |
| 93FW1565048 | SL | 8260 | 1,3,5-Trimethylbenzene | ND | 5.4 | ug/kg | |
| 93FW1565048 | SL | 8260 | Toulene | ND | 5.4 | ug/kg | |
| 93FW1565048 | SL | 8260 | Vinyl chloride | ND | 5.4 | ug/kg | |
| 93FW1565048 | SL | 8260 | o-Xylene | ND | 5.4 | ug/kg | |
| 93FW1565048 | SL | 8260 | m & p-Xylene | ND | 5.4 | ug/kg | |

# 1993 Building 1565 Soil Data

| Sample Number | | Method | Chemical | Det Conc | Det Limit | Units | Flags |
|---|---|---|---|---|---|---|---|
| 93FW1565048 | SL | 8260 | SURROGATE RESULTS | - - | | | |
| 93FW1565048 | SL | 8260 | 4-Bromofluorobenzene (SURR) | 106.0 | | | |
| 93FW1565048 | SL | 8260 | Toluene-d8 (SURR) | 96.0 | | | |
| 93FW1565048 | SL | 8260 | 1,2-Dichloroethane-d4 (SURR) | 96.0 | | | |
| | | | | | | | |
| B-O: Analyte found in blank and sample. | | | | | | | |
| FB: Compound quantitated at a 5X dilution factor | | | | | | | |
| FC: Compound quantitated at a10X dilution factor | | | | | | | |
| MI: Matrix Interference | | | | | | | |

## Fort Wainwright Monitoring Well Information Summary

**Source: EMCON Alaska, September 1994**
**Final Fort Wainwright Groundwater Summary Report**
**Delivery Order No. 10**
**Contract No. DACA 85-93-D0013**

Note: Only data for wells in the OU 5 area are included (not all of Fort Wainwright).

# Fort Wainwright Monitoring Well Information Summary

| Site Name/ Operable Unit | Monitoring Well ID | Date Completed | Location Northing | Location Easting | Total Depth (feet MSL) | Elevation TOC (feet MSL) | Product Thickness or "Comments" | Elevation of Water (feet MSL) | Depth of Water (feet bgs) |
|---|---|---|---|---|---|---|---|---|---|
| Railcar Off-Load/OU-3 | AP-5537 | 8/19/89 | 291363 | 302666 | 24.00 | 447.25 | strong gasoline odor | 430.67 | 16.58 |
| Hanger#1 | AP-5863 | 1/30/93 | 291354 | 304340 | 25.00 | 448.70 | | | 18.40 |
| Building 1599/OU-1 | AP-5974 | 7/9/94 | 291487 | 302881 | 20.36 | 447.97 | 0.01 feet | 430.12 | 18.08 |
| Building 1599/OU-1 | AP-5975 | 7/9/94 | 292023 | 302718 | 20.86 | 448.07 | | 430.22 | 18.77 |
| Bldgs1053 & 1054/OU-1 | AP-5977 | 7/6/93 | 292257 | 304706 | 23.10 | 446.98 | | 429.38 | 16.56 |
| Bldgs1053 & 1054/OU-1 | AP-5981 | 7/7/93 | 292550 | 304812 | 23.00 | 446.63 | | 429.13 | 15.88 |
| Building 1567/OU-1 | AP-5982 | 7/14/93 | 291754 | 304591 | 25.18 | 446.83 | | 423.93 | 21.08 |
| Railcar Off-Load/OU-3 | AP-6011 | 9/20/93 | 292003 | 301677 | 29.00 | 448.11 | | 429.46 | 17.20 |
| Railcar Off-Load/OU-3 | AP-6012 | 9/20/93 | 291552 | 301261 | 28.00 | 445.39 | | 428.29 | 14.55 |
| Railcar Off-Load/OU-3 | AP-6016 | 9/27/93 | 291345 | 302682 | 18.50 | 447.32 | fuel staining, fuel odor during drilling | 431.72 | 15.6 |
| Railcar Off-Load/OU-3 | AP-6017 | 9/25/93 | 291371 | 302681 | 65.00 | 447.76 | strong fuel odor during drilling | 429.16 | 16.06 |
| Building 1565/OU-1 | AP-6181 | 8/23/93 | 291368 | 304809 | 23.50 | 446.60 | | 429.30 | 14.56 |
| Building 1565/OU-1 | AP-6182 | 8/22/93 | 291347 | 304480 | 23.50 | 451.23 | | 430.60 | 19.29 |
| Building 1565/OU-1 | AP-6183 | 8/22/93 | 291499 | 304521 | 23.50 | 449.69 | | 429.20 | 17.81 |
| Building 1565/OU-1 | AP-6184 | 8/31/93 | 291500 | 304529 | 48.50 | 449.68 | | 429.20 | 17.80 |
| Building 1565/OU-1 | AP-6185 | 8/31/93 | 290974 | 305202 | 19.50 | 444.65 | | 431.20 | 12.29 |
| Building 1565/OU-1 | AP-6186 | 8/28/93 | 291512 | 304335 | 22.50 | 449.03 | | 429.30 | 17.65 |
| Building 1565/OU-1 | AP-6187 | 9/1/93 | 291518 | 304334 | 49.50 | 449.50 | | 429.30 | 17.19 |
| Building 1565/OU-1 | AP-6188 | 8/28/93 | 291713 | 304354 | 22.50 | 447.47 | odors, sheen during drilling | 431.20 | 15.72 |
| Building 1565/OU-1 | AP-6189 | 9/2/93 | 291714 | 304364 | 49.70 | 447.59 | | 431.20 | 15.82 |
| Building 1565/OU-1 | AP-6190 | 10/27/93 | 291710* | 304330* | 97.50 | NA | | | 14.56 |
| Building 1565/OU-1 | AP-6191 | 8/29/93 | 292077 | 304081 | 22.50 | 449.09 | | 429.50 | 17.81 |
| Building 1565/OU-1 | AP-6192 | 9/3/93 | 292085 | 304081 | 49.00 | 449.29 | | 429.50 | 17.60 |
| Building 1565/OU-1 | AP-6193 | 8/30/93 | 291426 | 304659 | 50.50 | 450.25 | | 432.20 | 18.28 |
| Building 1565/OU-1 | AP-6194 | 9/4/93 | 291762 | 304592 | 49.50 | 451.58 | | 430.80 | 18.27 |
| Building 1060/UST | AP-6382 | 7/8/93 | 292237 | 304576 | 22.00 | 446.75 | odors during drilling | 430.90 | 16.10 |
| Building 1060/UST | AP-6383 | 7/9/93 | 292162 | 304576 | 22.00 | 446.84 | odors, sheen, stain during drilling | 430.94 | 16.16 |
| Building 1060/UST | AP-6384 | 7/9/93 | 292201 | 304623 | 22.00 | 446.69 | odors, sheen, stain during drilling | 431.12 | 15.98 |
| Building 1060/UST | AP-6385 | 7/9/93 | 292391 | 304496 | 22.00 | 446.62 | odors during drilling | 430.66 | 16.34 |
| Building 1060/UST | AP-6386 | 7/9/93 | 292284 | 304511 | 22.50 | 450.84 | odors, sheen during drilling | 434.30 | 17.00 |
| Building 1060/UST | AP-6387 | 7/9/93 | 292331 | 304605 | 22.00 | 446.99 | odors during drilling | 430.99 | 16.41 |
| Building 1060/UST | AP-6388 | 7/10/93 | 292056 | 304449 | 22.00 | 445.82 | odors during drilling | 431.36 | 15.41 |
| Building 1060/UST | AP-6389 | 7/10/93 | 292184 | 304360 | 22.00 | 446.13 | odors during drilling | 429.60 | 17.00 |
| Building 1060/UST | AP-6390 | 7/10/93 | 292277 | 304342 | 22.00 | 447.28 | | 432.68 | 15.00 |
| Building 1060/UST | AP-6391 | 7/10/93 | 291941 | 304760 | 22.00 | 446.98 | | 431.00 | 16.30 |
| Building 1060/UST | AP-6392 | 7/15/93 | 292068 | 304860 | 22.00 | 447.47 | | | 16.82 |

# Fort Wainwright Monitoring Well Information Summary

| Site Name/ Operable Unit | Monitoring Well ID | Date Completed | Location | | Total Depth (feet MSL) | Elevation TOC (feet MSL) | Product Thickness or "Comments" | Elevation of Water (feet MSL) | Depth of Water (feet bgs) |
|---|---|---|---|---|---|---|---|---|---|
| | | | Northing | Easting | | | | | |
| Building 1060/UST | AP-6393 | 7/15/93 | 292097 | 304719 | 22.00 | 447.46 | odors, sheen during drilling | | 16.92 |
| Building 1060/UST | AP-6394 | 7/15/93 | 292181 | 304859 | 22.00 | 447.02 | | | 17.47 |

bgs - below ground surface
DBS-Drum Burial Site
DRMO-Defense Reutilization Marketing Office
FEP-Fairbanks - Eielson Pipeline
TOC - Top of Casing
MP-Milepost
MSL - Mean Sea Level
NA - Not Available
NM - Not Measured
OU-Operable Unit
UST-Underground Storage Tank
* Northing and Easting are approximate and locations were digitized from previous consultants report figures. COE survey data was not available.

## Fort Wainwright Analytical Results Summary

**Source: EMCON Alaska, September 1994**
**Final Fort Wainwright Groundwater Summary Report**
**Delivery Order No. 10**
**Contract No. DACA 85-93-D0013**

Note: Only results for wells in the OU 5 area are included (not all of Fort Wainwright).

# Fort Wainwright Analytical Results Summary

| Monitoring Well ID<br>Sample ID<br>Date Sampled | AP-5537<br>90FWGW20WA<br>3/17/90 | AP-5537<br>90FW0223WA<br>7/20/90 | AP-5537<br>W-22<br>8/15/91 | AP-5537<br>91FWGW18WA<br>10/19/91 | AP-5537<br>92FWG023WA<br>4/28/92 |
|---|---|---|---|---|---|
| VOCs (Method 8240/8260/524.2) | (8240) | (8240) | (8240) | (8240) | (8240) |
| 1,1-Dichloroethane | ND | ND | ND | ND | ND |
| 1,1-Dichloroethene | ND | ND | ND | ND | ND |
| 1,1,1-Trichloroethane (TCA) | ND | ND | ND | ND | ND |
| 1,1,2-Trichloroethane | ND | ND | ND | ND | ND |
| 1,2-Dibromomethane | ND | ND | ND | ND | ND |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | ND | ND | ND | ND |
| 1,2-Dichloroethane | ND | ND | ND | ND | ND |
| 1,2-Dichloropropane | ND | ND | ND | ND | ND |
| 1,3-Dichloropropane | ND | ND | ND | ND | ND |
| 1,2,4-Trichlorobenzene | ND | ND | ND | ND | ND |
| 1,2,4-Trimethylbenzene | ND | ND | ND | ND | ND |
| 1,3,5-Trimethylbenzene | ND | ND | ND | ND | ND |
| 1,2-Dichlorobenzene | ND | ND | ND | ND | ND |
| 1,3-Dichlorobenzene | ND | ND | ND | ND | ND |
| 1,4-Dichlorobenzene | ND | ND | ND | ND | ND |
| 2-Butanone (MEK) | ND | ND | ND | ND | NR |
| 4-Isopropyltoluene | ND | ND | ND | ND | ND |
| Acetone | ND | ND | ND | ND | NR |
| Benzene | ND | 13 | 19 | 21 | 12 |
| Bromodichloromethane | ND | ND | ND | ND | ND |
| Carbon Disulfide | ND | ND | ND | ND | NR |
| Carbon tetrachloride | ND | ND | ND | ND | ND |
| Chlorobenzene | ND | ND | ND | ND | ND |
| Chloroethane | ND | ND | ND | ND | ND |
| Chloroform | ND | ND | ND | ND | ND |
| Dibromochloromethane | ND | ND | ND | ND | ND |
| Dichlorodifluoromethane (Freon 12) | ND | ND | ND | ND | ND |
| Ethylbenzene | ND | ND | 11 | 5.9 | 25 |
| Isopropylbenzene | ND | ND | ND | ND | ND |
| Methylene Chloride | 5B | 20 B | ND | 11 B | ND |
| Napthalene | ND | ND | ND | ND | ND |
| Tetrachlorethene (PCE) | ND | ND | ND | ND | ND |
| Tetrahydrofuran | ND | ND | ND | ND | ND |
| Toluene | ND | ND | 3 | ND | 16 |
| Total Xylenes | ND | ND | 26 | 20 | 92 |
| Trichloroethene (TCE) | ND | ND | ND | ND | ND |
| Trichlorofluoromethane (Freon 11) | ND | ND | ND | ND | ND |
| n-Butylbenzene | ND | ND | ND | ND | ND |
| n-Propylbenzene | ND | ND | ND | ND | ND |
| cis-1,2-Dichloroethene | ND | ND | ND | NR | NR |
| trans-1,2-Dichloroethene | ND | ND | ND | ND | ND |
| p-isopropyltoluene | ND | ND | ND | ND | ND |
| sec-Butylbenzene | ND | ND | ND | ND | ND |
| m-Xylene | ND | ND | ND | ND | ND |
| o+p-Xylene | ND | ND | ND | ND | ND |

# Fort Wainwright Analytical Results Summary

| Monitoring Well ID<br>Sample ID<br>Date Sampled | AP-5537<br>90FWGW20WA<br>3/17/90 | AP-5537<br>90FW0223WA<br>7/20/90 | AP-5537<br>W-22<br>8/15/91 | AP-5537<br>91FWGW18WA<br>10/19/91 | AP-5537<br>92FWG023WA<br>4/28/92 |
|---|---|---|---|---|---|
| **VOCs (8020)** | | | | | |
| 1,2-Dichlorobenzene | NA | NA | NA | NA | NA |
| 1,3-Dichlorobenzene | NA | NA | NA | NA | NA |
| 1,4-Dichlorobenzene | NA | NA | NA | NA | NA |
| Benzene | NA | NA | NA | NA | NA |
| Chlorobenzene | NA | NA | NA | NA | NA |
| Ethylbenzene | NA | NA | NA | NA | NA |
| Toluene | NA | NA | NA | NA | NA |
| Xylenes (total) | NA | NA | NA | NA | NA |
| **Semi-VOCs (Method 8270)** | (8270) | | | | |
| Phenol | ND | NA | ND | NA | NA |
| 2 Methylphenol | ND | NA | ND | NA | NA |
| 2,4-Dimethylphenol | ND | NA | ND | NA | NA |
| 2-Methylnaphthalene | ND | NA | ND | NA | NA |
| 3- and 4-Methylphenol | ND | NA | ND | NA | NA |
| 4-Nitrophenol | ND | NA | ND | NA | NA |
| Acenaphthene | ND | NA | ND | NA | NA |
| Acenaphthylene | ND | NA | ND | NA | NA |
| Benzyl Alcohol | ND | NA | ND | NA | NA |
| Benzoic Acid | ND | NA | ND | NA | NA |
| bis-(2-ethylhexyl) phthalate | ND | NA | ND | NA | NA |
| butylbenzlphthalate | ND | NA | ND | NA | NA |
| Di-n-butylphthalate | ND | NA | ND | NA | NA |
| **Di-n-octyl phthalate** | ND | NA | ND | NA | NA |
| Fluorene | ND | NA | ND | NA | NA |
| Napthalene | ND | NA | ND | NA | NA |
| Phenanthrene | ND | NA | ND | NA | NA |
| **FUEL SCAN (Method 8015M)** | | | | | |
| Mineral Spirits | ND | ND | ND | ND | NR |
| JP4 | ND | ND | ND | ND | ND |
| Gasoline | ND | ND | ND | ND | 3500 |
| J. Fuel (A) | ND | 16000 | ND | ND | NR |
| Kerosene | 260 | ND | ND | 1200 | ND |
| Diesel | ND | ND | 3600 | 2000 | 2700 |
| Bunker C (Diesel #6) | ND | ND | ND | ND | ND |
| Other | NR | 3690 | NR | ND | ND |
| | | | | | |
| **EPH-Diesel (Method 8100M)** | NA | NA | NA | NA | NA |
| **TRPH (Method 418.1)** | NA | NA | NA | NA | NA |
| **VPH-Gasoline (Method 8015M)** | NA | NA | NA | NA | NA |
| **PCBs (Method 8080)** | | | | | |
| All Analytes | NA | NA | NA | NA | NA |
| **PAHs (Method 8310)** | | | | | |
| Fluorene | NA | NA | NA | NA | NA |
| Napthalene | NA | NA | NA | NA | NA |
| Acenaphthalene | NA | NA | NA | NA | NA |
| Acenaphthylene | NA | NA | NA | NA | NA |
| Phenanthrene | NA | NA | NA | NA | NA |

# Fort Wainwright Analytical Results Summary

| Monitoring Well ID<br>Sample ID<br>Date Sampled | AP-5537<br>90FWGW20WA<br>3/17/90 | AP-5537<br>90FW0223WA<br>7/20/90 | AP-5537<br>W-22<br>8/15/91 | AP-5537<br>91FWGW18WA<br>10/19/91 | AP-5537<br>92FWG023WA<br>4/28/92 |
|---|---|---|---|---|---|
| **Chlorinated herbicides (Method 8150M)** | | | | | |
| Dicamba | NA | NA | NA | NA | NA |
| **TOTAL METALS** | | | | | |
| Aluminum | ND | NA | ND | ND | NA |
| Arsenic | 12 | NA | 10 | 11 | NA |
| Barium | 230 | NA | 176 | 180 | NA |
| Cadmium | ND | NA | ND | ND | NA |
| Calcium | ND | NA | 83000 | 83000 | NA |
| Chromium | 34 | NA | ND | ND | NA |
| Copper | ND | NA | 10 | ND | NA |
| Iron | ND | NA | 8750 | 8600 | NA |
| Lead | 5.4 | NA | ND | ND | NA |
| Magnesium | ND | NA | 19100 | 18000 | NA |
| Manganese | ND | NA | 2220 | 2200 | NA |
| Mercury | ND | NA | ND | ND | NA |
| Nickel | ND | NA | ND | ND | NA |
| Potassium | ND | NA | 3000 | 4200 | NA |
| Selenium | ND | NA | ND | ND | NA |
| Silver | ND | NA | ND | ND | NA |
| Sodium | ND | NA | 5200 | 5400 | NA |
| Vanadium | ND | NA | ND | ND | NA |
| Zinc | ND | NA | ND | ND | NA |
| **DISSOLVED METALS** | | | | | |
| Arsenic | 8 | 8.7 | NA | NA | NA |
| Antimony | ND | ND | NA | NA | NA |
| Barium | 170 | 280 | NA | NA | NA |
| Cadmium | ND | ND | NA | NA | NA |
| Chromium | ND | ND | NA | NA | NA |
| Copper | ND | ND | NA | NA | NA |
| Iron | ND | ND | NA | NA | NA |
| Lead | ND | 5.5 | NA | NA | NA |
| Manganese | ND | ND | NA | NA | NA |
| Mercury | ND | ND | NA | NA | NA |
| Nickel | ND | ND | NA | NA | NA |
| Selenium | ND | ND | NA | NA | NA |
| Silver | ND | ND | NA | NA | NA |
| Vanadium | ND | ND | NA | NA | NA |
| Zinc | ND | ND | NA | NA | NA |

# Fort Wainwright Analytical Results Summary

| Monitoring Well ID<br>Sample ID<br>Date Sampled | AP-5537<br>92FWG122WA<br>9/26/92 | AP-5537<br>93ROLF942GW<br>10/21/93 | AP-5863<br>93FWAS61WA<br>3/21/93 | AP-5975<br>93FW0505WA<br>7/19/93 | AP-5977<br>93FW0705WA<br>7/22/93 |
|---|---|---|---|---|---|
| VOCs (Method 8240/8260/524.2) | (8260) | (8260) | (8260) | (8260) | (8260) |
| 1,1-Dichloroethane | ND | ND | ND | ND | ND |
| 1,1-Dichloroethene | ND | ND | ND | ND | ND |
| 1,1,1-Trichloroethane (TCA) | ND | ND | ND | ND | ND |
| 1,1,2-Trichloroethane | ND | ND | ND | ND | ND |
| 1,2-Dibromomethane | ND | ND | ND | ND | ND |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | ND | ND | ND | ND |
| 1,2-Dichloroethane | ND | ND | ND | 98 | ND |
| 1,2-Dichloropropane | ND | ND | ND | ND | ND |
| 1,3-Dichloropropane | ND | ND | ND | ND | ND |
| 1,2,4-Trichlorobenzene | ND | ND | ND | ND | ND |
| 1,2,4-Trimethylbenzene | ND | ND | ND | 220 | ND |
| 1,3,5-Trimethylbenzene | ND | ND | ND | 81 | ND |
| 1,2-Dichlorobenzene | ND | ND | ND | ND | ND |
| 1,3-Dichlorobenzene | ND | ND | ND | ND | ND |
| 1,4-Dichlorobenzene | ND | ND | ND | ND | ND |
| 2-Butanone (MEK) | ND | ND | ND | ND | ND |
| 4-Isopropyltoluene | ND | ND | ND | ND | ND |
| Acetone | ND | ND | ND | 37-a | ND |
| Benzene | 1.1 | ND | ND | 2,000-f | ND |
| Bromodichloromethane | ND | ND | ND | ND | ND |
| Carbon Disulfide | ND | ND | 0.5 | ND | ND |
| Carbon tetrachloride | ND | ND | ND | ND | ND |
| Chlorobenzene | ND | ND | ND | ND | ND |
| Chloroethane | ND | ND | ND | ND | ND |
| Chloroform | ND | ND | ND | ND | ND |
| Dibromochloromethane | ND | ND | ND | ND | ND |
| Dichlorodifluoromethane (Freon 12) | ND | ND | ND | ND | ND |
| Ethylbenzene | ND | ND | ND | 280 | ND |
| Isopropylbenzene | ND | ND | ND | 28 | ND |
| Methylene Chloride | 4 B | ND | ND | ND | ND |
| Napthalene | ND | ND | ND | 140 | ND |
| Tetrachlorethene (PCE) | ND | ND | ND | ND | ND |
| Tetrahydrofuran | ND | ND | ND | ND | ND |
| Toluene | ND | ND | ND | 350 | ND |
| Total Xylenes | ND | ND | ND | 960-e | ND |
| Trichloroethene (TCE) | 0.8 | ND | ND | ND | 1.3 |
| Trichlorofluoromethane (Freon 11) | ND | ND | ND | ND | ND |
| n-Butylbenzene | ND | ND | ND | ND | ND |
| n-Propylbenzene | ND | ND | ND | 38 | ND |
| cis-1,2-Dichloroethene | ND | ND | 1.3 | ND | ND |
| trans-1,2-Dichloroethene | ND | ND | 1 | ND | ND |
| p-isopropyltoluene | ND | ND | ND | ND | ND |
| sec-Butylbenzene | ND | ND | ND | ND | ND |
| m-Xylene | ND | ND | ND | ND | ND |
| o+p-Xylene | ND | ND | ND | ND | ND |

# Fort Wainwright Analytical Results Summary

| Monitoring Well ID<br>Sample ID<br>Date Sampled | AP-5537<br>92FWG122WA<br>9/26/92 | AP-5537<br>93ROLF942GW<br>10/21/93 | AP-5863<br>93FWAS61WA<br>3/21/93 | AP-5975<br>93FW0505WA<br>7/19/93 | AP-5977<br>93FW0705WA<br>7/22/93 |
|---|---|---|---|---|---|
| **VOCs (8020)** | | | | | |
| 1,2-Dichlorobenzene | NA | NA | NA | NA | NA |
| 1,3-Dichlorobenzene | NA | NA | NA | NA | NA |
| 1,4-Dichlorobenzene | NA | NA | NA | NA | NA |
| Benzene | NA | NA | NA | NA | NA |
| Chlorobenzene | NA | NA | NA | NA | NA |
| Ethylbenzene | NA | NA | NA | NA | NA |
| Toluene | NA | NA | NA | NA | NA |
| Xylenes (total) | NA | NA | NA | NA | NA |
| **Semi-VOCs (Method 8270)** | | | | | |
| Phenol | ND | ND | NA | ND | ND |
| 2 Methylphenol | ND | ND | NA | ND | ND |
| 2,4-Dimethylphenol | ND | ND | NA | ND | ND |
| 2-Methylnaphthalene | ND | 4-J | NA | 49 | ND |
| 3- and 4-Methylphenol | ND | ND | NA | ND | ND |
| 4-Nitrophenol | ND | ND | NA | ND | ND |
| Acenaphthene | ND | ND | NA | ND | ND |
| Acenaphthylene | ND | ND | NA | ND | ND |
| Benzyl Alcohol | ND | ND | NA | ND | ND |
| Benzoic Acid | ND | ND | NA | ND | ND |
| bis-(2-ethylhexyl) phthalate | ND | ND | NA | ND | ND |
| butylbenzlphthalate | ND | ND | NA | ND | ND |
| Di-n-butylphthalate | ND | ND | NA | ND | ND |
| **Di-n-octyl phthalate** | ND | ND | NA | ND | ND |
| Fluorene | ND | ND | NA | ND | ND |
| Napthalene | ND | 9-J | NA | 120 | ND |
| Phenanthrene | ND | ND | NA | ND | ND |
| **FUEL SCAN (Method 8015M)** | | | | | |
| Mineral Spirits | ND | ND | ND | NA | NA |
| JP4 | ND | ND | NA | NA | NA |
| Gasoline | ND | ND | ND | NA | NA |
| J. Fuel (A) | ND | ND | ND | NA | NA |
| Kerosene | ND | ND | ND | NA | NA |
| Diesel | 1180 | 10,000 | ND | NA | NA |
| Bunker C (Diesel #6) | NR | ND | 100 | NA | NA |
| Other | ND | ND | NR | NA | NA |
| | | | | | |
| **EPH-Diesel (Method 8100M)** | NA | NA | NA | 4,350 | 57 |
| **TRPH (Method 418.1)** | NA | 4,700 | NA | NA | NA |
| **VPH-Gasoline (Method 8015M)** | NA | NA | NA | 9,350 | ND |
| **PCBs (Method 8080)** | | | | | |
| All Analytes | NA | NA | NA | ND | NA |
| **PAHs (Method 8310)** | | | | | |
| Fluorene | NA | NA | NA | <1.2-c | ND |
| Napthalene | NA | NA | NA | 110-g | ND |
| Acenaphthalene | NA | NA | NA | <3-c | ND |
| Acenaphthylene | NA | NA | NA | <20-C | ND |
| Phenanthrene | NA | NA | NA | 0.2 | ND |

# Fort Wainwright Analytical Results Summary

| Monitoring Well ID<br>Sample ID<br>Date Sampled | AP-5537<br>92FWG122WA<br>9/26/92 | AP-5537<br>93ROLF942GW<br>10/21/93 | AP-5863<br>93FWAS61WA<br>3/21/93 | AP-5975<br>93FW0505WA<br>7/19/93 | AP-5977<br>93FW0705WA<br>7/22/93 |
|---|---|---|---|---|---|
| **Chlorinated herbicides (Method 8150M)** | | | | | |
| Dicamba | NA | NA | NA | NA | NA |
| **TOTAL METALS** | | | | | |
| Aluminum | 2480 | ND | NA | NA | ND |
| Arsenic | 13 | 18 | ND | NA | 8 |
| Barium | 210 | ND | 210 | NA | 212 |
| Cadmium | ND | ND | ND | NA | ND |
| Calcium | ND | ND | NA | NA | ND |
| Chromium | ND | 8.8 | ND | NA | ND |
| Copper | 14 | 41 | NA | NA | ND |
| Iron | 12600 | ND | NA | NA | ND |
| Lead | 5 | 16 | 5 | NA | ND |
| Magnesium | 18500 | ND | NA | NA | ND |
| Manganese | ND | ND | NA | NA | ND |
| Mercury | ND | ND | ND | NA | ND |
| Nickel | ND | 15 | NA | NA | ND |
| Potassium | 4700 | ND | NA | NA | ND |
| Selenium | ND | ND | ND | NA | ND |
| Silver | ND | ND | ND | NA | ND |
| Sodium | 5200 | ND | NA | NA | ND |
| Vanadium | 10 | ND | NA | NA | ND |
| Zinc | 26 | 84 | NA | NA | ND |
| **DISSOLVED METALS** | | | | | |
| Arsenic | 9 | 14 | NA | NA | NA |
| Antimony | ND | ND | NA | NA | NA |
| Barium | 173 | ND | NA | NA | NA |
| Cadmium | ND | ND | NA | NA | NA |
| Chromium | ND | ND | NA | NA | NA |
| Copper | ND | ND | NA | NA | NA |
| Iron | 8180 | 12,200 | NA | NA | NA |
| Lead | ND | ND | NA | NA | NA |
| Manganese | ND | 2,300 | NA | NA | NA |
| Mercury | ND | ND | NA | NA | NA |
| Nickel | ND | ND | NA | NA | NA |
| Selenium | ND | ND | NA | NA | NA |
| Silver | ND | ND | NA | NA | NA |
| Vanadium | ND | ND | NA | NA | NA |
| Zinc | ND | ND | NA | NA | NA |

# Fort Wainwright Analytical Results Summary

| Monitoring Well ID<br>Sample ID<br>Date Sampled | AP-5981<br>93FW0805WA<br>7/21/93 | AP-5982<br>93FW0905WA<br>7/21/93 | AP-6011<br>93ROLF912GW<br>10/17/93 | AP-6012<br>93ROLF904GW<br>10/12/93 | AP-6016<br>93ROLF926GW<br>10/19/93 |
|---|---|---|---|---|---|
| VOCs (Method 8240/8260/524.2) | (8260) | (8260) | (8260) | (8260) | (8260) |
| 1,1-Dichloroethane | ND | ND | ND | ND | ND |
| 1,1-Dichloroethene | ND | ND | ND | ND | ND |
| 1,1,1-Trichloroethane (TCA) | ND | ND | ND | ND | ND |
| 1,1,2-Trichloroethane | ND | ND | ND | ND | ND |
| 1,2-Dibromomethane | ND | ND | ND | ND | ND |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | ND | ND | ND | ND |
| 1,2-Dichloroethane | ND | ND | ND | ND | ND |
| 1,2-Dichloropropane | ND | ND | ND | ND | ND |
| 1,3-Dichloropropane | ND | ND | ND | ND | ND |
| 1,2,4-Trichlorobenzene | ND | ND | ND | ND | ND |
| 1,2,4-Trimethylbenzene | ND | ND | ND | ND | 250 |
| 1,3,5-Trimethylbenzene | ND | ND | ND | ND | 530 |
| 1,2-Dichlorobenzene | ND | ND | ND | ND | ND |
| 1,3-Dichlorobenzene | ND | ND | ND | ND | ND |
| 1,4-Dichlorobenzene | ND | ND | ND | ND | ND |
| 2-Butanone (MEK) | ND | ND | ND | ND | ND |
| 4-Isopropyltoluene | ND | ND | ND | ND | ND |
| Acetone | ND | 3-A | ND | ND | ND |
| Benzene | ND | ND | ND | ND | 140 |
| Bromodichloromethane | ND | ND | ND | ND | ND |
| Carbon Disulfide | ND | ND | ND | ND | ND |
| Carbon tetrachloride | ND | ND | ND | ND | ND |
| Chlorobenzene | ND | ND | ND | ND | ND |
| Chloroethane | ND | ND | ND | ND | ND |
| Chloroform | ND | ND | ND | ND | ND |
| Dibromochloromethane | ND | ND | ND | ND | ND |
| Dichlorodifluoromethane (Freon 12) | ND | ND | ND | ND | ND |
| Ethylbenzene | ND | ND | ND | ND | 240 |
| Isopropylbenzene | ND | ND | ND | ND | ND |
| Methylene Chloride | ND | ND | ND | ND | ND |
| Napthalene | ND | ND | ND | ND | 420 |
| Tetrachlorethene (PCE) | ND | ND | ND | ND | ND |
| Tetrahydrofuran | ND | ND | ND | ND | ND |
| Toluene | ND | ND | ND | ND | 140 |
| Total Xylenes | ND | ND | ND | ND | ND |
| Trichloroethene (TCE) | ND | ND | ND | ND | ND |
| Trichlorofluoromethane (Freon 11) | ND | ND | ND | ND | ND |
| n-Butylbenzene | ND | ND | ND | ND | ND |
| n-Propylbenzene | ND | ND | ND | ND | ND |
| cis-1,2-Dichloroethene | ND | ND | ND | ND | ND |
| trans-1,2-Dichloroethene | ND | ND | ND | ND | ND |
| p-isopropyltoluene | ND | ND | ND | ND | ND |
| sec-Butylbenzene | ND | ND | ND | ND | ND |
| m-Xylene | ND | ND | ND | ND | 500 |
| o+p-Xylene | ND | ND | ND | ND | ND |

# Fort Wainwright Analytical Results Summary

| Monitoring Well ID<br>Sample ID<br>Date Sampled | AP-5981<br>93FW0805WA<br>7/21/93 | AP-5982<br>93FW0905WA<br>7/21/93 | AP-6011<br>93ROLF912GW<br>10/17/93 | AP-6012<br>93ROLF904GW<br>10/12/93 | AP-6016<br>93ROLF926GW<br>10/19/93 |
|---|---|---|---|---|---|
| **VOCs (8020)** | | | | | |
| 1,2-Dichlorobenzene | NA | NA | NA | NA | NA |
| 1,3-Dichlorobenzene | NA | NA | NA | NA | NA |
| 1,4-Dichlorobenzene | NA | NA | NA | NA | NA |
| Benzene | NA | NA | NA | NA | NA |
| Chlorobenzene | NA | NA | NA | NA | NA |
| Ethylbenzene | NA | NA | NA | NA | NA |
| Toluene | NA | NA | NA | NA | NA |
| Xylenes (total) | NA | NA | NA | NA | NA |
| **Semi-VOCs (Method 8270)** | | | | | |
| Phenol | ND | ND | ND | ND | ND |
| 2 Methylphenol | ND | ND | ND | ND | ND |
| 2,4-Dimethylphenol | ND | ND | ND | ND | ND |
| 2-Methylnaphthalene | ND | ND | R | ND | R |
| 3- and 4-Methylphenol | ND | ND | ND | ND | ND |
| 4-Nitrophenol | ND | ND | ND | ND | ND |
| Acenaphthene | ND | ND | R | ND | R |
| Acenaphthylene | ND | ND | R | ND | R |
| Benzyl Alcohol | ND | ND | ND | ND | ND |
| Benzoic Acid | ND | ND | ND | ND | ND |
| bis-(2-ethylhexyl) phthalate | ND | ND | R | ND | R |
| butylbenzlphthalate | ND | ND | R | ND | R |
| Di-n-butylphthalate | ND | ND | R | ND | R |
| **Di-n-octyl phthalate** | ND | ND | ND | ND | ND |
| Fluorene | ND | ND | R | ND | R |
| Napthalene | ND | ND | R | ND | R |
| Phenanthrene | ND | ND | R | ND | R |
| **FUEL SCAN (Method 8015M)** | | | | | |
| Mineral Spirits | NA | NA | ND | ND | ND |
| JP4 | NA | NA | ND | ND | ND |
| Gasoline | NA | NA | ND | ND | 6100-J |
| J. Fuel (A) | NA | NA | ND | ND | ND |
| Kerosene | NA | NA | ND | ND | ND |
| Diesel | NA | NA | ND | ND | ND |
| Bunker C (Diesel #6) | NA | NA | ND | ND | ND |
| Other | NA | NA | ND | ND | ND |
| | | | | | |
| **EPH-Diesel (Method 8100M)** | 237 | 81 | NA | NA | NA |
| **TRPH (Method 418.1)** | NA | NA | ND | 260-J | 7,300 |
| **VPH-Gasoline (Method 8015M)** | ND | ND | NA | NA | NA |
| **PCBs (Method 8080)** | | | | | |
| All Analytes | ND | NA | NA | NA | NA |
| **PAHs (Method 8310)** | | | | | |
| Fluorene | ND | ND | NA | NA | NA |
| Napthalene | ND | ND | NA | NA | NA |
| Acenaphthalene | ND | ND | NA | NA | NA |
| Acenaphthylene | ND | ND | NA | NA | NA |
| Phenanthrene | ND | ND | NA | NA | NA |

# Fort Wainwright Analytical Results Summary

| Monitoring Well ID<br>Sample ID<br>Date Sampled | AP-5981<br>93FW0805WA<br>7/21/93 | AP-5982<br>93FW0905WA<br>7/21/93 | AP-6011<br>93ROLF912GW<br>10/17/93 | AP-6012<br>93ROLF904GW<br>10/12/93 | AP-6016<br>93ROLF926GW<br>10/19/93 |
|---|---|---|---|---|---|
| **Chlorinated herbicides (Method 8150M)** | | | | | |
| Dicamba | NA | ND | NA | NA | NA |
| **TOTAL METALS** | | | | | |
| Aluminum | ND | ND | ND | ND | ND |
| Arsenic | ND | ND | 29 | 7.2 | 37 |
| Barium | 184 | ND | ND | ND | ND |
| Cadmium | ND | ND | 7 | ND | ND |
| Calcium | ND | ND | ND | ND | ND |
| Chromium | ND | ND | 280 | 50 | 19 |
| Copper | ND | ND | 630 | 66 | 27 |
| Iron | ND | ND | ND | ND | ND |
| Lead | ND | ND | 260 | 1.9 | 6.4 |
| Magnesium | ND | ND | ND | ND | ND |
| Manganese | ND | ND | ND | ND | ND |
| Mercury | ND | ND | 0.64 | ND | 0.44 |
| Nickel | ND | ND | 380 | 43 | 18 |
| Potassium | ND | ND | ND | ND | ND |
| Selenium | ND | ND | ND | ND | ND |
| Silver | ND | ND | ND | ND | ND |
| Sodium | ND | ND | ND | ND | ND |
| Vanadium | ND | ND | ND | ND | ND |
| Zinc | ND | ND | 730 | 60 | 36 |
| **DISSOLVED METALS** | | | | | |
| Arsenic | NA | NA | 5.2 | ND | 35 |
| Antimony | NA | NA | ND | ND | ND |
| Barium | NA | NA | ND | ND | ND |
| Cadmium | NA | NA | ND | ND | ND |
| Chromium | NA | NA | ND | ND | ND |
| Copper | NA | NA | ND | ND | ND |
| Iron | NA | NA | 3,700 | ND | 71,700 |
| Lead | NA | NA | ND | ND | ND |
| Manganese | NA | NA | 1,600 | 590 | 5,400 |
| Mercury | NA | NA | ND | ND | ND |
| Nickel | NA | NA | ND | 16 | ND |
| Selenium | NA | NA | ND | ND | ND |
| Silver | NA | NA | ND | ND | ND |
| Vanadium | NA | NA | ND | ND | ND |
| Zinc | NA | NA | ND | ND | 24 |

# Fort Wainwright Analytical Results Summary

| Monitoring Well ID<br>Sample ID<br>Date Sampled | AP-6017<br>93ROLF929GW<br>10/19/93 | AP-6181<br>93FW156508WA<br>8/30/93 | AP-6182<br>93FW156509WA<br>8/30/93 | AP-6183<br>93FW156519WA<br>8/31/93 |
|---|---|---|---|---|
| VOCs (Method 8240/8260/524.2) | (8260) | (8260) | (8260) | (8260) |
| 1,1-Dichloroethane | ND | ND | ND | 39 |
| 1,1-Dichloroethene | ND | ND | ND | 3 |
| 1,1,1-Trichloroethane (TCA) | ND | ND | 24 | 650-DD |
| 1,1,2-Trichloroethane | ND | ND | ND | ND |
| 1,2-Dibromomethane | ND | ND | ND | ND |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | ND | ND | ND |
| 1,2-Dichloroethane | ND | ND | ND | ND |
| 1,2-Dichloropropane | ND | ND | ND | ND |
| 1,3-Dichloropropane | ND | ND | ND | ND |
| 1,2,4-Trichlorobenzene | ND | ND | ND | ND |
| 1,2,4-Trimethylbenzene | ND | 51-FB | ND | ND |
| 1,3,5-Trimethylbenzene | ND | 35 | ND | ND |
| 1,2-Dichlorobenzene | ND | ND | ND | ND |
| 1,3-Dichlorobenzene | ND | ND | ND | ND |
| 1,4-Dichlorobenzene | ND | ND | ND | ND |
| 2-Butanone (MEK) | ND | ND | ND | ND |
| 4-Isopropyltoluene | ND | ND | ND | ND |
| Acetone | ND | ND | ND | ND |
| Benzene | ND | 2.3 | ND | 2.4 |
| Bromodichloromethane | ND | ND | ND | ND |
| Carbon Disulfide | ND | ND | ND | ND |
| Carbon tetrachloride | ND | ND | ND | ND |
| Chlorobenzene | ND | ND | ND | ND |
| Chloroethane | ND | ND | ND | ND |
| Chloroform | ND | ND | ND | ND |
| Dibromochloromethane | ND | ND | ND | ND |
| Dichlorodifluoromethane (Freon 12) | ND | ND | ND | ND |
| Ethylbenzene | ND | 82-FB | ND | ND |
| Isopropylbenzene | ND | 22 | ND | 1.7 |
| Methylene Chloride | ND | ND | ND | ND |
| Napthalene | ND | ND | ND | ND |
| Tetrachlorethene (PCE) | ND | ND | ND | ND |
| Tetrahydrofuran | ND | ND | ND | ND |
| Toluene | 5 | 2.6 | ND | ND |
| Total Xylenes | ND | ND | ND | ND |
| Trichloroethene (TCE) | ND | ND | 1.7 | 1.3 |
| Trichlorofluoromethane (Freon 11) | ND | ND | ND | ND |
| n-Butylbenzene | ND | ND | ND | ND |
| n-Propylbenzene | ND | 9.3 | ND | ND |
| cis-1,2-Dichloroethene | ND | ND | 2.4 | ND |
| trans-1,2-Dichloroethene | ND | ND | 2.2 | ND |
| p-isopropyltoluene | ND | 2.4 | ND | ND |
| sec-Butylbenzene | ND | 2.0 | ND | ND |
| m-Xylene | 5 | 260-FB | ND | ND |
| o+p-Xylene | ND | 31.0 | ND | ND |

# Fort Wainwright Analytical Results Summary

| Monitoring Well ID<br>Sample ID<br>Date Sampled | AP-6017<br>93ROLF929GW<br>10/19/93 | AP-6181<br>93FW156508WA<br>8/30/93 | AP-6182<br>93FW156509WA<br>8/30/93 | AP-6183<br>93FW156519WA<br>8/31/93 |
|---|---|---|---|---|
| **VOCs (8020)** | | | | |
| 1,2-Dichlorobenzene | NA | NA | NA | NA |
| 1,3-Dichlorobenzene | NA | NA | NA | NA |
| 1,4-Dichlorobenzene | NA | NA | NA | NA |
| Benzene | NA | NA | NA | NA |
| Chlorobenzene | NA | NA | NA | NA |
| Ethylbenzene | NA | NA | NA | NA |
| Toluene | NA | NA | NA | NA |
| Xylenes (total) | NA | NA | NA | NA |
| **Semi-VOCs (Method 8270)** | | | | |
| Phenol | ND | NA | NA | NA |
| 2 Methylphenol | ND | NA | NA | NA |
| 2,4-Dimethylphenol | ND | NA | NA | NA |
| 2-Methylnaphthalene | R | NA | NA | NA |
| 3- and 4-Methylphenol | ND | NA | NA | NA |
| 4-Nitrophenol | ND | NA | NA | NA |
| Acenaphthene | R | NA | NA | NA |
| Acenaphthylene | R | NA | NA | NA |
| Benzyl Alcohol | ND | NA | NA | NA |
| Benzoic Acid | ND | NA | NA | NA |
| bis-(2-ethylhexyl) phthalate | R | NA | NA | NA |
| butylbenzlphthalate | R | NA | NA | NA |
| Di-n-butylphthalate | R | NA | NA | NA |
| **Di-n-octyl phthalate** | ND | NA | NA | NA |
| Fluorene | R | NA | NA | NA |
| Napthalene | R | NA | NA | NA |
| Phenanthrene | R | NA | NA | NA |
| **FUEL SCAN (Method 8015M)** | | | | |
| Mineral Spirits | ND | NA | NA | NA |
| JP4 | ND | NA | NA | NA |
| Gasoline | ND | NA | NA | NA |
| J. Fuel (A) | ND | NA | NA | NA |
| Kerosene | ND | NA | NA | NA |
| Diesel | ND | NA | NA | NA |
| Bunker C (Diesel #6) | ND | NA | NA | NA |
| Other | ND | NA | NA | NA |
| | | | | |
| **EPH-Diesel (Method 8100M)** | NA | NA | NA | NA |
| **TRPH (Method 418.1)** | ND | NA | NA | NA |
| **VPH-Gasoline (Method 8015M)** | NA | NA | NA | NA |
| **PCBs (Method 8080)** | | | | |
| All Analytes | NA | NA | NA | NA |
| **PAHs (Method 8310)** | | | | |
| Fluorene | NA | NA | NA | NA |
| Napthalene | NA | NA | NA | NA |
| Acenaphthalene | NA | NA | NA | NA |
| Acenaphthylene | NA | NA | NA | NA |
| Phenanthrene | NA | NA | NA | NA |

# Fort Wainwright Analytical Results Summary

| Monitoring Well ID<br>Sample ID<br>Date Sampled | AP-6017<br>93ROLF929GW<br>10/19/93 | AP-6181<br>93FW156508WA<br>8/30/93 | AP-6182<br>93FW156509WA<br>8/30/93 | AP-6183<br>93FW156519WA<br>8/31/93 |
|---|---|---|---|---|
| **Chlorinated herbicides (Method 8150M)** | | | | |
| Dicamba | NA | NA | NA | NA |
| **TOTAL METALS** | | | | |
| Aluminum | ND | NA | NA | NA |
| Arsenic | 2.9 | NA | NA | NA |
| Barium | ND | NA | NA | NA |
| Cadmium | ND | NA | NA | NA |
| Calcium | ND | NA | NA | NA |
| Chromium | ND | NA | NA | NA |
| Copper | 54 | NA | NA | NA |
| Iron | ND | NA | NA | NA |
| Lead | 7.6 | NA | NA | NA |
| Magnesium | ND | NA | NA | NA |
| Manganese | ND | NA | NA | NA |
| Mercury | 3.4 | NA | NA | NA |
| Nickel | ND | NA | NA | NA |
| Potassium | ND | NA | NA | NA |
| Selenium | ND | NA | NA | NA |
| Silver | ND | NA | NA | NA |
| Sodium | ND | NA | NA | NA |
| Vanadium | ND | NA | NA | NA |
| Zinc | 48 | NA | NA | NA |
| **DISSOLVED METALS** | | | | |
| Arsenic | ND | NA | NA | NA |
| Antimony | ND | NA | NA | NA |
| Barium | ND | NA | NA | NA |
| Cadmium | ND | NA | NA | NA |
| Chromium | ND | NA | NA | NA |
| Copper | ND | NA | NA | NA |
| Iron | 3,300 | NA | NA | NA |
| Lead | ND | NA | NA | NA |
| Manganese | 970 | NA | NA | NA |
| Mercury | ND | NA | NA | NA |
| Nickel | ND | NA | NA | NA |
| Selenium | ND | NA | NA | NA |
| Silver | ND | NA | NA | NA |
| Vanadium | ND | NA | NA | NA |
| Zinc | ND | NA | NA | NA |

# Fort Wainwright Analytical Results Summary

| Monitoring Well ID<br>Sample ID<br>Date Sampled | AP-6184<br>93FW156525WA<br>9/3/93 | AP-6185<br>93FW156506WA<br>8/30/93 | AP-6186<br>93FW156515WA<br>8/31/93 | AP-6187<br>93FW156528WA<br>9/3/93 |
|---|---|---|---|---|
| VOCs (Method 8240/8260/524.2) | (8260) | (8260) | (8260) | (8260) |
| 1,1-Dichloroethane | ND | ND | ND | ND |
| 1,1-Dichloroethene | ND | ND | ND | ND |
| 1,1,1-Trichloroethane (TCA) | 1.9 | ND | 1.2 | ND |
| 1,1,2-Trichloroethane | ND | ND | ND | ND |
| 1,2-Dibromomethane | ND | ND | ND | ND |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | ND | ND | ND |
| 1,2-Dichloroethane | ND | ND | ND | ND |
| 1,2-Dichloropropane | ND | ND | ND | ND |
| 1,3-Dichloropropane | ND | ND | ND | ND |
| 1,2,4-Trichlorobenzene | ND | ND | ND | ND |
| 1,2,4-Trimethylbenzene | ND | ND | ND | ND |
| 1,3,5-Trimethylbenzene | ND | ND | ND | ND |
| 1,2-Dichlorobenzene | ND | ND | ND | ND |
| 1,3-Dichlorobenzene | ND | ND | ND | ND |
| 1,4-Dichlorobenzene | ND | ND | ND | ND |
| 2-Butanone (MEK) | ND | ND | ND | ND |
| 4-Isopropyltoluene | ND | ND | ND | ND |
| Acetone | ND | ND | ND | ND |
| Benzene | ND | ND | ND | ND |
| Bromodichloromethane | ND | ND | ND | ND |
| Carbon Disulfide | ND | 0.8 | ND | ND |
| Carbon tetrachloride | ND | ND | ND | ND |
| Chlorobenzene | ND | ND | ND | ND |
| Chloroethane | ND | ND | ND | ND |
| Chloroform | 3 | ND | ND | 5.4 |
| Dibromochloromethane | ND | ND | ND | ND |
| Dichlorodifluoromethane (Freon 12) | ND | ND | ND | ND |
| Ethylbenzene | ND | ND | ND | ND |
| Isopropylbenzene | ND | ND | ND | ND |
| Methylene Chloride | ND | ND | ND | ND |
| Napthalene | ND | ND | ND | ND |
| Tetrachlorethene (PCE) | ND | ND | ND | ND |
| Tetrahydrofuran | ND | ND | ND | ND |
| Toluene | ND | ND | ND | ND |
| Total Xylenes | ND | ND | ND | ND |
| Trichloroethene (TCE) | ND | ND | ND | ND |
| Trichlorofluoromethane (Freon 11) | ND | ND | ND | ND |
| n-Butylbenzene | ND | ND | ND | ND |
| n-Propylbenzene | ND | ND | ND | ND |
| cis-1,2-Dichloroethene | ND | ND | 1.8 | ND |
| trans-1,2-Dichloroethene | ND | ND | 1.6 | ND |
| p-isopropyltoluene | ND | ND | ND | ND |
| sec-Butylbenzene | ND | ND | ND | ND |
| m-Xylene | ND | ND | ND | ND |
| o+p-Xylene | ND | ND | ND | ND |

# Fort Wainwright Analytical Results Summary

| Monitoring Well ID<br>Sample ID<br>Date Sampled | AP-6184<br>93FW156525WA<br>9/3/93 | AP-6185<br>93FW156506WA<br>8/30/93 | AP-6186<br>93FW156515WA<br>8/31/93 | AP-6187<br>93FW156528WA<br>9/3/93 |
|---|---|---|---|---|
| **VOCs (8020)** | | | | |
| 1,2-Dichlorobenzene | NA | NA | NA | NA |
| 1,3-Dichlorobenzene | NA | NA | NA | NA |
| 1,4-Dichlorobenzene | NA | NA | NA | NA |
| Benzene | NA | NA | NA | NA |
| Chlorobenzene | NA | NA | NA | NA |
| Ethylbenzene | NA | NA | NA | NA |
| Toluene | NA | NA | NA | NA |
| Xylenes (total) | NA | NA | NA | NA |
| **Semi-VOCs (Method 8270)** | | | | |
| Phenol | NA | NA | NA | NA |
| 2 Methylphenol | NA | NA | NA | NA |
| 2,4-Dimethylphenol | NA | NA | NA | NA |
| 2-Methylnaphthalene | NA | NA | NA | NA |
| 3- and 4-Methylphenol | NA | NA | NA | NA |
| 4-Nitrophenol | NA | NA | NA | NA |
| Acenaphthene | NA | NA | NA | NA |
| Acenaphthylene | NA | NA | NA | NA |
| Benzyl Alcohol | NA | NA | NA | NA |
| Benzoic Acid | NA | NA | NA | NA |
| bis-(2-ethylhexyl) phthalate | NA | NA | NA | NA |
| butylbenzlphthalate | NA | NA | NA | NA |
| Di-n-butylphthalate | NA | NA | NA | NA |
| **Di-n-octyl phthalate** | NA | NA | NA | NA |
| Fluorene | NA | NA | NA | NA |
| Napthalene | NA | NA | NA | NA |
| Phenanthrene | NA | NA | NA | NA |
| **FUEL SCAN (Method 8015M)** | | | | |
| Mineral Spirits | NA | NA | NA | NA |
| JP4 | NA | NA | NA | NA |
| Gasoline | NA | NA | NA | NA |
| J. Fuel (A) | NA | NA | NA | NA |
| Kerosene | NA | NA | NA | NA |
| Diesel | NA | NA | NA | NA |
| Bunker C (Diesel #6) | NA | NA | NA | NA |
| Other | NA | NA | NA | NA |
| | | | | |
| **EPH-Diesel (Method 8100M)** | NA | NA | NA | NA |
| **TRPH (Method 418.1)** | NA | NA | NA | NA |
| **VPH-Gasoline (Method 8015M)** | NA | NA | NA | NA |
| **PCBs (Method 8080)** | | | | |
| All Analytes | NA | NA | NA | NA |
| **PAHs (Method 8310)** | | | | |
| Fluorene | NA | NA | NA | NA |
| Napthalene | NA | NA | NA | NA |
| Acenaphthalene | NA | NA | NA | NA |
| Acenaphthylene | NA | NA | NA | NA |
| Phenanthrene | NA | NA | NA | NA |

# Fort Wainwright Analytical Results Summary

| Monitoring Well ID<br>Sample ID<br>Date Sampled | AP-6184<br>93FW156525WA<br>9/3/93 | AP-6185<br>93FW156506WA<br>8/30/93 | AP-6186<br>93FW156515WA<br>8/31/93 | AP-6187<br>93FW156528WA<br>9/3/93 |
|---|---|---|---|---|
| Chlorinated herbicides (Method 8150M) | | | | |
| Dicamba | NA | NA | NA | NA |
| TOTAL METALS | | | | |
| Aluminum | NA | NA | NA | NA |
| Arsenic | NA | NA | NA | NA |
| Barium | NA | NA | NA | NA |
| Cadmium | NA | NA | NA | NA |
| Calcium | NA | NA | NA | NA |
| Chromium | NA | NA | NA | NA |
| Copper | NA | NA | NA | NA |
| Iron | NA | NA | NA | NA |
| Lead | NA | NA | NA | NA |
| Magnesium | NA | NA | NA | NA |
| Manganese | NA | NA | NA | NA |
| Mercury | NA | NA | NA | NA |
| Nickel | NA | NA | NA | NA |
| Potassium | NA | NA | NA | NA |
| Selenium | NA | NA | NA | NA |
| Silver | NA | NA | NA | NA |
| Sodium | NA | NA | NA | NA |
| Vanadium | NA | NA | NA | NA |
| Zinc | NA | NA | NA | NA |
| DISSOLVED METALS | | | | |
| Arsenic | NA | NA | NA | NA |
| Antimony | NA | NA | NA | NA |
| Barium | NA | NA | NA | NA |
| Cadmium | NA | NA | NA | NA |
| Chromium | NA | NA | NA | NA |
| Copper | NA | NA | NA | NA |
| Iron | NA | NA | NA | NA |
| Lead | NA | NA | NA | NA |
| Manganese | NA | NA | NA | NA |
| Mercury | NA | NA | NA | NA |
| Nickel | NA | NA | NA | NA |
| Selenium | NA | NA | NA | NA |
| Silver | NA | NA | NA | NA |
| Vanadium | NA | NA | NA | NA |
| Zinc | NA | NA | NA | NA |

# Fort Wainwright Analytical Results Summary

| Monitoring Well ID<br>Sample ID<br>Date Sampled | AP-6188<br>93FW156510WA<br>8/31/93 | AP-6189<br>93FW156529WA<br>9/4/93 | AP-6190<br>93FW1565100WA<br>10/29/93 | AP-6191<br>93FW156518WA<br>8/31/93 |
|---|---|---|---|---|
| VOCs (Method 8240/8260/524.2) | (8260) | (8260) | (8260) | (8260) |
| 1,1-Dichloroethane | 13 | ND | ND | ND |
| 1,1-Dichloroethene | ND | ND | ND | ND |
| 1,1,1-Trichloroethane (TCA) | 21 | 1.2 | ND | ND |
| 1,1,2-Trichloroethane | ND | ND | ND | ND |
| 1,2-Dibromomethane | ND | ND | ND | ND |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | ND | ND | ND |
| 1,2-Dichloroethane | ND | ND | ND | ND |
| 1,2-Dichloropropane | ND | ND | ND | ND |
| 1,3-Dichloropropane | ND | ND | ND | ND |
| 1,2,4-Trichlorobenzene | ND | ND | ND | ND |
| 1,2,4-Trimethylbenzene | 260-FE | 1.4 | ND | ND |
| 1,3,5-Trimethylbenzene | 150 | ND | ND | ND |
| 1,2-Dichlorobenzene | ND | ND | ND | ND |
| 1,3-Dichlorobenzene | ND | ND | ND | ND |
| 1,4-Dichlorobenzene | ND | ND | ND | ND |
| 2-Butanone (MEK) | ND | ND | ND | ND |
| 4-Isopropyltoluene | ND | ND | ND | ND |
| Acetone | ND | ND | ND | ND |
| Benzene | 24 | ND | ND | ND |
| Bromodichloromethane | ND | ND | ND | ND |
| Carbon Disulfide | ND | ND | ND | ND |
| Carbon tetrachloride | ND | ND | ND | ND |
| Chlorobenzene | ND | ND | ND | ND |
| Chloroethane | ND | ND | ND | ND |
| Chloroform | ND | ND | ND | ND |
| Dibromochloromethane | ND | ND | ND | ND |
| Dichlorodifluoromethane (Freon 12) | ND | ND | ND | ND |
| Ethylbenzene | 130-FE | ND | ND | ND |
| Isopropylbenzene | 98 | ND | ND | ND |
| Methylene Chloride | ND | ND | ND | ND |
| Napthalene | 40 | ND | ND | ND |
| Tetrachlorethene (PCE) | ND | ND | ND | ND |
| Tetrahydrofuran | ND | ND | ND | ND |
| Toluene | 47 | ND | ND | ND |
| Total Xylenes | ND | ND | ND | ND |
| Trichloroethene (TCE) | ND | ND | ND | ND |
| Trichlorofluoromethane (Freon 11) | ND | ND | ND | ND |
| n-Butylbenzene | ND | ND | ND | ND |
| n-Propylbenzene | 54 | ND | ND | ND |
| cis-1,2-Dichloroethene | ND | ND | ND | ND |
| trans-1,2-Dichloroethene | ND | ND | ND | ND |
| p-isopropyltoluene | ND | ND | ND | ND |
| sec-Butylbenzene | 7.8 | ND | ND | ND |
| m-Xylene | 620-FE | ND | ND | ND |
| o+p-Xylene | 58 | 1 | ND | ND |

# Fort Wainwright Analytical Results Summary

| Monitoring Well ID<br>Sample ID<br>Date Sampled | AP-6188<br>93FW156510WA<br>8/31/93 | AP-6189<br>93FW156529WA<br>9/4/93 | AP-6190<br>93FW1565100WA<br>10/29/93 | AP-6191<br>93FW156518WA<br>8/31/93 |
|---|---|---|---|---|
| VOCs (8020) | | | | |
| 1,2-Dichlorobenzene | NA | NA | NA | NA |
| 1,3-Dichlorobenzene | NA | NA | NA | NA |
| 1,4-Dichlorobenzene | NA | NA | NA | NA |
| Benzene | NA | NA | NA | NA |
| Chlorobenzene | NA | NA | NA | NA |
| Ethylbenzene | NA | NA | NA | NA |
| Toluene | NA | NA | NA | NA |
| Xylenes (total) | NA | NA | NA | NA |
| Semi-VOCs (Method 8270) | | | | |
| Phenol | NA | NA | NA | NA |
| 2 Methylphenol | NA | NA | NA | NA |
| 2,4-Dimethylphenol | NA | NA | NA | NA |
| 2-Methylnaphthalene | NA | NA | NA | NA |
| 3- and 4-Methylphenol | NA | NA | NA | NA |
| 4-Nitrophenol | NA | NA | NA | NA |
| Acenaphthene | NA | NA | NA | NA |
| Acenaphthylene | NA | NA | NA | NA |
| Benzyl Alcohol | NA | NA | NA | NA |
| Benzoic Acid | NA | NA | NA | NA |
| bis-(2-ethylhexyl) phthalate | NA | NA | NA | NA |
| butylbenzlphthalate | NA | NA | NA | NA |
| Di-n-butylphthalate | NA | NA | NA | NA |
| **Di-n-octyl phthalate** | NA | NA | NA | NA |
| Fluorene | NA | NA | NA | NA |
| Napthalene | NA | NA | NA | NA |
| Phenanthrene | NA | NA | NA | NA |
| FUEL SCAN (Method 8015M) | | | | |
| Mineral Spirits | NA | NA | NA | NA |
| JP4 | NA | NA | NA | NA |
| Gasoline | NA | NA | NA | NA |
| J. Fuel (A) | NA | NA | NA | NA |
| Kerosene | NA | NA | NA | NA |
| Diesel | NA | NA | NA | NA |
| Bunker C (Diesel #6) | NA | NA | NA | NA |
| Other | NA | NA | NA | NA |
| | | | | |
| **EPH-Diesel (Method 8100M)** | NA | NA | NA | NA |
| **TRPH (Method 418.1)** | NA | NA | NA | NA |
| **VPH-Gasoline (Method 8015M)** | NA | NA | NA | NA |
| PCBs (Method 8080) | | | | |
| All Analytes | NA | NA | NA | NA |
| PAHs (Method 8310) | | | | |
| Fluorene | NA | NA | NA | NA |
| Napthalene | NA | NA | NA | NA |
| Acenaphthalene | NA | NA | NA | NA |
| Acenaphthylene | NA | NA | NA | NA |
| Phenanthrene | NA | NA | NA | NA |

# Fort Wainwright Analytical Results Summary

| Monitoring Well ID<br>Sample ID<br>Date Sampled | AP-6188<br>93FW156510WA<br>8/31/93 | AP-6189<br>93FW156529WA<br>9/4/93 | AP-6190<br>93FW1565100WA<br>10/29/93 | AP-6191<br>93FW156518WA<br>8/31/93 |
|---|---|---|---|---|
| **Chlorinated herbicides (Method 8150M)** | | | | |
| Dicamba | NA | NA | NA | NA |
| **TOTAL METALS** | | | | |
| Aluminum | NA | NA | NA | NA |
| Arsenic | NA | NA | NA | NA |
| Barium | NA | NA | NA | NA |
| Cadmium | NA | NA | NA | NA |
| Calcium | NA | NA | NA | NA |
| Chromium | NA | NA | NA | NA |
| Copper | NA | NA | NA | NA |
| Iron | NA | NA | NA | NA |
| Lead | NA | NA | NA | NA |
| Magnesium | NA | NA | NA | NA |
| Manganese | NA | NA | NA | NA |
| Mercury | NA | NA | NA | NA |
| Nickel | NA | NA | NA | NA |
| Potassium | NA | NA | NA | NA |
| Selenium | NA | NA | NA | NA |
| Silver | NA | NA | NA | NA |
| Sodium | NA | NA | NA | NA |
| Vanadium | NA | NA | NA | NA |
| Zinc | NA | NA | NA | NA |
| **DISSOLVED METALS** | | | | |
| Arsenic | NA | NA | NA | NA |
| Antimony | NA | NA | NA | NA |
| Barium | NA | NA | NA | NA |
| Cadmium | NA | NA | NA | NA |
| Chromium | NA | NA | NA | NA |
| Copper | NA | NA | NA | NA |
| Iron | NA | NA | NA | NA |
| Lead | NA | NA | NA | NA |
| Manganese | NA | NA | NA | NA |
| Mercury | NA | NA | NA | NA |
| Nickel | NA | NA | NA | NA |
| Selenium | NA | NA | NA | NA |
| Silver | NA | NA | NA | NA |
| Vanadium | NA | NA | NA | NA |
| Zinc | NA | NA | NA | NA |

# Fort Wainwright Analytical Results Summary

| Monitoring Well ID<br>Sample ID<br>Date Sampled | AP-6192<br>93FW156532WA<br>9/6/93 | AP-6193<br>93FW156520WA<br>9/8/93 | AP-6194<br>93FW156533WA<br>9/6/93 | AP-6382<br>93106002GW<br>7/27/93 |
|---|---|---|---|---|
| VOCs (Method 8240/8260/524.2) | (8260) | (8260) | (8260) | (8240) |
| 1,1-Dichloroethane | ND | ND | ND | ND |
| 1,1-Dichloroethene | ND | ND | ND | ND |
| 1,1,1-Trichloroethane (TCA) | ND | ND | ND | ND |
| 1,1,2-Trichloroethane | ND | ND | ND | ND |
| 1,2-Dibromomethane | ND | ND | ND | ND |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | ND | ND | ND |
| 1,2-Dichloroethane | ND | ND | ND | ND |
| 1,2-Dichloropropane | ND | ND | ND | ND |
| 1,3-Dichloropropane | ND | ND | ND | ND |
| 1,2,4-Trichlorobenzene | ND | ND | ND | ND |
| 1,2,4-Trimethylbenzene | ND | 4.3 | ND | ND |
| 1,3,5-Trimethylbenzene | ND | 1.7 | ND | ND |
| 1,2-Dichlorobenzene | ND | ND | ND | ND |
| 1,3-Dichlorobenzene | ND | ND | ND | ND |
| 1,4-Dichlorobenzene | ND | ND | ND | ND |
| 2-Butanone (MEK) | ND | ND | ND | ND |
| 4-Isopropyltoluene | ND | ND | ND | ND |
| Acetone | ND | ND | ND | ND |
| Benzene | ND | ND | ND | ND |
| Bromodichloromethane | ND | ND | ND | ND |
| Carbon Disulfide | ND | ND | ND | ND |
| Carbon tetrachloride | ND | ND | ND | ND |
| Chlorobenzene | ND | ND | ND | ND |
| Chloroethane | ND | ND | ND | 13 |
| Chloroform | ND | ND | 1.7 | ND |
| Dibromochloromethane | ND | ND | ND | ND |
| Dichlorodifluoromethane (Freon 12) | ND | ND | ND | ND |
| Ethylbenzene | ND | 2 | ND | 56 |
| Isopropylbenzene | ND | ND | ND | ND |
| Methylene Chloride | 1.21B-O | ND | 1.1 B-O | ND |
| Napthalene | ND | ND | ND | ND |
| Tetrachlorethene (PCE) | ND | ND | ND | ND |
| Tetrahydrofuran | ND | ND | ND | ND |
| Toluene | ND | 4.3 | ND | ND |
| Total Xylenes | ND | ND | ND | 130 |
| Trichloroethene (TCE) | ND | ND | ND | ND |
| Trichlorofluoromethane (Freon 11) | ND | ND | ND | ND |
| n-Butylbenzene | ND | ND | ND | ND |
| n-Propylbenzene | ND | ND | ND | ND |
| cis-1,2-Dichloroethene | ND | ND | ND | 150 |
| trans-1,2-Dichloroethene | ND | ND | ND | ND |
| p-isopropyltoluene | ND | ND | ND | ND |
| sec-Butylbenzene | ND | ND | ND | ND |
| m-Xylene | ND | 9.1 | ND | ND |
| o+p-Xylene | ND | 5.1 | ND | ND |

# Fort Wainwright Analytical Results Summary

| Monitoring Well ID<br>Sample ID<br>Date Sampled | AP-6192<br>93FW156532WA<br>9/6/93 | AP-6193<br>93FW156520WA<br>9/8/93 | AP-6194<br>93FW156533WA<br>9/6/93 | AP-6382<br>93106002GW<br>7/27/93 |
|---|---|---|---|---|
| **VOCs (8020)** | | | | |
| 1,2-Dichlorobenzene | NA | NA | NA | ND |
| 1,3-Dichlorobenzene | NA | NA | NA | ND |
| 1,4-Dichlorobenzene | NA | NA | NA | ND |
| Benzene | NA | NA | NA | 0.5 |
| Chlorobenzene | NA | NA | NA | ND |
| Ethylbenzene | NA | NA | NA | 49 |
| Toluene | NA | NA | NA | ND |
| Xylenes (total) | NA | NA | NA | 101 |
| **Semi-VOCs (Method 8270)** | | | | |
| Phenol | NA | NA | NA | ND |
| 2 Methylphenol | NA | NA | NA | ND |
| 2,4-Dimethylphenol | NA | NA | NA | ND |
| 2-Methylnaphthalene | NA | NA | NA | ND |
| 3- and 4-Methylphenol | NA | NA | NA | ND |
| 4-Nitrophenol | NA | NA | NA | ND |
| Acenaphthene | NA | NA | NA | ND |
| Acenaphthylene | NA | NA | NA | ND |
| Benzyl Alcohol | NA | NA | NA | ND |
| Benzoic Acid | NA | NA | NA | ND |
| bis-(2-ethylhexyl) phthalate | NA | NA | NA | ND |
| butylbenzlphthalate | NA | NA | NA | ND |
| Di-n-butylphthalate | NA | NA | NA | ND |
| **Di-n-octyl phthalate** | NA | NA | NA | ND |
| Fluorene | NA | NA | NA | ND |
| Napthalene | NA | NA | NA | 78 |
| Phenanthrene | NA | NA | NA | ND |
| **FUEL SCAN (Method 8015M)** | | | | |
| Mineral Spirits | NA | NA | NA | NA |
| JP4 | NA | NA | NA | NA |
| Gasoline | NA | NA | NA | NA |
| J. Fuel (A) | NA | NA | NA | NA |
| Kerosene | NA | NA | NA | NA |
| Diesel | NA | NA | NA | NA |
| Bunker C (Diesel #6) | NA | NA | NA | NA |
| Other | NA | NA | NA | NA |
| | | | | |
| **EPH-Diesel (Method 8100M)** | NA | NA | NA | 2,070 |
| **TRPH (Method 418.1)** | NA | NA | NA | ND |
| **VPH-Gasoline (Method 8015M)** | NA | NA | NA | 3,850 |
| **PCBs (Method 8080)** | | | | |
| All Analytes | NA | NA | NA | NA |
| **PAHs (Method 8310)** | | | | |
| Fluorene | NA | NA | NA | NA |
| Napthalene | NA | NA | NA | NA |
| Acenaphthalene | NA | NA | NA | NA |
| Acenaphthylene | NA | NA | NA | NA |
| Phenanthrene | NA | NA | NA | NA |

# Fort Wainwright Analytical Results Summary

| Monitoring Well ID<br>Sample ID<br>Date Sampled | AP-6192<br>93FW156532WA<br>9/6/93 | AP-6193<br>93FW156520WA<br>9/8/93 | AP-6194<br>93FW156533WA<br>9/6/93 | AP-6382<br>93106002GW<br>7/27/93 |
|---|---|---|---|---|
| **Chlorinated herbicides (Method 8150M)** | | | | |
| Dicamba | NA | NA | NA | NA |
| **TOTAL METALS** | | | | |
| Aluminum | NA | NA | NA | NA |
| Arsenic | NA | NA | NA | NA |
| Barium | NA | NA | NA | NA |
| Cadmium | NA | NA | NA | NA |
| Calcium | NA | NA | NA | NA |
| Chromium | NA | NA | NA | NA |
| Copper | NA | NA | NA | NA |
| Iron | NA | NA | NA | NA |
| Lead | NA | NA | NA | NA |
| Magnesium | NA | NA | NA | NA |
| Manganese | NA | NA | NA | NA |
| Mercury | NA | NA | NA | NA |
| Nickel | NA | NA | NA | NA |
| Potassium | NA | NA | NA | NA |
| Selenium | NA | NA | NA | NA |
| Silver | NA | NA | NA | NA |
| Sodium | NA | NA | NA | NA |
| Vanadium | NA | NA | NA | NA |
| Zinc | NA | NA | NA | NA |
| **DISSOLVED METALS** | | | | |
| Arsenic | NA | NA | NA | NA |
| Antimony | NA | NA | NA | NA |
| Barium | NA | NA | NA | NA |
| Cadmium | NA | NA | NA | NA |
| Chromium | NA | NA | NA | NA |
| Copper | NA | NA | NA | NA |
| Iron | NA | NA | NA | NA |
| Lead | NA | NA | NA | NA |
| Manganese | NA | NA | NA | NA |
| Mercury | NA | NA | NA | NA |
| Nickel | NA | NA | NA | NA |
| Selenium | NA | NA | NA | NA |
| Silver | NA | NA | NA | NA |
| Vanadium | NA | NA | NA | NA |
| Zinc | NA | NA | NA | NA |

# Fort Wainwright Analytical Results Summary

| Monitoring Well ID<br>Sample ID<br>Date Sampled | AP-6383<br>93106003GW<br>7/27/93 | AP-6384<br>93106005GW<br>7/27/93 | AP-6385<br>93106006GW<br>7/26/93 | AP-6386<br>93106007GW<br>7/27/93 | AP-6387<br>93106008GW<br>7/26/93 |
|---|---|---|---|---|---|
| VOCs (Method 8240/8260/524.2) | (8240) | (8240) | (8240) | (8240) | (8240) |
| 1,1-Dichloroethane | ND | ND | ND | ND | ND |
| 1,1-Dichloroethene | ND | ND | ND | ND | ND |
| 1,1,1-Trichloroethane (TCA) | ND | ND | ND | ND | ND |
| 1,1,2-Trichloroethane | ND | ND | ND | ND | ND |
| 1,2-Dibromomethane | ND | ND | ND | ND | ND |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | ND | ND | ND | ND |
| 1,2-Dichloroethane | ND | ND | ND | ND | ND |
| 1,2-Dichloropropane | ND | ND | ND | ND | ND |
| 1,3-Dichloropropane | ND | ND | ND | ND | ND |
| 1,2,4-Trichlorobenzene | ND | ND | ND | ND | ND |
| 1,2,4-Trimethylbenzene | ND | ND | ND | ND | ND |
| 1,3,5-Trimethylbenzene | ND | ND | ND | ND | ND |
| 1,2-Dichlorobenzene | ND | ND | ND | ND | ND |
| 1,3-Dichlorobenzene | ND | ND | ND | ND | ND |
| 1,4-Dichlorobenzene | ND | ND | ND | ND | ND |
| 2-Butanone (MEK) | ND | ND | ND | ND | ND |
| 4-Isopropyltoluene | ND | ND | ND | ND | ND |
| Acetone | ND | ND | ND | ND | ND |
| Benzene | ND | ND | ND | ND | ND |
| Bromodichloromethane | ND | ND | ND | ND | ND |
| Carbon Disulfide | ND | ND | ND | ND | ND |
| Carbon tetrachloride | ND | ND | ND | ND | ND |
| Chlorobenzene | ND | ND | ND | ND | ND |
| Chloroethane | ND | ND | ND | ND | ND |
| Chloroform | ND | ND | ND | ND | ND |
| Dibromochloromethane | ND | ND | ND | ND | ND |
| Dichlorodifluoromethane (Freon 12) | ND | ND | ND | ND | ND |
| Ethylbenzene | ND | 8 | ND | ND | 6 |
| Isopropylbenzene | ND | ND | ND | ND | ND |
| Methylene Chloride | ND | ND | ND | ND | ND |
| Napthalene | ND | ND | ND | ND | ND |
| Tetrachlorethene (PCE) | ND | ND | ND | ND | ND |
| Tetrahydrofuran | ND | ND | ND | ND | ND |
| Toluene | ND | ND | ND | ND | ND |
| Total Xylenes | ND | 20 | ND | ND | 10 |
| Trichloroethene (TCE) | ND | ND | 120 | ND | 10 |
| Trichlorofluoromethane (Freon 11) | ND | ND | ND | ND | ND |
| n-Butylbenzene | ND | ND | ND | ND | ND |
| n-Propylbenzene | ND | ND | ND | ND | ND |
| cis-1,2-Dichloroethene | ND | ND | 65 | 75 | 39 |
| trans-1,2-Dichloroethene | ND | ND | 7 | ND | ND |
| p-isopropyltoluene | ND | ND | ND | ND | ND |
| sec-Butylbenzene | ND | ND | ND | ND | ND |
| m-Xylene | ND | ND | ND | ND | ND |
| o+p-Xylene | ND | ND | ND | ND | ND |

# Fort Wainwright Analytical Results Summary

| Monitoring Well ID<br>Sample ID<br>Date Sampled | AP-6383<br>93106003GW<br>7/27/93 | AP-6384<br>93106005GW<br>7/27/93 | AP-6385<br>93106006GW<br>7/26/93 | AP-6386<br>93106007GW<br>7/27/93 | AP-6387<br>93106008GW<br>7/26/93 |
|---|---|---|---|---|---|
| **VOCs (8020)** | | | | | |
| 1,2-Dichlorobenzene | ND | ND | NA | ND | NA |
| 1,3-Dichlorobenzene | ND | ND | NA | ND | NA |
| 1,4-Dichlorobenzene | ND | ND | NA | ND | NA |
| Benzene | ND | ND | NA | ND | NA |
| Chlorobenzene | ND | ND | NA | ND | NA |
| Ethylbenzene | 3 | 14 | NA | 5 | NA |
| Toluene | ND | ND | NA | ND | NA |
| Xylenes (total) | 10 | 43 | NA | 13 | NA |
| **Semi-VOCs (Method 8270)** | | | | | |
| Phenol | ND | ND | ND | ND | ND |
| 2 Methylphenol | ND | ND | ND | ND | ND |
| 2,4-Dimethylphenol | ND | ND | ND | ND | ND |
| 2-Methylnaphthalene | ND | ND | ND | ND | ND |
| 3- and 4-Methylphenol | ND | ND | ND | ND | ND |
| 4-Nitrophenol | ND | ND | ND | ND | ND |
| Acenaphthene | ND | ND | ND | ND | ND |
| Acenaphthylene | ND | ND | ND | ND | ND |
| Benzyl Alcohol | ND | ND | ND | ND | ND |
| Benzoic Acid | ND | ND | ND | ND | ND |
| bis-(2-ethylhexyl) phthalate | ND | ND | ND | ND | ND |
| butylbenzlphthalate | ND | ND | ND | ND | ND |
| Di-n-butylphthalate | ND | ND | ND | ND | ND |
| **Di-n-octyl phthalate** | ND | ND | ND | ND | ND |
| Fluorene | ND | ND | ND | ND | ND |
| Napthalene | ND | 16 | ND | ND | 20 |
| Phenanthrene | ND | ND | ND | ND | ND |
| **FUEL SCAN (Method 8015M)** | | | | | |
| Mineral Spirits | NA | NA | NA | NA | NA |
| JP4 | NA | NA | NA | NA | NA |
| Gasoline | NA | NA | NA | NA | NA |
| J. Fuel (A) | NA | NA | NA | NA | NA |
| Kerosene | NA | NA | NA | NA | NA |
| Diesel | NA | NA | NA | NA | NA |
| Bunker C (Diesel #6) | NA | NA | NA | NA | NA |
| Other | NA | NA | NA | NA | NA |
| | | | | | |
| **EPH-Diesel (Method 8100M)** | 407 | 1,500 | 298 | 1,280 | 697 |
| **TRPH (Method 418.1)** | ND | 900 | 300 | 700 | ND |
| **VPH-Gasoline (Method 8015M)** | 536 | 1,050 | 130 | 1,380 | 1,280-J |
| **PCBs (Method 8080)** | | | | | |
| All Analytes | NA | NA | NA | NA | NA |
| **PAHs (Method 8310)** | | | | | |
| Fluorene | NA | NA | NA | NA | NA |
| Napthalene | NA | NA | NA | NA | NA |
| Acenaphthalene | NA | NA | NA | NA | NA |
| Acenaphthylene | NA | NA | NA | NA | NA |
| Phenanthrene | NA | NA | NA | NA | NA |

# Fort Wainwright Analytical Results Summary

| Monitoring Well ID<br>Sample ID<br>Date Sampled | AP-6383<br>93106003GW<br>7/27/93 | AP-6384<br>93106005GW<br>7/27/93 | AP-6385<br>93106006GW<br>7/26/93 | AP-6386<br>93106007GW<br>7/27/93 | AP-6387<br>93106008GW<br>7/26/93 |
|---|---|---|---|---|---|
| **Chlorinated herbicides (Method 8150M)** | | | | | |
| Dicamba | NA | NA | NA | NA | NA |
| **TOTAL METALS** | | | | | |
| Aluminum | NA | NA | NA | NA | NA |
| Arsenic | NA | NA | NA | NA | NA |
| Barium | NA | NA | NA | NA | NA |
| Cadmium | NA | NA | NA | NA | NA |
| Calcium | NA | NA | NA | NA | NA |
| Chromium | NA | NA | NA | NA | NA |
| Copper | NA | NA | NA | NA | NA |
| Iron | NA | NA | NA | NA | NA |
| Lead | NA | NA | NA | NA | NA |
| Magnesium | NA | NA | NA | NA | NA |
| Manganese | NA | NA | NA | NA | NA |
| Mercury | NA | NA | NA | NA | NA |
| Nickel | NA | NA | NA | NA | NA |
| Potassium | NA | NA | NA | NA | NA |
| Selenium | NA | NA | NA | NA | NA |
| Silver | NA | NA | NA | NA | NA |
| Sodium | NA | NA | NA | NA | NA |
| Vanadium | NA | NA | NA | NA | NA |
| Zinc | NA | NA | NA | NA | NA |
| **DISSOLVED METALS** | | | | | |
| Arsenic | NA | NA | NA | NA | NA |
| Antimony | NA | NA | NA | NA | NA |
| Barium | NA | NA | NA | NA | NA |
| Cadmium | NA | NA | NA | NA | NA |
| Chromium | NA | NA | NA | NA | NA |
| Copper | NA | NA | NA | NA | NA |
| Iron | NA | NA | NA | NA | NA |
| Lead | NA | NA | NA | NA | NA |
| Manganese | NA | NA | NA | NA | NA |
| Mercury | NA | NA | NA | NA | NA |
| Nickel | NA | NA | NA | NA | NA |
| Selenium | NA | NA | NA | NA | NA |
| Silver | NA | NA | NA | NA | NA |
| Vanadium | NA | NA | NA | NA | NA |
| Zinc | NA | NA | NA | NA | NA |

# Fort Wainwright Analytical Results Summary

| Monitoring Well ID<br>Sample ID<br>Date Sampled | AP-6388<br>93106009GW<br>7/27/93 | AP-6389<br>93106010GW<br>7/26/93 | AP-6390<br>93106011GW<br>7/26/93 | AP-6391<br>93106012GW<br>7/27/93 | AP-6392<br>93106013GW<br>7/26/93 |
|---|---|---|---|---|---|
| VOCs (Method 8240/8260/524.2) | (8240) | (8240) | (8240) | (8240) | (8240) |
| 1,1-Dichloroethane | ND | ND | ND | ND | ND |
| 1,1-Dichloroethene | ND | ND | ND | ND | ND |
| 1,1,1-Trichloroethane (TCA) | ND | ND | ND | ND | ND |
| 1,1,2-Trichloroethane | ND | ND | ND | ND | ND |
| 1,2-Dibromomethane | ND | ND | ND | ND | ND |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | ND | ND | ND | ND |
| 1,2-Dichloroethane | ND | ND | ND | ND | ND |
| 1,2-Dichloropropane | ND | ND | ND | ND | ND |
| 1,3-Dichloropropane | ND | ND | ND | ND | ND |
| 1,2,4-Trichlorobenzene | ND | ND | ND | ND | ND |
| 1,2,4-Trimethylbenzene | ND | ND | ND | ND | ND |
| 1,3,5-Trimethylbenzene | ND | ND | ND | ND | ND |
| 1,2-Dichlorobenzene | ND | ND | ND | ND | ND |
| 1,3-Dichlorobenzene | ND | ND | ND | ND | ND |
| 1,4-Dichlorobenzene | ND | ND | ND | ND | ND |
| 2-Butanone (MEK) | ND | ND | ND | ND | ND |
| 4-Isopropyltoluene | ND | ND | ND | ND | ND |
| Acetone | ND | ND | ND | ND | ND |
| Benzene | ND | 16 | 6 | ND | ND |
| Bromodichloromethane | ND | ND | ND | ND | ND |
| Carbon Disulfide | ND | ND | ND | ND | ND |
| Carbon tetrachloride | ND | ND | ND | ND | ND |
| Chlorobenzene | ND | ND | ND | ND | ND |
| Chloroethane | ND | ND | ND | ND | ND |
| Chloroform | ND | ND | ND | ND | ND |
| Dibromochloromethane | ND | ND | ND | ND | ND |
| Dichlorodifluoromethane (Freon 12) | ND | ND | ND | ND | ND |
| Ethylbenzene | ND | 47 | ND | ND | ND |
| Isopropylbenzene | ND | ND | ND | ND | ND |
| Methylene Chloride | ND | ND | ND | ND | ND |
| Napthalene | ND | ND | ND | ND | ND |
| Tetrachlorethene (PCE) | ND | ND | ND | ND | ND |
| Tetrahydrofuran | ND | ND | ND | ND | ND |
| Toluene | ND | 27 | ND | ND | ND |
| Total Xylenes | 8 | 150 | ND | ND | ND |
| Trichloroethene (TCE) | ND | ND | ND | ND | ND |
| Trichlorofluoromethane (Freon 11) | ND | ND | ND | ND | ND |
| n-Butylbenzene | ND | ND | ND | ND | ND |
| n-Propylbenzene | ND | ND | ND | ND | ND |
| cis-1,2-Dichloroethene | ND | ND | ND | ND | ND |
| trans-1,2-Dichloroethene | ND | ND | ND | ND | ND |
| p-isopropyltoluene | ND | ND | ND | ND | ND |
| sec-Butylbenzene | ND | ND | ND | ND | ND |
| m-Xylene | ND | ND | ND | ND | ND |
| o+p-Xylene | ND | ND | ND | ND | ND |

# Fort Wainwright Analytical Results Summary

| Monitoring Well ID<br>Sample ID<br>Date Sampled | AP-6388<br>93106009GW<br>7/27/93 | AP-6389<br>93106010GW<br>7/26/93 | AP-6390<br>93106011GW<br>7/26/93 | AP-6391<br>93106012GW<br>7/27/93 | AP-6392<br>93106013GW<br>7/26/93 |
|---|---|---|---|---|---|
| **VOCs (8020)** | | | | | |
| 1,2-Dichlorobenzene | ND | NA | NA | ND | NA |
| 1,3-Dichlorobenzene | ND | NA | NA | ND | NA |
| 1,4-Dichlorobenzene | ND | NA | NA | ND | NA |
| Benzene | ND | NA | NA | ND | NA |
| Chlorobenzene | ND | NA | NA | ND | NA |
| Ethylbenzene | 5 | NA | NA | ND | NA |
| Toluene | ND | NA | NA | ND | NA |
| Xylenes (total) | 13 | NA | NA | ND | NA |
| **Semi-VOCs (Method 8270)** | | | | | |
| Phenol | ND | ND | ND | ND | ND |
| 2 Methylphenol | ND | ND | ND | ND | ND |
| 2,4-Dimethylphenol | ND | ND | ND | ND | ND |
| 2-Methylnaphthalene | ND | 11 | ND | ND | ND |
| 3- and 4-Methylphenol | ND | ND | ND | ND | ND |
| 4-Nitrophenol | ND | ND | ND | ND | ND |
| Acenaphthene | ND | ND | ND | ND | ND |
| Acenaphthylene | ND | ND | ND | ND | ND |
| Benzyl Alcohol | ND | ND | ND | ND | ND |
| Benzoic Acid | ND | ND | ND | ND | ND |
| bis-(2-ethylhexyl) phthalate | ND | ND | ND | ND | ND |
| butylbenzlphthalate | ND | ND | ND | ND | ND |
| Di-n-butylphthalate | ND | ND | ND | ND | ND |
| **Di-n-octyl phthalate** | ND | ND | ND | ND | ND |
| Fluorene | ND | ND | ND | ND | ND |
| Napthalene | 14 | 45 | ND | ND | ND |
| Phenanthrene | ND | ND | ND | ND | ND |
| **FUEL SCAN (Method 8015M)** | | | | | |
| Mineral Spirits | NA | NA | NA | NA | NA |
| JP4 | NA | NA | NA | NA | NA |
| Gasoline | NA | NA | NA | NA | NA |
| J. Fuel (A) | NA | NA | NA | NA | NA |
| Kerosene | NA | NA | NA | NA | NA |
| Diesel | NA | NA | NA | NA | NA |
| Bunker C (Diesel #6) | NA | NA | NA | NA | NA |
| Other | NA | NA | NA | NA | NA |
| | | | | | |
| **EPH-Diesel (Method 8100M)** | 1,140 | 1,020 | 289 | ND | ND |
| **TRPH (Method 418.1)** | 800 | 1,700 | ND | ND | ND |
| **VPH-Gasoline (Method 8015M)** | 1,190 | 2,800 | 208 | ND | ND |
| **PCBs (Method 8080)** | | | | | |
| All Analytes | NA | NA | NA | NA | NA |
| **PAHs (Method 8310)** | | | | | |
| Fluorene | NA | NA | NA | NA | NA |
| Napthalene | NA | NA | NA | NA | NA |
| Acenaphthalene | NA | NA | NA | NA | NA |
| Acenaphthylene | NA | NA | NA | NA | NA |
| Phenanthrene | NA | NA | NA | NA | NA |

# Fort Wainwright Analytical Results Summary

| Monitoring Well ID<br>Sample ID<br>Date Sampled | AP-6388<br>93106009GW<br>7/27/93 | AP-6389<br>93106010GW<br>7/26/93 | AP-6390<br>93106011GW<br>7/26/93 | AP-6391<br>93106012GW<br>7/27/93 | AP-6392<br>93106013GW<br>7/26/93 |
|---|---|---|---|---|---|
| **Chlorinated herbicides (Method 8150M)** | | | | | |
| Dicamba | NA | NA | NA | NA | NA |
| **TOTAL METALS** | | | | | |
| Aluminum | NA | NA | NA | NA | NA |
| Arsenic | NA | NA | NA | NA | NA |
| Barium | NA | NA | NA | NA | NA |
| Cadmium | NA | NA | NA | NA | NA |
| Calcium | NA | NA | NA | NA | NA |
| Chromium | NA | NA | NA | NA | NA |
| Copper | NA | NA | NA | NA | NA |
| Iron | NA | NA | NA | NA | NA |
| Lead | NA | NA | NA | NA | NA |
| Magnesium | NA | NA | NA | NA | NA |
| Manganese | NA | NA | NA | NA | NA |
| Mercury | NA | NA | NA | NA | NA |
| Nickel | NA | NA | NA | NA | NA |
| Potassium | NA | NA | NA | NA | NA |
| Selenium | NA | NA | NA | NA | NA |
| Silver | NA | NA | NA | NA | NA |
| Sodium | NA | NA | NA | NA | NA |
| Vanadium | NA | NA | NA | NA | NA |
| Zinc | NA | NA | NA | NA | NA |
| **DISSOLVED METALS** | | | | | |
| Arsenic | NA | NA | NA | NA | NA |
| Antimony | NA | NA | NA | NA | NA |
| Barium | NA | NA | NA | NA | NA |
| Cadmium | NA | NA | NA | NA | NA |
| Chromium | NA | NA | NA | NA | NA |
| Copper | NA | NA | NA | NA | NA |
| Iron | NA | NA | NA | NA | NA |
| Lead | NA | NA | NA | NA | NA |
| Manganese | NA | NA | NA | NA | NA |
| Mercury | NA | NA | NA | NA | NA |
| Nickel | NA | NA | NA | NA | NA |
| Selenium | NA | NA | NA | NA | NA |
| Silver | NA | NA | NA | NA | NA |
| Vanadium | NA | NA | NA | NA | NA |
| Zinc | NA | NA | NA | NA | NA |

# Fort Wainwright Analytical Results Summary

| Monitoring Well ID<br>Sample ID<br>Date Sampled | AP-6393<br>93106014GW<br>7/26/93 | AP-6394<br>93106015GW<br>7/26/93 |
|---|---|---|
| VOCs (Method 8240/8260/524.2) | (8240) | (8240) |
| 1,1-Dichloroethane | ND | ND |
| 1,1-Dichloroethene | ND | ND |
| 1,1,1-Trichloroethane (TCA) | ND | ND |
| 1,1,2-Trichloroethane | ND | ND |
| 1,2-Dibromomethane | ND | ND |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | ND |
| 1,2-Dichloroethane | ND | ND |
| 1,2-Dichloropropane | ND | ND |
| 1,3-Dichloropropane | ND | ND |
| 1,2,4-Trichlorobenzene | ND | ND |
| 1,2,4-Trimethylbenzene | ND | ND |
| 1,3,5-Trimethylbenzene | ND | ND |
| 1,2-Dichlorobenzene | ND | ND |
| 1,3-Dichlorobenzene | ND | ND |
| 1,4-Dichlorobenzene | ND | ND |
| 2-Butanone (MEK) | ND | ND |
| 4-Isopropyltoluene | ND | ND |
| Acetone | ND | ND |
| Benzene | ND | ND |
| Bromodichloromethane | ND | ND |
| Carbon Disulfide | ND | ND |
| Carbon tetrachloride | ND | ND |
| Chlorobenzene | ND | ND |
| Chloroethane | ND | ND |
| Chloroform | ND | ND |
| Dibromochloromethane | ND | ND |
| Dichlorodifluoromethane (Freon 12) | ND | ND |
| Ethylbenzene | ND | ND |
| Isopropylbenzene | ND | ND |
| Methylene Chloride | ND | ND |
| Napthalene | ND | ND |
| Tetrachlorethene (PCE) | ND | ND |
| Tetrahydrofuran | ND | ND |
| Toluene | ND | ND |
| Total Xylenes | ND | ND |
| Trichloroethene (TCE) | ND | ND |
| Trichlorofluoromethane (Freon 11) | ND | ND |
| n-Butylbenzene | ND | ND |
| n-Propylbenzene | ND | ND |
| cis-1,2-Dichloroethene | ND | ND |
| trans-1,2-Dichloroethene | ND | ND |
| p-isopropyltoluene | ND | ND |
| sec-Butylbenzene | ND | ND |
| m-Xylene | ND | ND |
| o+p-Xylene | ND | ND |

# Fort Wainwright Analytical Results Summary

| Monitoring Well ID<br>Sample ID<br>Date Sampled | AP-6393<br>93106014GW<br>7/26/93 | AP-6394<br>93106015GW<br>7/26/93 |
|---|---|---|
| VOCs (8020) | | |
| 1,2-Dichlorobenzene | NA | NA |
| 1,3-Dichlorobenzene | NA | NA |
| 1,4-Dichlorobenzene | NA | NA |
| Benzene | NA | NA |
| Chlorobenzene | NA | NA |
| Ethylbenzene | NA | NA |
| Toluene | NA | NA |
| Xylenes (total) | NA | NA |
| Semi-VOCs (Method 8270) | | |
| Phenol | ND | ND |
| 2 Methylphenol | ND | ND |
| 2,4-Dimethylphenol | ND | ND |
| 2-Methylnaphthalene | ND | ND |
| 3- and 4-Methylphenol | ND | ND |
| 4-Nitrophenol | ND | ND |
| Acenaphthene | ND | ND |
| Acenaphthylene | ND | ND |
| Benzyl Alcohol | ND | ND |
| Benzoic Acid | ND | ND |
| bis-(2-ethylhexyl) phthalate | ND | ND |
| butylbenzlphthalate | ND | ND |
| Di-n-butylphthalate | ND | ND |
| **Di-n-octyl phthalate** | ND | ND |
| Fluorene | ND | ND |
| Napthalene | ND | ND |
| Phenanthrene | ND | ND |
| FUEL SCAN (Method 8015M) | | |
| Mineral Spirits | NA | NA |
| JP4 | NA | NA |
| Gasoline | NA | NA |
| J. Fuel (A) | NA | NA |
| Kerosene | NA | NA |
| Diesel | NA | NA |
| Bunker C (Diesel #6) | NA | NA |
| Other | NA | NA |
| | | |
| **EPH-Diesel (Method 8100M)** | 933 | ND |
| **TRPH (Method 418.1)** | 500 | ND |
| **VPH-Gasoline (Method 8015M)** | 1,900-J | ND |
| PCBs (Method 8080) | | |
| All Analytes | NA | NA |
| PAHs (Method 8310) | | |
| Fluorene | NA | NA |
| Napthalene | NA | NA |
| Acenaphthalene | NA | NA |
| Acenaphthylene | NA | NA |
| Phenanthrene | NA | NA |

# Fort Wainwright Analytical Results Summary

| Monitoring Well ID<br>Sample ID<br>Date Sampled | AP-6393<br>93106014GW<br>7/26/93 | AP-6394<br>93106015GW<br>7/26/93 |
|---|---|---|
| **Chlorinated herbicides (Method 8150M)** | | |
| Dicamba | NA | NA |
| **TOTAL METALS** | | |
| Aluminum | NA | NA |
| Arsenic | NA | NA |
| Barium | NA | NA |
| Cadmium | NA | NA |
| Calcium | NA | NA |
| Chromium | NA | NA |
| Copper | NA | NA |
| Iron | NA | NA |
| Lead | NA | NA |
| Magnesium | NA | NA |
| Manganese | NA | NA |
| Mercury | NA | NA |
| Nickel | NA | NA |
| Potassium | NA | NA |
| Selenium | NA | NA |
| Silver | NA | NA |
| Sodium | NA | NA |
| Vanadium | NA | NA |
| Zinc | NA | NA |
| **DISSOLVED METALS** | | |
| Arsenic | NA | NA |
| Antimony | NA | NA |
| Barium | NA | NA |
| Cadmium | NA | NA |
| Chromium | NA | NA |
| Copper | NA | NA |
| Iron | NA | NA |
| Lead | NA | NA |
| Manganese | NA | NA |
| Mercury | NA | NA |
| Nickel | NA | NA |
| Selenium | NA | NA |
| Silver | NA | NA |
| Vanadium | NA | NA |
| Zinc | NA | NA |

# Fort Wainwright Analytical Results Summary

| Monitoring Well ID<br>Sample ID<br>Date Sampled |
|---|
| VOCs (Method 8240/8260/524.2) |
| 1,1-Dichloroethane |
| 1,1-Dichloroethene |
| 1,1,1-Trichloroethane (TCA) |
| 1,1,2-Trichloroethane |
| 1,2-Dibromomethane |
| 1,2-Dibromo-3-chloropropane (DBCP) |
| 1,2-Dichloroethane |
| 1,2-Dichloropropane |
| 1,3-Dichloropropane |
| 1,2,4-Trichlorobenzene |
| 1,2,4-Trimethylbenzene |
| 1,3,5-Trimethylbenzene |
| 1,2-Dichlorobenzene |
| 1,3-Dichlorobenzene |
| 1,4-Dichlorobenzene |
| 2-Butanone (MEK) |
| 4-Isopropyltoluene |
| Acetone |
| Benzene |
| Bromodichloromethane |
| Carbon Disulfide |
| Carbon tetrachloride |
| Chlorobenzene |
| Chloroethane |
| Chloroform |
| Dibromochloromethane |
| Dichlorodifluoromethane (Freon 12) |
| Ethylbenzene |
| Isopropylbenzene |
| Methylene Chloride |
| Napthalene |
| Tetrachlorethene (PCE) |
| Tetrahydrofuran |
| Toluene |
| Total Xylenes |
| Trichloroethene (TCE) |
| Trichlorofluoromethane (Freon 11) |
| n-Butylbenzene |
| n-Propylbenzene |
| cis-1,2-Dichloroethene |
| trans-1,2-Dichloroethene |
| p-isopropyltoluene |
| sec-Butylbenzene |
| m-Xylene |
| o+p-Xylene |

**Definitions:**

ND - not detected
NA - not analyzed
NR - not recorded
R - rejected
VOCs - Volatile Organic Compounds
PCBs - Polychlorinated Biphenyls
PAHs - Polynuclear Aromatic Hydrocarbons

FOOTNOTES:

Qualifiers for AP5271 through AP5537, 1990 - 1991 samples

B - indicates the analyte is found in the blank as well as the sample.
D - result is from the analysis of a diluted sample.
E - indicates an estimated value.
J - compound detected below reportable detection limits

Qualifiers for AP5271 through AP5537, 1992 samples

+unidentified peaks eluting in diesel range
++unidentified peaks eluting in heavy hydrocarbon range

Qualifiers for AP5747 through AP5761, June 1992 samples

** - values should be considered estimates based on data quality assessment.
B - indicates compound was found in associated blanks as well as in sample.
J - indicates as estimated value
E - identifies compouinds whose concentrations exceed the calibration range of the GCMS instrument for that specific analysis
F - indicates that the reported value is less than CRDL but greater than or equal to IDL (instrument detection limit).
N - Spike sample recovery not within control limits.
W - Post digestion spike for furnace atomic absorption analysis is out of controllimits (85 to 115 percent), while sample absorbance is less than 50 percent of spike absorbance.

Qualifiers for AP5823 through AP5826, 1992 - 1993 samples

a - result is from the analysis of a diluted sample.
* - result derived from Method 8015M

# Fort Wainwright Analytical Results Summary

| Monitoring Well ID<br>Sample ID<br>Date Sampled |
|---|
| **VOCs (8020)** |
| 1,2-Dichlorobenzene |
| 1,3-Dichlorobenzene |
| 1,4-Dichlorobenzene |
| Benzene |
| Chlorobenzene |
| Ethylbenzene |
| Toluene |
| Xylenes (total) |
| **Semi-VOCs (Method 8270)** |
| Phenol |
| 2 Methylphenol |
| 2,4-Dimethylphenol |
| 2-Methylnaphthalene |
| 3- and 4-Methylphenol |
| 4-Nitrophenol |
| Acenaphthene |
| Acenaphthylene |
| Benzyl Alcohol |
| Benzoic Acid |
| bis-(2-ethylhexyl) phthalate |
| butylbenzlphthalate |
| Di-n-butylphthalate |
| **Di-n-octyl phthalate** |
| Fluorene |
| Napthalene |
| Phenanthrene |
| **FUEL SCAN (Method 8015M)** |
| Mineral Spirits |
| JP4 |
| Gasoline |
| J. Fuel (A) |
| Kerosene |
| Diesel |
| Bunker C (Diesel #6) |
| Other |
| |
| **EPH-Diesel (Method 8100M)** |
| **TRPH (Method 418.1)** |
| **VPH-Gasoline (Method 8015M)** |
| **PCBs (Method 8080)** |
| All Analytes |
| **PAHs (Method 8310)** |
| Fluorene |
| Napthalene |
| Acenaphthalene |
| Acenaphthylene |
| Phenanthrene |

**Definitions:**

Qualifiers for AP 5943 through AP 5982, 1993 samples

a - analyte concentration is an estimate because this analyte was also found in the method blank.

b - Associated QC failed. Insufficient sample quantity remained for additional analysis.

g - USACE (COE) Chemical Quality Assurance Report considers this an estimate because the relative percent difference was outside of the limit.

i - USACE CQAR considers this data questionable because of its surrogate recoveries below EPA QC limits.

k - US COE considers this data a low estimate because matrix spike/ matrix spike duplicate recoveries were below QC limits.

e - Result is from the analysis of a diluted sample performed 7-28-93.

f - Result is from the analysis of a diluted sample performed 7-30-93.

c - Method reporting limit is elevated because of matrix interference.

j - USACE CQAR considers this data an estimate because the RPD was outside QC limits.

Qualifiers for AP6197 through AP6208, 1993 samples

B - indicates compound was found in associated blanks as well as in sample.

E - indicates an estimated value

V - presence of analyte maybe attributable to laboratory contamination

Qualifiers for AP5558 through AP6194, 1993 samples

FB - compound quantitated at a 5 x dilution factor

FE - compound quantitated at a 50 x dilution factor

bo - analyte found in blank and sample

FC - compound quantitated at a 10 x dilution factor

DD - compound quantitated at a 100 x dilution factor

# Fort Wainwright Analytical Results Summary

| Monitoring Well ID<br>Sample ID<br>Date Sampled | Definitions: |
|---|---|
| Chlorinated herbicides (Method 8150M) | |
| Dicamba | |
| TOTAL METALS | |
| Aluminum | |
| Arsenic | |
| Barium | |
| Cadmium | |
| Calcium | |
| Chromium | |
| Copper | |
| Iron | |
| Lead | |
| Magnesium | |
| Manganese | |
| Mercury | |
| Nickel | |
| Potassium | |
| Selenium | |
| Silver | |
| Sodium | |
| Vanadium | |
| Zinc | |
| DISSOLVED METALS | |
| Arsenic | |
| Antimony | |
| Barium | |
| Cadmium | |
| Chromium | |
| Copper | |
| Iron | |
| Lead | |
| Manganese | |
| Mercury | |
| Nickel | |
| Selenium | |
| Silver | |
| Vanadium | |
| Zinc | |

## 1993 OU 1, PSE 2 Soil Data

Source: HLA, April 15, 1994
Operable Unit 1
Preliminary Source Evaluation 2
Fort Wainwright, Alaska

# 1993 OU1, PSE2 Soil Data

| Sample Number | | 93FW0501SL | 93FW0502SL | 93FW0503SL | 93FW0504SL |
|---|---|---|---|---|---|
| Lab Code | | K3794-1 | K3794-2 | K3794-3 | K3794-4 |
| Date | | 6/29/93 | 6/29/93 | 6/29/93 | 6/29/93 |
| Location | | 1599-1SS | 1599-2SS | 1599-3SS | 1599-4SS |
| Depth | | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 |
| Type | | PR | PR | PR | PR |
| Analyte | Units | | | | |
| EPA Methods 3540/8100 DRO | | | | | |
| DRO | mg/Kg(ppm) | 1700.00 | 2300.00 | 750.00 | 4100.00 |
| EPA Methods 5030/8015 GRO | | | | | |
| GRO | mg/Kg(ppm) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| EPA Method 8290 | | | | | |
| 1,2,3,4,6,7,8-HpCDD | pg/g | NA | NA | NA | NA |
| 1,2,3,4,6,7,8-HpCDF | pg/g | NA | NA | NA | NA |
| 1,2,3,4,7,8,9-HpCDF | pg/g | NA | NA | NA | NA |
| 1,2,3,4,7,8-HxCDD | pg/g | NA | NA | NA | NA |
| 1,2,3,4,7,8-HxCDF | pg/g | NA | NA | NA | NA |
| 1,2,3,6,7,8-HxCDD | pg/g | NA | NA | NA | NA |
| 1,2,3,6,7,8-HxCDF | pg/g | NA | NA | NA | NA |
| 1,2,3,7,8,9-HxCDD | pg/g | NA | NA | NA | NA |
| 1,2,3,7,8,9-HxCDF | pg/g | NA | NA | NA | NA |
| 1,2,3,7,8-PeCDD | pg/g | NA | NA | NA | NA |
| 1,2,3,7,8-PeCDF | pg/g | NA | NA | NA | NA |
| 2,3,4,6,7,8-HxCDF | pg/g | NA | NA | NA | NA |
| 2,3,4,7,8-PeCDF | pg/g | NA | NA | NA | NA |
| 2,3,7,8-TCDD | pg/g | NA | NA | NA | NA |
| 2,3,7,8-TCDF | pg/g | NA | NA | NA | NA |
| EPA Methods 3550/8270 | | | | | |
| 1,2,4-Trichlorobenzene | mg/Kg(ppm) | ND(0.30) | ND(0.60) | ND(0.60) | ND(3.00) |
| 1,2-Dichlorobenzene | mg/Kg(ppm) | ND(0.30) | ND(0.60) | ND(0.60) | ND(3.00) |
| 1,3-Dichlorobenzene | mg/Kg(ppm) | ND(0.30) | ND(0.60) | ND(0.60) | ND(3.00) |
| 1,4-Dichlorobenzene | mg/Kg(ppm) | ND(0.30) | ND(0.60) | ND(0.60) | ND(3.00) |
| 2,4,5-Trichlorophenol | mg/Kg(ppm) | ND(0.30) | ND(0.60) | ND(0.60) | ND(3.00) |
| 2,4,6-Trichlorophenol | mg/Kg(ppm) | ND(0.30) | ND(0.60) | ND(0.60) | ND(3.00) |
| 2,4-Dichlorophenol | mg/Kg(ppm) | ND(0.30) | ND(0.60) | ND(0.60) | ND(3.00) |
| 2,4-Dimethylphenol | mg/Kg(ppm) | ND(0.30) | ND(0.60) | ND(0.60) | ND(3.00) |
| 2,4-Dinitrophenol | mg/Kg(ppm) | ND(2.00) | ND(4.00) | ND(4.00) | ND(20.00) |
| 2,4-Dinitrotoluene | mg/Kg(ppm) | ND(0.30) | ND(0.60) | ND(0.60) | ND(3.00) |
| 2,6-Dinitrotoluene | mg/Kg(ppm) | ND(0.30) | ND(0.60) | ND(0.60) | ND(3.00) |
| 2-Chloronaphthalene | mg/Kg(ppm) | ND(0.30) | ND(0.60) | ND(0.60) | ND(3.00) |
| 2-Chlorophenol | mg/Kg(ppm) | ND(0.30) | ND(0.60) | ND(0.60) | ND(3.00) |
| 2-Methyl-4,6-dinitrophenol | mg/Kg(ppm) | ND(2.00) | ND(4.00) | ND(4.00) | ND(20.00) |
| 2-Methylnaphthalene | mg/Kg(ppm) | ND(0.30) | ND(0.60) | ND(0.60) | ND(3.00) |
| 2-Methylphenol | mg/Kg(ppm) | ND(0.30) | ND(0.60) | ND(0.60) | ND(3.00) |
| 2-Nitroaniline | mg/Kg(ppm) | ND(2.00) | ND(4.00) | ND(4.00) | ND(20.00) |
| 2-Nitrophenol | mg/Kg(ppm) | ND(0.30) | ND(0.60) | ND(0.60) | ND(3.00) |
| 3,3'-Dichlorobenzidine | mg/Kg(ppm) | ND(2.00) | ND(4.00) | ND(4.00) | ND(20.00) |
| 3- and 4-Methylphenol_ | mg/Kg(ppm) | ND(0.30) | ND(0.60) | ND(0.60) | ND(3.00) |
| 3-Nitroaniline | mg/Kg(ppm) | ND(2.00) | ND(4.00) | ND(4.00) | ND(20.00) |
| 4-Bromophenyl Phenyl Ether | mg/Kg(ppm) | ND(0.30) | ND(0.60) | ND(0.60) | ND(3.00) |
| 4-Chloro-3-methylphenol | mg/Kg(ppm) | ND(0.30) | ND(0.60) | ND(0.60) | ND(3.00) |
| 4-Chloroaniline | mg/Kg(ppm) | ND(0.30) | ND(0.60) | ND(0.60) | ND(3.00) |
| 4-Chlorophenyl Phenyl Ether | mg/Kg(ppm) | ND(0.30) | ND(0.60) | ND(0.60) | ND(3.00) |
| 4-Nitroaniline | mg/Kg(ppm) | ND(2.00) | ND(4.00) | ND(4.00) | ND(20.00) |
| 4-Nitrophenol | mg/Kg(ppm) | ND(2.00) | ND(4.00) | ND(4.00) | ND(20.00) |
| Acenaphthene | mg/Kg(ppm) | ND(0.30) | ND(0.60) | ND(0.60) | ND(3.00) |
| Acenaphthylene | mg/Kg(ppm) | ND(0.30) | ND(0.60) | ND(0.60) | ND(3.00) |
| Aniline | mg/Kg(ppm) | ND(1.00) | ND(2.00) | ND(2.00) | ND(10.00) |
| Anthracene | mg/Kg(ppm) | ND(0.30) | ND(0.60) | ND(0.60) | ND(3.00) |
| Benz(a)anthracene | mg/Kg(ppm) | ND(0.30) | ND(0.60) | ND(0.60) | ND(3.00) |
| Benzo(a)pyrene | mg/Kg(ppm) | ND(0.30) | ND(0.60) | ND(0.60) | ND(3.00) |
| Benzo(b)fluoranthene | mg/Kg(ppm) | ND(0.30) | ND(0.60) | ND(0.60) | ND(3.00) |
| Benzo(g,h,i)perylene | mg/Kg(ppm) | ND(0.30) | ND(0.60) | ND(0.60) | ND(3.00) |
| Benzo(k)fluoranthene | mg/Kg(ppm) | ND(0.30) | ND(0.60) | ND(0.60) | ND(3.00) |
| Benzoic Acid | mg/Kg(ppm) | ND(2.00) | ND(4.00) | ND(4.00) | ND(20.00) |
| Benzyl Alcohol | mg/Kg(ppm) | ND(0.30) | ND(0.60) | ND(0.60) | ND(3.00) |
| Bis(2-chloroethoxy)methane | mg/Kg(ppm) | ND(0.30) | ND(0.60) | ND(0.60) | ND(3.00) |
| Bis(2-chloroethyl) Ether | mg/Kg(ppm) | ND(0.30) | ND(0.60) | ND(0.60) | ND(3.00) |

# 1993 OU1, PSE2 Soil Data

| Sample Number | | 93FW0501SL | 93FW0502SL | 93FW0503SL | 93FW0504SL |
|---|---|---|---|---|---|
| Lab Code | | K3794-1 | K3794-2 | K3794-3 | K3794-4 |
| Date | | 6/29/93 | 6/29/93 | 6/29/93 | 6/29/93 |
| Location | | 1599-1SS | 1599-2SS | 1599-3SS | 1599-4SS |
| Depth | | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 |
| Type | | PR | PR | PR | PR |
| Analyte | Units | | | | |
| Bis(2-chloroisopropyl) Ether | mg/Kg(ppm) | ND(0.30) | ND(0.60) | ND(0.60) | ND(3.00) |
| Bis(2-ethylhexyl) Phthalate | mg/Kg(ppm) | ND(0.30) | ND(0.60) | ND(0.60) | ND(3.00) |
| Butylbenzyl Phthalate | mg/Kg(ppm) | ND(0.30) | ND(0.60) | ND(0.60) | ND(3.00) |
| Chrysene | mg/Kg(ppm) | ND(0.30) | ND(0.60) | ND(0.60) | ND(3.00) |
| Di-n-butyl Phthalate | mg/Kg(ppm) | ND(0.30) | ND(0.60) | ND(0.60) | ND(3.00) |
| Di-n-octyl Phthalate | mg/Kg(ppm) | ND(0.30) | ND(0.60) | ND(0.60) | ND(3.00) |
| Dibenz(a,h)anthracene | mg/Kg(ppm) | ND(0.30) | ND(0.60) | ND(0.60) | ND(3.00) |
| Dibenzofuran | mg/Kg(ppm) | ND(0.30) | ND(0.60) | ND(0.60) | ND(3.00) |
| Diethyl Phthalate | mg/Kg(ppm) | ND(0.30) | ND(0.60) | ND(0.60) | ND(3.00) |
| Dimethyl Phthalate | mg/Kg(ppm) | ND(0.30) | ND(0.60) | ND(0.60) | ND(3.00) |
| Fluoranthene | mg/Kg(ppm) | ND(0.30) | ND(0.60) | ND(0.60) | ND(3.00) |
| Fluorene | mg/Kg(ppm) | ND(0.30) | ND(0.60) | ND(0.60) | ND(3.00) |
| Hexachlorobenzene | mg/Kg(ppm) | ND(0.30) | ND(0.60) | ND(0.60) | ND(3.00) |
| Hexachlorobutadiene | mg/Kg(ppm) | ND(0.30) | ND(0.60) | ND(0.60) | ND(3.00) |
| Hexachlorocyclopentadiene | mg/Kg(ppm) | ND(0.30) | ND(0.60) | ND(0.60) | ND(3.00) |
| Hexachloroethane | mg/Kg(ppm) | ND(0.30) | ND(0.60) | ND(0.60) | ND(3.00) |
| Indeno(1,2,3-c,d)pyrene | mg/Kg(ppm) | ND(0.30) | ND(0.60) | ND(0.60) | ND(3.00) |
| Isophorone | mg/Kg(ppm) | ND(0.30) | ND(0.60) | ND(0.60) | ND(3.00) |
| N-Nitrosodi-n-propylamine | mg/Kg(ppm) | ND(0.30) | ND(0.60) | ND(0.60) | ND(3.00) |
| N-Nitrosodimethylamine | mg/Kg(ppm) | ND(2.00) | ND(4.00) | ND(4.00) | ND(20.00) |
| N-Nitrosodiphenylamine | mg/Kg(ppm) | ND(0.30) | ND(0.60) | ND(0.60) | ND(3.00) |
| Naphthalene | mg/Kg(ppm) | ND(0.30) | ND(0.60) | ND(0.60) | ND(3.00) |
| Nitrobenzene | mg/Kg(ppm) | ND(0.30) | ND(0.60) | ND(0.60) | ND(3.00) |
| Pentachlorophenol | mg/Kg(ppm) | ND(2.00) | ND(4.00) | ND(4.00) | ND(20.00) |
| Phenanthrene | mg/Kg(ppm) | ND(0.30) | ND(0.60) | ND(0.60) | ND(3.00) |
| Phenol | mg/Kg(ppm) | ND(0.30) | ND(0.60) | ND(0.60) | ND(3.00) |
| Pyrene | mg/Kg(ppm) | ND(0.30) | ND(0.60) | ND(0.60) | ND(3.00) |
| EPA Methods 3550M /8150M | | | | | |
| 2,4,5-T | mg/Kg(ppm) | NA | NA | NA | NA |
| 2,4,5-TP (Silvex) | mg/Kg(ppm) | NA | NA | NA | NA |
| 2,4-D | mg/Kg(ppm) | NA | NA | NA | NA |
| 2,4-DB | mg/Kg(ppm) | NA | NA | NA | NA |
| Dalapon | mg/Kg(ppm) | NA | NA | NA | NA |
| Dicamba | mg/Kg(ppm) | NA | NA | NA | NA |
| Dichloroprop | mg/Kg(ppm) | NA | NA | NA | NA |
| Dinoseb | mg/Kg(ppm) | NA | NA | NA | NA |
| MCPA | mg/Kg(ppm) | NA | NA | NA | NA |
| MCPP | mg/Kg(ppm) | NA | NA | NA | NA |
| EPA Methods 3540/8080 | | | | | |
| 4,4'-DDD | mg/Kg(ppm) | ND(0.01) | 00.03 | ND(0.01) | 00.03 |
| 4,4'-DDE | mg/Kg(ppm) | ND(0.01) | 00.01 | ND(0.01) | 00.01 |
| 4,4'-DDT | mg/Kg(ppm) | a0.05 | 00.02 | a0.02 | 00.06 |
| Aldrin | mg/Kg(ppm) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Alpha-BHC | mg/Kg(ppm) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Aroclor 1016 | mg/Kg(ppm) | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) |
| Aroclor 1221 | mg/Kg(ppm) | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) |
| Aroclor 1232 | mg/Kg(ppm) | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) |
| Aroclor 1242 | mg/Kg(ppm) | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) |
| Aroclor 1248 | mg/Kg(ppm) | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) |
| Aroclor 1254 | mg/Kg(ppm) | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) |
| Aroclor 1260 | mg/Kg(ppm) | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) |
| Beta-BHC | mg/Kg(ppm) | ND(0.03) | ND(0.03) | ND(0.03) | ND(0.03) |
| Chlordane | mg/Kg(ppm) | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) |
| Delta-BHC | mg/Kg(ppm) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Dieldrin | mg/Kg(ppm) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Endosulfan I | mg/Kg(ppm) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Endosulfan II | mg/Kg(ppm) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Endosulfan Sulfate | mg/Kg(ppm) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Endrin | mg/Kg(ppm) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Endrin Aldehyde | mg/Kg(ppm) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Gamma-BHC (Lindane) | mg/Kg(ppm) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |

# 1993 OU1, PSE2 Soil Data

| Sample Number | | 93FW0501SL | 93FW0502SL | 93FW0503SL | 93FW0504SL |
|---|---|---|---|---|---|
| Lab Code | | K3794-1 | K3794-2 | K3794-3 | K3794-4 |
| Date | | 6/29/93 | 6/29/93 | 6/29/93 | 6/29/93 |
| Location | | 1599-1SS | 1599-2SS | 1599-3SS | 1599-4SS |
| Depth | | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 |
| Type | | PR | PR | PR | PR |
| Analyte | Units | | | | |
| Heptachlor | mg/Kg(ppm) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Heptachlor Epoxide | mg/Kg(ppm) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Methoxychlor | mg/Kg(ppm) | ND(0.02) | ND(0.02) | ND(0.02) | ND(0.02) |
| Toxaphene | mg/Kg(ppm) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| EPA Methods 3540/8140 | | | | | |
| Azinphos Methyl | mg/Kg(ppm) | NA | NA | NA | NA |
| Bolstar | mg/Kg(ppm) | NA | NA | NA | NA |
| Chlorpyrifos | mg/Kg(ppm) | NA | NA | NA | NA |
| Coumaphos | mg/Kg(ppm) | NA | NA | NA | NA |
| Demeton-O,S | mg/Kg(ppm) | NA | NA | NA | NA |
| Diazinon | mg/Kg(ppm) | NA | NA | NA | NA |
| Dichlorvos | mg/Kg(ppm) | NA | NA | NA | NA |
| Disulfoton | mg/Kg(ppm) | NA | NA | NA | NA |
| Ethoprop | mg/Kg(ppm) | NA | NA | NA | NA |
| Fensulfothion | mg/Kg(ppm) | NA | NA | NA | NA |
| Fenthion | mg/Kg(ppm) | NA | NA | NA | NA |
| Malathion | mg/Kg(ppm) | NA | NA | NA | NA |
| Parathion Methyl | mg/Kg(ppm) | NA | NA | NA | NA |
| Merphos | mg/Kg(ppm) | NA | NA | NA | NA |
| Mevinphos | mg/Kg(ppm) | NA | NA | NA | NA |
| Naled | mg/Kg(ppm) | NA | NA | NA | NA |
| Phorate | mg/Kg(ppm) | NA | NA | NA | NA |
| Ronnel | mg/Kg(ppm) | NA | NA | NA | NA |
| Stirophos | mg/Kg(ppm) | NA | NA | NA | NA |
| Tokuthion (Prothiofos) | mg/Kg(ppm) | NA | NA | NA | NA |
| Trichloronate | mg/Kg(ppm) | NA | NA | NA | NA |
| Metals | | | | | |
| Arsenic (7060) | mg/Kg(ppm) | NA | NA | NA | NA |
| Barium (6010) | mg/Kg(ppm) | NA | NA | NA | NA |
| Cadmium (6010) | mg/Kg(ppm) | NA | NA | NA | NA |
| Chromium (6010) | mg/Kg(ppm) | NA | NA | NA | NA |
| Lead (7421) | mg/Kg(ppm) | NA | NA | NA | NA |
| Mercury (7471) | mg/Kg(ppm) | NA | NA | NA | NA |
| Selenium (7740) | mg/Kg(ppm) | NA | NA | NA | NA |
| Silver (6010) | mg/Kg(ppm) | NA | NA | NA | NA |
| EPA Method 8290 | | | | | |
| OCDD | pg/g | NA | NA | NA | NA |
| OCDF | pg/g | NA | NA | NA | NA |
| Total HpCDD | pg/g | NA | NA | NA | NA |
| Total HpCDF | pg/g | NA | NA | NA | NA |
| Total HxCDD | pg/g | NA | NA | NA | NA |
| Total HxCDF | pg/g | NA | NA | NA | NA |
| Total PeCDD | pg/g | NA | NA | NA | NA |
| Total PeCDF | pg/g | NA | NA | NA | NA |
| Total TCDD | pg/g | NA | NA | NA | NA |
| Total TCDF | pg/g | NA | NA | NA | NA |

# 1993 OU1, PSE2 Soil Data

| Sample Number | 93FW0505SL | 93FW0506SL | 93FW0507SL | 93FW0508SL | 93FW0509SL |
|---|---|---|---|---|---|
| Lab Code | K3794-5 | K3794-6 | K3794-7 | K3794-8 | K3794-9 |
| Date | 6/29/93 | 6/29/93 | 6/29/93 | 6/29/93 | 6/29/93 |
| Location | 1599-5SS | 1599-6SS | 1599-7SS | 1599-8SS | 1599-9SS |
| Depth | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 |
| Type | PR | PR | PR | PR | PR |
| Analyte | | | | | |
| EPA Methods 3540/8100 DRO | | | | | |
| DRO | 3500.00 | 1600.00 | 3900.00 | 1100.00 | 3500.00 |
| EPA Methods 5030/8015 GRO | | | | | |
| GRO | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| EPA Method 8290 | | | | | |
| 1,2,3,4,6,7,8-HpCDD | NA | NA | NA | NA | NA |
| 1,2,3,4,6,7,8-HpCDF | NA | NA | NA | NA | NA |
| 1,2,3,4,7,8,9-HpCDF | NA | NA | NA | NA | NA |
| 1,2,3,4,7,8-HxCDD | NA | NA | NA | NA | NA |
| 1,2,3,4,7,8-HxCDF | NA | NA | NA | NA | NA |
| 1,2,3,6,7,8-HxCDD | NA | NA | NA | NA | NA |
| 1,2,3,6,7,8-HxCDF | NA | NA | NA | NA | NA |
| 1,2,3,7,8,9-HxCDD | NA | NA | NA | NA | NA |
| 1,2,3,7,8,9-HxCDF | NA | NA | NA | NA | NA |
| 1,2,3,7,8-PeCDD | NA | NA | NA | NA | NA |
| 1,2,3,7,8-PeCDF | NA | NA | NA | NA | NA |
| 2,3,4,6,7,8-HxCDF | NA | NA | NA | NA | NA |
| 2,3,4,7,8-PeCDF | NA | NA | NA | NA | NA |
| 2,3,7,8-TCDD | NA | NA | NA | NA | NA |
| 2,3,7,8-TCDF | NA | NA | NA | NA | NA |
| EPA Methods 3550/8270 | | | | | |
| 1,2,4-Trichlorobenzene | ND(3.00) | ND(0.30) | ND(2.00) | ND(0.30) | ND(3.00) |
| 1,2-Dichlorobenzene | ND(3.00) | ND(0.30) | ND(2.00) | ND(0.30) | ND(3.00) |
| 1,3-Dichlorobenzene | ND(3.00) | ND(0.30) | ND(2.00) | ND(0.30) | ND(3.00) |
| 1,4-Dichlorobenzene | ND(3.00) | ND(0.30) | ND(2.00) | ND(0.30) | ND(3.00) |
| 2,4,5-Trichlorophenol | ND(3.00) | ND(0.30) | ND(2.00) | ND(0.30) | ND(3.00) |
| 2,4,6-Trichlorophenol | ND(3.00) | ND(0.30) | ND(2.00) | ND(0.30) | ND(3.00) |
| 2,4-Dichlorophenol | ND(3.00) | ND(0.30) | ND(2.00) | ND(0.30) | ND(3.00) |
| 2,4-Dimethylphenol | ND(3.00) | ND(0.30) | ND(2.00) | ND(0.30) | ND(3.00) |
| 2,4-Dinitrophenol | ND(20.00) | ND(2.00) | ND(10.00) | ND(2.00) | ND(20.00) |
| 2,4-Dinitrotoluene | ND(3.00) | ND(0.30) | ND(2.00) | ND(0.30) | ND(3.00) |
| 2,6-Dinitrotoluene | ND(3.00) | ND(0.30) | ND(2.00) | ND(0.30) | ND(3.00) |
| 2-Chloronaphthalene | ND(3.00) | ND(0.30) | ND(2.00) | ND(0.30) | ND(3.00) |
| 2-Chlorophenol | ND(3.00) | ND(0.30) | ND(2.00) | ND(0.30) | ND(3.00) |
| 2-Methyl-4,6-dinitrophenol | ND(20.00) | ND(2.00) | ND(10.00) | ND(2.00) | ND(20.00) |
| 2-Methylnaphthalene | ND(3.00) | ND(0.30) | ND(2.00) | ND(0.30) | ND(3.00) |
| 2-Methylphenol | ND(3.00) | ND(0.30) | ND(2.00) | ND(0.30) | ND(3.00) |
| 2-Nitroaniline | ND(20.00) | ND(2.00) | ND(10.00) | ND(2.00) | ND(20.00) |
| 2-Nitrophenol | ND(3.00) | ND(0.30) | ND(2.00) | ND(0.30) | ND(3.00) |
| 3,3'-Dichlorobenzidine | ND(20.00) | ND(2.00) | ND(10.00) | ND(2.00) | ND(20.00) |
| 3- and 4-Methylphenol_ | ND(3.00) | ND(0.30) | ND(2.00) | ND(0.30) | ND(3.00) |
| 3-Nitroaniline | ND(20.00) | ND(2.00) | ND(10.00) | ND(2.00) | ND(20.00) |
| 4-Bromophenyl Phenyl Ether | ND(3.00) | ND(0.30) | ND(2.00) | ND(0.30) | ND(3.00) |
| 4-Chloro-3-methylphenol | ND(3.00) | ND(0.30) | ND(2.00) | ND(0.30) | ND(3.00) |
| 4-Chloroaniline | ND(3.00) | ND(0.30) | ND(2.00) | ND(0.30) | ND(3.00) |
| 4-Chlorophenyl Phenyl Ether | ND(3.00) | ND(0.30) | ND(2.00) | ND(0.30) | ND(3.00) |
| 4-Nitroaniline | ND(20.00) | ND(2.00) | ND(10.00) | ND(2.00) | ND(20.00) |
| 4-Nitrophenol | ND(20.00) | ND(2.00) | ND(10.00) | ND(2.00) | ND(20.00) |
| Acenaphthene | ND(3.00) | ND(0.30) | ND(2.00) | ND(0.30) | ND(3.00) |
| Acenaphthylene | ND(3.00) | ND(0.30) | ND(2.00) | ND(0.30) | ND(3.00) |
| Aniline | ND(10.00) | ND(1.00) | ND(5.00) | ND(1.00) | ND(10.00) |
| Anthracene | ND(3.00) | ND(0.30) | ND(2.00) | ND(0.30) | ND(3.00) |
| Benz(a)anthracene | ND(3.00) | ND(0.30) | ND(2.00) | ND(0.30) | ND(3.00) |
| Benzo(a)pyrene | ND(3.00) | ND(0.30) | ND(2.00) | ND(0.30) | ND(3.00) |
| Benzo(b)fluoranthene | ND(3.00) | ND(0.30) | ND(2.00) | ND(0.30) | ND(3.00) |
| Benzo(g,h,i)perylene | ND(3.00) | ND(0.30) | ND(2.00) | ND(0.30) | ND(3.00) |
| Benzo(k)fluoranthene | ND(3.00) | ND(0.30) | ND(2.00) | ND(0.30) | ND(3.00) |
| Benzoic Acid | ND(20.00) | ND(2.00) | ND(10.00) | ND(2.00) | ND(20.00) |
| Benzyl Alcohol | ND(3.00) | ND(0.30) | ND(2.00) | ND(0.30) | ND(3.00) |
| Bis(2-chloroethoxy)methane | ND(3.00) | ND(0.30) | ND(2.00) | ND(0.30) | ND(3.00) |
| Bis(2-chloroethyl) Ether | ND(3.00) | ND(0.30) | ND(2.00) | ND(0.30) | ND(3.00) |

# 1993 OU1, PSE2 Soil Data

| Sample Number | 93FW0505SL | 93FW0506SL | 93FW0507SL | 93FW0508SL | 93FW0509SL |
|---|---|---|---|---|---|
| Lab Code | K3794-5 | K3794-6 | K3794-7 | K3794-8 | K3794-9 |
| Date | 6/29/93 | 6/29/93 | 6/29/93 | 6/29/93 | 6/29/93 |
| Location | 1599-5SS | 1599-6SS | 1599-7SS | 1599-8SS | 1599-9SS |
| Depth | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 |
| Type | PR | PR | PR | PR | PR |
| Analyte | | | | | |
| Bis(2-chloroisopropyl) Ether | ND(3.00) | ND(0.30) | ND(2.00) | ND(0.30) | ND(3.00) |
| Bis(2-ethylhexyl) Phthalate | ND(3.00) | ND(0.30) | ND(2.00) | ND(0.30) | ND(3.00) |
| Butylbenzyl Phthalate | ND(3.00) | ND(0.30) | ND(2.00) | ND(0.30) | ND(3.00) |
| Chrysene | ND(3.00) | ND(0.30) | ND(2.00) | ND(0.30) | ND(3.00) |
| Di-n-butyl Phthalate | ND(3.00) | ND(0.30) | ND(2.00) | ND(0.30) | ND(3.00) |
| Di-n-octyl Phthalate | ND(3.00) | ND(0.30) | ND(2.00) | ND(0.30) | ND(3.00) |
| Dibenz(a,h)anthracene | ND(3.00) | ND(0.30) | ND(2.00) | ND(0.30) | ND(3.00) |
| Dibenzofuran | ND(3.00) | ND(0.30) | ND(2.00) | ND(0.30) | ND(3.00) |
| Diethyl Phthalate | ND(3.00) | ND(0.30) | ND(2.00) | ND(0.30) | ND(3.00) |
| Dimethyl Phthalate | ND(3.00) | ND(0.30) | ND(2.00) | ND(0.30) | ND(3.00) |
| Fluoranthene | ND(3.00) | ND(0.30) | ND(2.00) | ND(0.30) | ND(3.00) |
| Fluorene | ND(3.00) | ND(0.30) | ND(2.00) | ND(0.30) | ND(3.00) |
| Hexachlorobenzene | ND(3.00) | ND(0.30) | ND(2.00) | ND(0.30) | ND(3.00) |
| Hexachlorobutadiene | ND(3.00) | ND(0.30) | ND(2.00) | ND(0.30) | ND(3.00) |
| Hexachlorocyclopentadiene | ND(3.00) | ND(0.30) | ND(2.00) | ND(0.30) | ND(3.00) |
| Hexachloroethane | ND(3.00) | ND(0.30) | ND(2.00) | ND(0.30) | ND(3.00) |
| Indeno(1,2,3-c,d)pyrene | ND(3.00) | ND(0.30) | ND(2.00) | ND(0.30) | ND(3.00) |
| Isophorone | ND(3.00) | ND(0.30) | ND(2.00) | ND(0.30) | ND(3.00) |
| N-Nitrosodi-n-propylamine | ND(3.00) | ND(0.30) | ND(2.00) | ND(0.30) | ND(3.00) |
| N-Nitrosodimethylamine | ND(20.00) | ND(2.00) | ND(10.00) | ND(2.00) | ND(20.00) |
| N-Nitrosodiphenylamine | ND(3.00) | ND(0.30) | ND(2.00) | ND(0.30) | ND(3.00) |
| Naphthalene | ND(3.00) | ND(0.30) | ND(2.00) | ND(0.30) | ND(3.00) |
| Nitrobenzene | ND(3.00) | ND(0.30) | ND(2.00) | ND(0.30) | ND(3.00) |
| Pentachlorophenol | ND(20.00) | ND(2.00) | ND(10.00) | ND(2.00) | ND(20.00) |
| Phenanthrene | ND(3.00) | ND(0.30) | ND(2.00) | ND(0.30) | ND(3.00) |
| Phenol | ND(3.00) | ND(0.30) | ND(2.00) | ND(0.30) | ND(3.00) |
| Pyrene | ND(3.00) | ND(0.30) | ND(2.00) | ND(0.30) | ND(3.00) |
| EPA Methods 3550M /8150M | | | | | |
| 2,4,5-T | NA | NA | NA | NA | NA |
| 2,4,5-TP (Silvex) | NA | NA | NA | NA | NA |
| 2,4-D | NA | NA | NA | NA | NA |
| 2,4-DB | NA | NA | NA | NA | NA |
| Dalapon | NA | NA | NA | NA | NA |
| Dicamba | NA | NA | NA | NA | NA |
| Dichloroprop | NA | NA | NA | NA | NA |
| Dinoseb | NA | NA | NA | NA | NA |
| MCPA | NA | NA | NA | NA | NA |
| MCPP | NA | NA | NA | NA | NA |
| EPA Methods 3540/8080 | | | | | |
| 4,4'-DDD | 00.02 | ND(0.01) | ND(0.01) | ND(0.01) | 00.01 |
| 4,4'-DDE | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| 4,4'-DDT | a0.04 | a0.01 | a0.02 | ND(0.01) | 00.02 |
| Aldrin | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Alpha-BHC | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Aroclor 1016 | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) |
| Aroclor 1221 | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) |
| Aroclor 1232 | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) |
| Aroclor 1242 | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) |
| Aroclor 1248 | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) |
| Aroclor 1254 | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) |
| Aroclor 1260 | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) |
| Beta-BHC | ND(0.03) | ND(0.03) | ND(0.03) | ND(0.03) | ND(0.03) |
| Chlordane | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) |
| Delta-BHC | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Dieldrin | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Endosulfan I | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Endosulfan II | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Endosulfan Sulfate | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Endrin | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Endrin Aldehyde | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Gamma-BHC (Lindane) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |

# 1993 OU1, PSE2 Soil Data

| Sample Number | 93FW0505SL | 93FW0506SL | 93FW0507SL | 93FW0508SL | 93FW0509SL |
|---|---|---|---|---|---|
| Lab Code | K3794-5 | K3794-6 | K3794-7 | K3794-8 | K3794-9 |
| Date | 6/29/93 | 6/29/93 | 6/29/93 | 6/29/93 | 6/29/93 |
| Location | 1599-5SS | 1599-6SS | 1599-7SS | 1599-8SS | 1599-9SS |
| Depth | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 |
| Type | PR | PR | PR | PR | PR |
| Analyte | | | | | |
| Heptachlor | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Heptachlor Epoxide | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Methoxychlor | ND(0.02) | ND(0.02) | ND(0.02) | ND(0.02) | ND(0.02) |
| Toxaphene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| EPA Methods 3540/8140 | | | | | |
| Azinphos Methyl | NA | NA | NA | NA | NA |
| Bolstar | NA | NA | NA | NA | NA |
| Chlorpyrifos | NA | NA | NA | NA | NA |
| Coumaphos | NA | NA | NA | NA | NA |
| Demeton-O,S | NA | NA | NA | NA | NA |
| Diazinon | NA | NA | NA | NA | NA |
| Dichlorvos | NA | NA | NA | NA | NA |
| Disulfoton | NA | NA | NA | NA | NA |
| Ethoprop | NA | NA | NA | NA | NA |
| Fensulfothion | NA | NA | NA | NA | NA |
| Fenthion | NA | NA | NA | NA | NA |
| Malathion | NA | NA | NA | NA | NA |
| Parathion Methyl | NA | NA | NA | NA | NA |
| Merphos | NA | NA | NA | NA | NA |
| Mevinphos | NA | NA | NA | NA | NA |
| Naled | NA | NA | NA | NA | NA |
| Phorate | NA | NA | NA | NA | NA |
| Ronnel | NA | NA | NA | NA | NA |
| Stirophos | NA | NA | NA | NA | NA |
| Tokuthion (Prothiofos) | NA | NA | NA | NA | NA |
| Trichloronate | NA | NA | NA | NA | NA |
| Metals | | | | | |
| Arsenic (7060) | NA | NA | NA | NA | NA |
| Barium (6010) | NA | NA | NA | NA | NA |
| Cadmium (6010) | NA | NA | NA | NA | NA |
| Chromium (6010) | NA | NA | NA | NA | NA |
| Lead (7421) | NA | NA | NA | NA | NA |
| Mercury (7471) | NA | NA | NA | NA | NA |
| Selenium (7740) | NA | NA | NA | NA | NA |
| Silver (6010) | NA | NA | NA | NA | NA |
| EPA Method 8290 | | | | | |
| OCDD | NA | NA | NA | NA | NA |
| OCDF | NA | NA | NA | NA | NA |
| Total HpCDD | NA | NA | NA | NA | NA |
| Total HpCDF | NA | NA | NA | NA | NA |
| Total HxCDD | NA | NA | NA | NA | NA |
| Total HxCDF | NA | NA | NA | NA | NA |
| Total PeCDD | NA | NA | NA | NA | NA |
| Total PeCDF | NA | NA | NA | NA | NA |
| Total TCDD | NA | NA | NA | NA | NA |
| Total TCDF | NA | NA | NA | NA | NA |

# 1993 OU1, PSE2 Soil Data

| Sample Number | 93FW0510SL | 93FW0511SL | 93FW0513SL | 93FW0514SL | 93FW0515SL |
|---|---|---|---|---|---|
| Lab Code | K3794-10 | K3794-15 | K3794-16 | K3794-17 | K3794-18 |
| Date | 6/29/93 | 6/29/93 | 6/29/93 | 6/29/93 | 6/29/93 |
| Location | 1599-10SS | 1599-10SS | 1599-11SS | 1599-12SS | 1599-13SS |
| Depth | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 |
| Type | PR | QC | PR | PR | PR |
| Analyte | | | | | |
| EPA Methods 3540/8100 DRO | | | | | |
| DRO | 530.00 | 570.00 | 500.00 | 540.00 | 1600.00 |
| EPA Methods 5030/8015 GRO | | | | | |
| GRO | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| EPA Method 8290 | | | | | |
| 1,2,3,4,6,7,8-HpCDD | NA | NA | NA | 18.00 | 6.90 |
| 1,2,3,4,6,7,8-HpCDF | NA | NA | NA | 0.18 | ND(0.84) |
| 1,2,3,4,7,8,9-HpCDF | NA | NA | NA | ND(0.19) | ND(0.10) |
| 1,2,3,4,7,8-HxCDD | NA | NA | NA | ND(0.94) | ND(0.81) |
| 1,2,3,4,7,8-HxCDF | NA | NA | NA | ND(0.38) | ND(0.51) |
| 1,2,3,6,7,8-HxCDD | NA | NA | NA | ND(1.00) | ND(0.79) |
| 1,2,3,6,7,8-HxCDF | NA | NA | NA | ND(0.37) | ND(0.49) |
| 1,2,3,7,8,9-HxCDD | NA | NA | NA | ND(0.94) | ND(0.79) |
| 1,2,3,7,8,9-HxCDF | NA | NA | NA | ND(0.44) | ND(0.69) |
| 1,2,3,7,8-PeCDD | NA | NA | NA | ND(0.25) | ND(0.35) |
| 1,2,3,7,8-PeCDF | NA | NA | NA | ND(0.30) | ND(0.41) |
| 2,3,4,6,7,8-HxCDF | NA | NA | NA | ND(0.37) | ND(0.53) |
| 2,3,4,7,8-PeCDF | NA | NA | NA | ND(0.29) | ND(0.42) |
| 2,3,7,8-TCDD | NA | NA | NA | ND(0.16) | ND(0.13) |
| 2,3,7,8-TCDF | NA | NA | NA | ND(0.18) | ND(0.21) |
| EPA Methods 3550/8270 | | | | | |
| 1,2,4-Trichlorobenzene | ND(0.60) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| 1,2-Dichlorobenzene | ND(0.60) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| 1,3-Dichlorobenzene | ND(0.60) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| 1,4-Dichlorobenzene | ND(0.60) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| 2,4,5-Trichlorophenol | ND(0.60) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| 2,4,6-Trichlorophenol | ND(0.60) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| 2,4-Dichlorophenol | ND(0.60) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| 2,4-Dimethylphenol | ND(0.60) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| 2,4-Dinitrophenol | ND(4.00) | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) |
| 2,4-Dinitrotoluene | ND(0.60) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| 2,6-Dinitrotoluene | ND(0.60) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| 2-Chloronaphthalene | ND(0.60) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| 2-Chlorophenol | ND(0.60) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| 2-Methyl-4,6-dinitrophenol | ND(4.00) | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) |
| 2-Methylnaphthalene | ND(0.60) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| 2-Methylphenol | ND(0.60) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| 2-Nitroaniline | ND(4.00) | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) |
| 2-Nitrophenol | ND(0.60) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| 3,3'-Dichlorobenzidine | ND(4.00) | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) |
| 3- and 4-Methylphenol_ | ND(0.60) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| 3-Nitroaniline | ND(4.00) | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) |
| 4-Bromophenyl Phenyl Ether | ND(0.60) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| 4-Chloro-3-methylphenol | ND(0.60) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| 4-Chloroaniline | ND(0.60) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| 4-Chlorophenyl Phenyl Ether | ND(0.60) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| 4-Nitroaniline | ND(4.00) | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) |
| 4-Nitrophenol | ND(4.00) | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) |
| Acenaphthene | ND(0.60) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Acenaphthylene | ND(0.60) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Aniline | ND(2.00) | ND(1.00) | ND(1.00) | ND(1.00) | ND(1.00) |
| Anthracene | ND(0.60) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Benz(a)anthracene | ND(0.60) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Benzo(a)pyrene | ND(0.60) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Benzo(b)fluoranthene | ND(0.60) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Benzo(g,h,i)perylene | ND(0.60) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Benzo(k)fluoranthene | ND(0.60) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Benzoic Acid | ND(4.00) | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) |
| Benzyl Alcohol | ND(0.60) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Bis(2-chloroethoxy)methane | ND(0.60) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Bis(2-chloroethyl) Ether | ND(0.60) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |

# 1993 OU1, PSE2 Soil Data

| Sample Number | 93FW0510SL | 93FW0511SL | 93FW0513SL | 93FW0514SL | 93FW0515SL |
|---|---|---|---|---|---|
| Lab Code | K3794-10 | K3794-15 | K3794-16 | K3794-17 | K3794-18 |
| Date | 6/29/93 | 6/29/93 | 6/29/93 | 6/29/93 | 6/29/93 |
| Location | 1599-10SS | 1599-10SS | 1599-11SS | 1599-12SS | 1599-13SS |
| Depth | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 |
| Type | PR | QC | PR | PR | PR |
| Analyte | | | | | |
| Bis(2-chloroisopropyl) Ether | ND(0.60) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Bis(2-ethylhexyl) Phthalate | ND(0.60) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Butylbenzyl Phthalate | ND(0.60) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Chrysene | ND(0.60) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Di-n-butyl Phthalate | ND(0.60) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Di-n-octyl Phthalate | ND(0.60) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Dibenz(a,h)anthracene | ND(0.60) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Dibenzofuran | ND(0.60) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Diethyl Phthalate | ND(0.60) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Dimethyl Phthalate | ND(0.60) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Fluoranthene | ND(0.60) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Fluorene | ND(0.60) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Hexachlorobenzene | ND(0.60) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Hexachlorobutadiene | ND(0.60) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Hexachlorocyclopentadiene | ND(0.60) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Hexachloroethane | ND(0.60) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Indeno(1,2,3-c,d)pyrene | ND(0.60) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Isophorone | ND(0.60) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| N-Nitrosodi-n-propylamine | ND(0.60) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| N-Nitrosodimethylamine | ND(4.00) | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) |
| N-Nitrosodiphenylamine | ND(0.60) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Naphthalene | ND(0.60) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Nitrobenzene | ND(0.60) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Pentachlorophenol | ND(4.00) | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) |
| Phenanthrene | ND(0.60) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Phenol | ND(0.60) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Pyrene | ND(0.60) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| EPA Methods 3550M /8150M | | | | | |
| 2,4,5-T | NA | NA | NA | NA | NA |
| 2,4,5-TP (Silvex) | NA | NA | NA | NA | NA |
| 2,4-D | NA | NA | NA | NA | NA |
| 2,4-DB | NA | NA | NA | NA | NA |
| Dalapon | NA | NA | NA | NA | NA |
| Dicamba | NA | NA | NA | NA | NA |
| Dichloroprop | NA | NA | NA | NA | NA |
| Dinoseb | NA | NA | NA | NA | NA |
| MCPA | NA | NA | NA | NA | NA |
| MCPP | NA | NA | NA | NA | NA |
| EPA Methods 3540/8080 | | | | | |
| 4,4'-DDD | ND(0.01) | 00.01 | 00.03 | 00.02 | 00.01 |
| 4,4'-DDE | ND(0.01) | 00.02 | 00.02 | 00.02 | 00.01 |
| 4,4'-DDT | a0.03 | 00.10 | 00.09 | 00.15 | 00.06 |
| Aldrin | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Alpha-BHC | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Aroclor 1016 | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) |
| Aroclor 1221 | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) |
| Aroclor 1232 | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) |
| Aroclor 1242 | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) |
| Aroclor 1248 | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) |
| Aroclor 1254 | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) |
| Aroclor 1260 | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) |
| Beta-BHC | ND(0.03) | ND(0.03) | ND(0.03) | ND(0.03) | ND(0.03) |
| Chlordane | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) |
| Delta-BHC | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Dieldrin | ND(0.01) | ND(0.01) | ND(0.01) | 00.01 | ND(0.01) |
| Endosulfan I | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Endosulfan II | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Endosulfan Sulfate | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Endrin | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Endrin Aldehyde | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Gamma-BHC (Lindane) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |

# 1993 OU1, PSE2 Soil Data

| Sample Number | 93FW0510SL | 93FW0511SL | 93FW0513SL | 93FW0514SL | 93FW0515SL |
|---|---|---|---|---|---|
| Lab Code | K3794-10 | K3794-15 | K3794-16 | K3794-17 | K3794-18 |
| Date | 6/29/93 | 6/29/93 | 6/29/93 | 6/29/93 | 6/29/93 |
| Location | 1599-10SS | 1599-10SS | 1599-11SS | 1599-12SS | 1599-13SS |
| Depth | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 |
| Type | PR | QC | PR | PR | PR |
| Analyte | | | | | |
| Heptachlor | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Heptachlor Epoxide | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Methoxychlor | ND(0.02) | ND(0.02) | ND(0.02) | ND(0.02) | ND(0.02) |
| Toxaphene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| EPA Methods 3540/8140 | | | | | |
| Azinphos Methyl | NA | NA | NA | NA | NA |
| Bolstar | NA | NA | NA | NA | NA |
| Chlorpyrifos | NA | NA | NA | NA | NA |
| Coumaphos | NA | NA | NA | NA | NA |
| Demeton-O,S | NA | NA | NA | NA | NA |
| Diazinon | NA | NA | NA | NA | NA |
| Dichlorvos | NA | NA | NA | NA | NA |
| Disulfoton | NA | NA | NA | NA | NA |
| Ethoprop | NA | NA | NA | NA | NA |
| Fensulfothion | NA | NA | NA | NA | NA |
| Fenthion | NA | NA | NA | NA | NA |
| Malathion | NA | NA | NA | NA | NA |
| Parathion Methyl | NA | NA | NA | NA | NA |
| Merphos | NA | NA | NA | NA | NA |
| Mevinphos | NA | NA | NA | NA | NA |
| Naled | NA | NA | NA | NA | NA |
| Phorate | NA | NA | NA | NA | NA |
| Ronnel | NA | NA | NA | NA | NA |
| Stirophos | NA | NA | NA | NA | NA |
| Tokuthion (Prothiofos) | NA | NA | NA | NA | NA |
| Trichloronate | NA | NA | NA | NA | NA |
| Metals | | | | | |
| Arsenic (7060) | NA | NA | NA | NA | NA |
| Barium (6010) | NA | NA | NA | NA | NA |
| Cadmium (6010) | NA | NA | NA | NA | NA |
| Chromium (6010) | NA | NA | NA | NA | NA |
| Lead (7421) | NA | NA | NA | NA | NA |
| Mercury (7471) | NA | NA | NA | NA | NA |
| Selenium (7740) | NA | NA | NA | NA | NA |
| Silver (6010) | NA | NA | NA | NA | NA |
| EPA Method 8290 | | | | | |
| OCDD | NA | NA | NA | 88.00 | 40.00 |
| OCDF | NA | NA | NA | 1.70 | ND(0.86) |
| Total HpCDD | NA | NA | NA | 32.00 | 13.00 |
| Total HpCDF | NA | NA | NA | 4.00 | ND(0.10) |
| Total HxCDD | NA | NA | NA | 5.30 | 2.20 |
| Total HxCDF | NA | NA | NA | 3.40 | ND(0.69) |
| Total PeCDD | NA | NA | NA | ND(0.25) | ND(0.35) |
| Total PeCDF | NA | NA | NA | 1.40 | ND(0.54) |
| Total TCDD | NA | NA | NA | ND(0.16) | ND(0.13) |
| Total TCDF | NA | NA | NA | 0.27 | ND(0.21) |

# 1993 OU1, PSE2 Soil Data

| Sample Number | 93FW0516SL | 93FW0517SL | 93FW0518SL | 93FW0519SL | 93FW0520SL |
|---|---|---|---|---|---|
| Lab Code | K3794-19 | K3794-20 | K3794-21 | K3794-22 | K3794-23 |
| Date | 6/29/93 | 6/29/93 | 6/29/93 | 6/29/93 | 6/29/93 |
| Location | 1599-14SS | 1599-15SS | 1599-16SS | 1599-17SS | 1599-18SS |
| Depth | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 |
| Type | PR | PR | PR | PR | PR |
| Analyte | | | | | |
| EPA Methods 3540/8100 DRO | | | | | |
| DRO | 650.00 | 1200.00 | 1600.00 | 1600.00 | 1400.00 |
| EPA Methods 5030/8015 GRO | | | | | |
| GRO | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| EPA Method 8290 | | | | | |
| 1,2,3,4,6,7,8-HpCDD | 20.00 | 35.00 | NA | NA | NA |
| 1,2,3,4,6,7,8-HpCDF | 2.50 | 4.90 | NA | NA | NA |
| 1,2,3,4,7,8,9-HpCDF | ND(0.47) | ND(0.42) | NA | NA | NA |
| 1,2,3,4,7,8-HxCDD | ND(0.79) | ND(0.65) | NA | NA | NA |
| 1,2,3,4,7,8-HxCDF | ND(0.30) | ND(0.41) | NA | NA | NA |
| 1,2,3,6,7,8-HxCDD | 1.40 | 2.80 | NA | NA | NA |
| 1,2,3,6,7,8-HxCDF | ND(0.30) | ND(0.40) | NA | NA | NA |
| 1,2,3,7,8,9-HxCDD | ND(0.76) | ND(0.63) | NA | NA | NA |
| 1,2,3,7,8,9-HxCDF | ND(0.39) | ND(0.51) | NA | NA | NA |
| 1,2,3,7,8-PeCDD | ND(0.24) | ND(0.28) | NA | NA | NA |
| 1,2,3,7,8-PeCDF | ND(0.38) | ND(0.49) | NA | NA | NA |
| 2,3,4,6,7,8-HxCDF | ND(0.31) | ND(0.42) | NA | NA | NA |
| 2,3,4,7,8-PeCDF | ND(0.38) | ND(0.49) | NA | NA | NA |
| 2,3,7,8-TCDD | ND(0.19) | ND(0.17) | NA | NA | NA |
| 2,3,7,8-TCDF | ND(0.21) | ND(0.19) | NA | NA | NA |
| EPA Methods 3550/8270 | | | | | |
| 1,2,4-Trichlorobenzene | ND(0.30) | ND(0.30) | ND(0.60) | ND(0.30) | ND(0.30) |
| 1,2-Dichlorobenzene | ND(0.30) | ND(0.30) | ND(0.60) | ND(0.30) | ND(0.30) |
| 1,3-Dichlorobenzene | ND(0.30) | ND(0.30) | ND(0.60) | ND(0.30) | ND(0.30) |
| 1,4-Dichlorobenzene | ND(0.30) | ND(0.30) | ND(0.60) | ND(0.30) | ND(0.30) |
| 2,4,5-Trichlorophenol | ND(0.30) | ND(0.30) | ND(0.60) | ND(0.30) | ND(0.30) |
| 2,4,6-Trichlorophenol | ND(0.30) | ND(0.30) | ND(0.60) | ND(0.30) | ND(0.30) |
| 2,4-Dichlorophenol | ND(0.30) | ND(0.30) | ND(0.60) | ND(0.30) | ND(0.30) |
| 2,4-Dimethylphenol | ND(0.30) | ND(0.30) | ND(0.60) | ND(0.30) | ND(0.30) |
| 2,4-Dinitrophenol | ND(2.00) | ND(2.00) | ND(4.00) | ND(2.00) | ND(2.00) |
| 2,4-Dinitrotoluene | ND(0.30) | ND(0.30) | ND(0.60) | ND(0.30) | ND(0.30) |
| 2,6-Dinitrotoluene | ND(0.30) | ND(0.30) | ND(0.60) | ND(0.30) | ND(0.30) |
| 2-Chloronaphthalene | ND(0.30) | ND(0.30) | ND(0.60) | ND(0.30) | ND(0.30) |
| 2-Chlorophenol | ND(0.30) | ND(0.30) | ND(0.60) | ND(0.30) | ND(0.30) |
| 2-Methyl-4,6-dinitrophenol | ND(2.00) | ND(2.00) | ND(4.00) | ND(2.00) | ND(2.00) |
| 2-Methylnaphthalene | ND(0.30) | ND(0.30) | ND(0.60) | ND(0.30) | ND(0.30) |
| 2-Methylphenol | ND(0.30) | ND(0.30) | ND(0.60) | ND(0.30) | ND(0.30) |
| 2-Nitroaniline | ND(2.00) | ND(2.00) | ND(4.00) | ND(2.00) | ND(2.00) |
| 2-Nitrophenol | ND(0.30) | ND(0.30) | ND(0.60) | ND(0.30) | ND(0.30) |
| 3,3'-Dichlorobenzidine | ND(2.00) | ND(2.00) | ND(4.00) | ND(2.00) | ND(2.00) |
| 3- and 4-Methylphenol_ | ND(0.30) | ND(0.30) | ND(0.60) | ND(0.30) | ND(0.30) |
| 3-Nitroaniline | ND(2.00) | ND(2.00) | ND(4.00) | ND(2.00) | ND(2.00) |
| 4-Bromophenyl Phenyl Ether | ND(0.30) | ND(0.30) | ND(0.60) | ND(0.30) | ND(0.30) |
| 4-Chloro-3-methylphenol | ND(0.30) | ND(0.30) | ND(0.60) | ND(0.30) | ND(0.30) |
| 4-Chloroaniline | ND(0.30) | ND(0.30) | ND(0.60) | ND(0.30) | ND(0.30) |
| 4-Chlorophenyl Phenyl Ether | ND(0.30) | ND(0.30) | ND(0.60) | ND(0.30) | ND(0.30) |
| 4-Nitroaniline | ND(2.00) | ND(2.00) | ND(4.00) | ND(2.00) | ND(2.00) |
| 4-Nitrophenol | ND(2.00) | ND(2.00) | ND(4.00) | ND(2.00) | ND(2.00) |
| Acenaphthene | ND(0.30) | ND(0.30) | ND(0.60) | ND(0.30) | ND(0.30) |
| Acenaphthylene | ND(0.30) | ND(0.30) | ND(0.60) | ND(0.30) | ND(0.30) |
| Aniline | ND(1.00) | ND(1.00) | ND(2.00) | ND(1.00) | ND(1.00) |
| Anthracene | ND(0.30) | ND(0.30) | ND(0.60) | ND(0.30) | ND(0.30) |
| Benz(a)anthracene | ND(0.30) | ND(0.30) | ND(0.60) | ND(0.30) | ND(0.30) |
| Benzo(a)pyrene | ND(0.30) | ND(0.30) | ND(0.60) | ND(0.30) | ND(0.30) |
| Benzo(b)fluoranthene | ND(0.30) | ND(0.30) | ND(0.60) | ND(0.30) | ND(0.30) |
| Benzo(g,h,i)perylene | ND(0.30) | ND(0.30) | ND(0.60) | ND(0.30) | ND(0.30) |
| Benzo(k)fluoranthene | ND(0.30) | ND(0.30) | ND(0.60) | ND(0.30) | ND(0.30) |
| Benzoic Acid | ND(2.00) | ND(2.00) | ND(4.00) | ND(2.00) | ND(2.00) |
| Benzyl Alcohol | ND(0.30) | ND(0.30) | ND(0.60) | ND(0.30) | ND(0.30) |
| Bis(2-chloroethoxy)methane | ND(0.30) | ND(0.30) | ND(0.60) | ND(0.30) | ND(0.30) |
| Bis(2-chloroethyl) Ether | ND(0.30) | ND(0.30) | ND(0.60) | ND(0.30) | ND(0.30) |

# 1993 OU1, PSE2 Soil Data

| Sample Number | 93FW0516SL | 93FW0517SL | 93FW0518SL | 93FW0519SL | 93FW0520SL |
|---|---|---|---|---|---|
| Lab Code | K3794-19 | K3794-20 | K3794-21 | K3794-22 | K3794-23 |
| Date | 6/29/93 | 6/29/93 | 6/29/93 | 6/29/93 | 6/29/93 |
| Location | 1599-14SS | 1599-15SS | 1599-16SS | 1599-17SS | 1599-18SS |
| Depth | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 |
| Type | PR | PR | PR | PR | PR |
| Analyte | | | | | |
| Bis(2-chloroisopropyl) Ether | ND(0.30) | ND(0.30) | ND(0.60) | ND(0.30) | ND(0.30) |
| Bis(2-ethylhexyl) Phthalate | ND(0.30) | ND(0.30) | ND(0.60) | ND(0.30) | ND(0.30) |
| Butylbenzyl Phthalate | ND(0.30) | ND(0.30) | ND(0.60) | ND(0.30) | ND(0.30) |
| Chrysene | ND(0.30) | ND(0.30) | ND(0.60) | ND(0.30) | ND(0.30) |
| Di-n-butyl Phthalate | ND(0.30) | ND(0.30) | ND(0.60) | ND(0.30) | ND(0.30) |
| Di-n-octyl Phthalate | ND(0.30) | ND(0.30) | ND(0.60) | ND(0.30) | ND(0.30) |
| Dibenz(a,h)anthracene | ND(0.30) | ND(0.30) | ND(0.60) | ND(0.30) | ND(0.30) |
| Dibenzofuran | ND(0.30) | ND(0.30) | ND(0.60) | ND(0.30) | ND(0.30) |
| Diethyl Phthalate | ND(0.30) | ND(0.30) | ND(0.60) | ND(0.30) | ND(0.30) |
| Dimethyl Phthalate | ND(0.30) | ND(0.30) | ND(0.60) | ND(0.30) | ND(0.30) |
| Fluoranthene | ND(0.30) | ND(0.30) | ND(0.60) | ND(0.30) | ND(0.30) |
| Fluorene | ND(0.30) | ND(0.30) | ND(0.60) | ND(0.30) | ND(0.30) |
| Hexachlorobenzene | ND(0.30) | ND(0.30) | ND(0.60) | ND(0.30) | ND(0.30) |
| Hexachlorobutadiene | ND(0.30) | ND(0.30) | ND(0.60) | ND(0.30) | ND(0.30) |
| Hexachlorocyclopentadiene | ND(0.30) | ND(0.30) | ND(0.60) | ND(0.30) | ND(0.30) |
| Hexachloroethane | ND(0.30) | ND(0.30) | ND(0.60) | ND(0.30) | ND(0.30) |
| Indeno(1,2,3-c,d)pyrene | ND(0.30) | ND(0.30) | ND(0.60) | ND(0.30) | ND(0.30) |
| Isophorone | ND(0.30) | ND(0.30) | ND(0.60) | ND(0.30) | ND(0.30) |
| N-Nitrosodi-n-propylamine | ND(0.30) | ND(0.30) | ND(0.60) | ND(0.30) | ND(0.30) |
| N-Nitrosodimethylamine | ND(2.00) | ND(2.00) | ND(4.00) | ND(2.00) | ND(2.00) |
| N-Nitrosodiphenylamine | ND(0.30) | ND(0.30) | ND(0.60) | ND(0.30) | ND(0.30) |
| Naphthalene | ND(0.30) | ND(0.30) | ND(0.60) | ND(0.30) | ND(0.30) |
| Nitrobenzene | ND(0.30) | ND(0.30) | ND(0.60) | ND(0.30) | ND(0.30) |
| Pentachlorophenol | ND(2.00) | ND(2.00) | ND(4.00) | ND(2.00) | ND(2.00) |
| Phenanthrene | ND(0.30) | ND(0.30) | ND(0.60) | ND(0.30) | ND(0.30) |
| Phenol | ND(0.30) | ND(0.30) | ND(0.60) | ND(0.30) | ND(0.30) |
| Pyrene | ND(0.30) | ND(0.30) | ND(0.60) | ND(0.30) | ND(0.30) |
| EPA Methods 8550M /8150M | | | | | |
| 2,4,5-T | NA | NA | NA | NA | NA |
| 2,4,5-TP (Silvex) | NA | NA | NA | NA | NA |
| 2,4-D | NA | NA | NA | NA | NA |
| 2,4-DB | NA | NA | NA | NA | NA |
| Dalapon | NA | NA | NA | NA | NA |
| Dicamba | NA | NA | NA | NA | NA |
| Dichloroprop | NA | NA | NA | NA | NA |
| Dinoseb | NA | NA | NA | NA | NA |
| MCPA | NA | NA | NA | NA | NA |
| MCPP | NA | NA | NA | NA | NA |
| EPA Methods 3540/8080 | | | | | |
| 4,4'-DDD | 00.03 | 00.06 | 00.01 | 00.03 | 00.02 |
| 4,4'-DDE | 00.02 | 00.05 | 00.01 | 00.03 | ND(0.01) |
| 4,4'-DDT | 00.12 | 00.51 | 00.05 | 00.21 | 00.07 |
| Aldrin | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Alpha-BHC | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Aroclor 1016 | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) |
| Aroclor 1221 | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) |
| Aroclor 1232 | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) |
| Aroclor 1242 | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) |
| Aroclor 1248 | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) |
| Aroclor 1254 | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) |
| Aroclor 1260 | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) |
| Beta-BHC | ND(0.03) | ND(0.03) | ND(0.03) | ND(0.03) | ND(0.03) |
| Chlordane | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) |
| Delta-BHC | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Dieldrin | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Endosulfan I | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Endosulfan II | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Endosulfan Sulfate | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Endrin | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Endrin Aldehyde | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Gamma-BHC (Lindane) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |

# 1993 OU1, PSE2 Soil Data

| Sample Number | 93FW0516SL | 93FW0517SL | 93FW0518SL | 93FW0519SL | 93FW0520SL |
|---|---|---|---|---|---|
| Lab Code | K3794-19 | K3794-20 | K3794-21 | K3794-22 | K3794-23 |
| Date | 6/29/93 | 6/29/93 | 6/29/93 | 6/29/93 | 6/29/93 |
| Location | 1599-14SS | 1599-15SS | 1599-16SS | 1599-17SS | 1599-18SS |
| Depth | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 |
| Type | PR | PR | PR | PR | PR |
| Analyte | | | | | |
| Heptachlor | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Heptachlor Epoxide | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Methoxychlor | ND(0.02) | ND(0.02) | ND(0.02) | ND(0.02) | ND(0.02) |
| Toxaphene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| EPA Methods 3540/8140 | | | | | |
| Azinphos Methyl | NA | NA | NA | NA | NA |
| Bolstar | NA | NA | NA | NA | NA |
| Chlorpyrifos | NA | NA | NA | NA | NA |
| Coumaphos | NA | NA | NA | NA | NA |
| Demeton-O,S | NA | NA | NA | NA | NA |
| Diazinon | NA | NA | NA | NA | NA |
| Dichlorvos | NA | NA | NA | NA | NA |
| Disulfoton | NA | NA | NA | NA | NA |
| Ethoprop | NA | NA | NA | NA | NA |
| Fensulfothion | NA | NA | NA | NA | NA |
| Fenthion | NA | NA | NA | NA | NA |
| Malathion | NA | NA | NA | NA | NA |
| Parathion Methyl | NA | NA | NA | NA | NA |
| Merphos | NA | NA | NA | NA | NA |
| Mevinphos | NA | NA | NA | NA | NA |
| Naled | NA | NA | NA | NA | NA |
| Phorate | NA | NA | NA | NA | NA |
| Ronnel | NA | NA | NA | NA | NA |
| Stirophos | NA | NA | NA | NA | NA |
| Tokuthion (Prothiofos) | NA | NA | NA | NA | NA |
| Trichloronate | NA | NA | NA | NA | NA |
| Metals | | | | | |
| Arsenic (7060) | NA | NA | NA | NA | NA |
| Barium (6010) | NA | NA | NA | NA | NA |
| Cadmium (6010) | NA | NA | NA | NA | NA |
| Chromium (6010) | NA | NA | NA | NA | NA |
| Lead (7421) | NA | NA | NA | NA | NA |
| Mercury (7471) | NA | NA | NA | NA | NA |
| Selenium (7740) | NA | NA | NA | NA | NA |
| Silver (6010) | NA | NA | NA | NA | NA |
| EPA Method 8290 | | | | | |
| OCDD | 100.00 | 190.00 | NA | NA | NA |
| OCDF | 2.00 | 5.20 | NA | NA | NA |
| Total HpCDD | 36.00 | 58.00 | NA | NA | NA |
| Total HpCDF | 5.40 | 14.00 | NA | NA | NA |
| Total HxCDD | 7.10 | 4.90 | NA | NA | NA |
| Total HxCDF | 4.70 | 11.00 | NA | NA | NA |
| Total PeCDD | ND(0.24) | ND(0.28) | NA | NA | NA |
| Total PeCDF | 2.00 | 4.10 | NA | NA | NA |
| Total TCDD | ND(0.19) | ND(0.17) | NA | NA | NA |
| Total TCDF | 0.44 | 0.62 | NA | NA | NA |

# 1993 OU1, PSE2 Soil Data

| Sample Number | 93FW0521SL | 93FW0522SL | 93FW0524SL | 93FW0525SL | 93FW0526SL |
|---|---|---|---|---|---|
| Lab Code | K3794-11 | K3794-12 | K3794-13 | K4019-1 | K4019-2 |
| Date | 6/29/93 | 6/29/93 | 6/29/93 | 7/8/93 | 7/8/93 |
| Location | 1599-19SS | 1599-20SS | 1599-20SS | AP-5969 | AP-5969 |
| Depth | 0 - 1 | 0 - 1 | 0 - 1 | 2 - 3.5 | 5 - 6.5 |
| Type | PR | PR | QC | PR | PR |
| Analyte | | | | | |
| EPA Methods 3540/8100 DRO | | | | | |
| DRO | 2700.00 | 500.00 | 530.00 | 1200.00 | 11.00 |
| EPA Methods 5030/8015 GRO | | | | | |
| GRO | 673.00 | ND(5.00) | ND(5.00) | 6 | ND(5.00) |
| EPA Method 8290 | | | | | |
| 1,2,3,4,6,7,8-HpCDD | NA | 140.00 | 94.00 | NA | NA |
| 1,2,3,4,6,7,8-HpCDF | NA | 21.00 | 19.00 | NA | NA |
| 1,2,3,4,7,8,9-HpCDF | NA | ND(0.84) | ND(0.65) | NA | NA |
| 1,2,3,4,7,8-HxCDD | NA | 2.80 | 1.90 | NA | NA |
| 1,2,3,4,7,8-HxCDF | NA | 2.10 | 1.70 | NA | NA |
| 1,2,3,6,7,8-HxCDD | NA | 9.90 | 6.00 | NA | NA |
| 1,2,3,6,7,8-HxCDF | NA | 1.50 | 1.20 | NA | NA |
| 1,2,3,7,8,9-HxCDD | NA | 3.70 | 3.30 | NA | NA |
| 1,2,3,7,8,9-HxCDF | NA | ND(0.46) | ND(0.32) | NA | NA |
| 1,2,3,7,8-PeCDD | NA | ND(0.92) | ND(1.40) | NA | NA |
| 1,2,3,7,8-PeCDF | NA | ND(0.83) | ND(0.51) | NA | NA |
| 2,3,4,6,7,8-HxCDF | NA | 2.50 | 2.20 | NA | NA |
| 2,3,4,7,8-PeCDF | NA | 4.40 | 2.70 | NA | NA |
| 2,3,7,8-TCDD | NA | ND(0.17) | ND(0.48) | NA | NA |
| 2,3,7,8-TCDF | NA | 1.40 | 0.98 | NA | NA |
| EPA Methods 3550/8270 | | | | | |
| 1,2,4-Trichlorobenzene | ND(3.00) | ND(3.00) | ND(3.00) | ND(1.50) | ND(0.30) |
| 1,2-Dichlorobenzene | ND(3.00) | ND(3.00) | ND(3.00) | ND(1.50) | ND(0.30) |
| 1,3-Dichlorobenzene | ND(3.00) | ND(3.00) | ND(3.00) | ND(1.50) | ND(0.30) |
| 1,4-Dichlorobenzene | ND(3.00) | ND(3.00) | ND(3.00) | ND(1.50) | ND(0.30) |
| 2,4,5-Trichlorophenol | ND(3.00) | ND(3.00) | ND(3.00) | ND(1.50) | ND(0.30) |
| 2,4,6-Trichlorophenol | ND(3.00) | ND(3.00) | ND(3.00) | ND(1.50) | ND(0.30) |
| 2,4-Dichlorophenol | ND(3.00) | ND(3.00) | ND(3.00) | ND(1.50) | ND(0.30) |
| 2,4-Dimethylphenol | ND(3.00) | ND(3.00) | ND(3.00) | ND(1.50) | ND(0.30) |
| 2,4-Dinitrophenol | ND(20.00) | ND(20.00) | ND(20.00) | ND(10.00) | ND(2.00) |
| 2,4-Dinitrotoluene | ND(3.00) | ND(3.00) | ND(3.00) | ND(1.50) | ND(0.30) |
| 2,6-Dinitrotoluene | ND(3.00) | ND(3.00) | ND(3.00) | ND(1.50) | ND(0.30) |
| 2-Chloronaphthalene | ND(3.00) | ND(3.00) | ND(3.00) | ND(1.50) | ND(0.30) |
| 2-Chlorophenol | ND(3.00) | ND(3.00) | ND(3.00) | ND(1.50) | ND(0.30) |
| 2-Methyl-4,6-dinitrophenol | ND(20.00) | ND(20.00) | ND(20.00) | ND(10.00) | ND(2.00) |
| 2-Methylnaphthalene | 14.00 | ND(3.00) | ND(3.00) | ND(1.50) | ND(0.30) |
| 2-Methylphenol | ND(3.00) | ND(3.00) | ND(3.00) | ND(1.50) | ND(0.30) |
| 2-Nitroaniline | ND(20.00) | ND(20.00) | ND(20.00) | ND(10.00) | ND(2.00) |
| 2-Nitrophenol | ND(3.00) | ND(3.00) | ND(3.00) | ND(1.50) | ND(0.30) |
| 3,3'-Dichlorobenzidine | ND(20.00) | ND(20.00) | ND(20.00) | ND(10.00) | ND(2.00) |
| 3- and 4-Methylphenol_ | ND(3.00) | ND(3.00) | ND(3.00) | ND(1.50) | ND(0.30) |
| 3-Nitroaniline | ND(20.00) | ND(20.00) | ND(20.00) | ND(10.00) | ND(2.00) |
| 4-Bromophenyl Phenyl Ether | ND(3.00) | ND(3.00) | ND(3.00) | ND(1.50) | ND(0.30) |
| 4-Chloro-3-methylphenol | ND(3.00) | ND(3.00) | ND(3.00) | ND(1.50) | ND(0.30) |
| 4-Chloroaniline | ND(3.00) | ND(3.00) | ND(3.00) | ND(1.50) | ND(0.30) |
| 4-Chlorophenyl Phenyl Ether | ND(3.00) | ND(3.00) | ND(3.00) | ND(1.50) | ND(0.30) |
| 4-Nitroaniline | ND(20.00) | ND(20.00) | ND(20.00) | ND(10.00) | ND(2.00) |
| 4-Nitrophenol | ND(20.00) | ND(20.00) | ND(20.00) | ND(10.00) | ND(2.00) |
| Acenaphthene | ND(3.00) | ND(3.00) | ND(3.00) | ND(1.50) | ND(0.30) |
| Acenaphthylene | ND(3.00) | ND(3.00) | ND(3.00) | ND(1.50) | ND(0.30) |
| Aniline | ND(10.00) | ND(10.00) | ND(10.00) | ND(5.00) | ND(1.00) |
| Anthracene | ND(3.00) | ND(3.00) | ND(3.00) | ND(1.50) | ND(0.30) |
| Benz(a)anthracene | ND(3.00) | ND(3.00) | ND(3.00) | ND(1.50) | ND(0.30) |
| Benzo(a)pyrene | ND(3.00) | ND(3.00) | ND(3.00) | ND(1.50) | ND(0.30) |
| Benzo(b)fluoranthene | ND(3.00) | ND(3.00) | ND(3.00) | ND(1.50) | ND(0.30) |
| Benzo(g,h,i)perylene | ND(3.00) | ND(3.00) | ND(3.00) | ND(1.50) | ND(0.30) |
| Benzo(k)fluoranthene | ND(3.00) | ND(3.00) | ND(3.00) | ND(1.50) | ND(0.30) |
| Benzoic Acid | ND(20.00) | ND(20.00) | ND(20.00) | ND(10.00) | ND(2.00) |
| Benzyl Alcohol | ND(3.00) | ND(3.00) | ND(3.00) | ND(1.50) | ND(0.30) |
| Bis(2-chloroethoxy)methane | ND(3.00) | ND(3.00) | ND(3.00) | ND(1.50) | ND(0.30) |
| Bis(2-chloroethyl) Ether | ND(3.00) | ND(3.00) | ND(3.00) | ND(1.50) | ND(0.30) |

# 1993 OU1, PSE2 Soil Data

| Sample Number | 93FW0521SL | 93FW0522SL | 93FW0524SL | 93FW0525SL | 93FW0526SL |
|---|---|---|---|---|---|
| Lab Code | K3794-11 | K3794-12 | K3794-13 | K4019-1 | K4019-2 |
| Date | 6/29/93 | 6/29/93 | 6/29/93 | 7/8/93 | 7/8/93 |
| Location | 1599-19SS | 1599-20SS | 1599-20SS | AP-5969 | AP-5969 |
| Depth | 0 - 1 | 0 - 1 | 0 - 1 | 2 - 3.5 | 5 - 6.5 |
| Type | PR | PR | QC | PR | PR |
| Analyte | | | | | |
| Bis(2-chloroisopropyl) Ether | ND(3.00) | ND(3.00) | ND(3.00) | ND(1.50) | ND(0.30) |
| Bis(2-ethylhexyl) Phthalate | ND(3.00) | ND(3.00) | ND(3.00) | ND(1.50) | ND(0.30) |
| Butylbenzyl Phthalate | ND(3.00) | ND(3.00) | ND(3.00) | ND(1.50) | ND(0.30) |
| Chrysene | ND(3.00) | ND(3.00) | ND(3.00) | ND(1.50) | ND(0.30) |
| Di-n-butyl Phthalate | ND(3.00) | ND(3.00) | ND(3.00) | ND(1.50) | ND(0.30) |
| Di-n-octyl Phthalate | ND(3.00) | ND(3.00) | ND(3.00) | ND(1.50) | ND(0.30) |
| Dibenz(a,h)anthracene | ND(3.00) | ND(3.00) | ND(3.00) | ND(1.50) | ND(0.30) |
| Dibenzofuran | ND(3.00) | ND(3.00) | ND(3.00) | ND(1.50) | ND(0.30) |
| Diethyl Phthalate | ND(3.00) | ND(3.00) | ND(3.00) | ND(1.50) | ND(0.30) |
| Dimethyl Phthalate | ND(3.00) | ND(3.00) | ND(3.00) | ND(1.50) | ND(0.30) |
| Fluoranthene | ND(3.00) | ND(3.00) | ND(3.00) | ND(1.50) | ND(0.30) |
| Fluorene | ND(3.00) | ND(3.00) | ND(3.00) | ND(1.50) | ND(0.30) |
| Hexachlorobenzene | ND(3.00) | ND(3.00) | ND(3.00) | ND(1.50) | ND(0.30) |
| Hexachlorobutadiene | ND(3.00) | ND(3.00) | ND(3.00) | ND(1.50) | ND(0.30) |
| Hexachlorocyclopentadiene | ND(3.00) | ND(3.00) | ND(3.00) | ND(1.50) | ND(0.30) |
| Hexachloroethane | ND(3.00) | ND(3.00) | ND(3.00) | ND(1.50) | ND(0.30) |
| Indeno(1,2,3-c,d)pyrene | ND(3.00) | ND(3.00) | ND(3.00) | ND(1.50) | ND(0.30) |
| Isophorone | ND(3.00) | ND(3.00) | ND(3.00) | ND(1.50) | ND(0.30) |
| N-Nitrosodi-n-propylamine | ND(3.00) | ND(3.00) | ND(3.00) | ND(1.50) | ND(0.30) |
| N-Nitrosodimethylamine | ND(20.00) | ND(20.00) | ND(20.00) | ND(10.00) | ND(2.00) |
| N-Nitrosodiphenylamine | ND(3.00) | ND(3.00) | ND(3.00) | ND(1.50) | ND(0.30) |
| Naphthalene | 12.00 | ND(3.00) | ND(3.00) | ND(1.50) | ND(0.30) |
| Nitrobenzene | ND(3.00) | ND(3.00) | ND(3.00) | ND(1.50) | ND(0.30) |
| Pentachlorophenol | ND(20.00) | ND(20.00) | ND(20.00) | ND(10.00) | ND(2.00) |
| Phenanthrene | ND(3.00) | ND(3.00) | ND(3.00) | ND(1.50) | ND(0.30) |
| Phenol | ND(3.00) | ND(3.00) | ND(3.00) | ND(1.50) | ND(0.30) |
| Pyrene | ND(3.00) | ND(3.00) | ND(3.00) | ND(1.50) | ND(0.30) |
| EPA Methods 3550M /8150M | | | | | |
| 2,4,5-T | NA | NA | NA | NA | NA |
| 2,4,5-TP (Silvex) | NA | NA | NA | NA | NA |
| 2,4-D | NA | NA | NA | NA | NA |
| 2,4-DB | NA | NA | NA | NA | NA |
| Dalapon | NA | NA | NA | NA | NA |
| Dicamba | NA | NA | NA | NA | NA |
| Dichloroprop | NA | NA | NA | NA | NA |
| Dinoseb | NA | NA | NA | NA | NA |
| MCPA | NA | NA | NA | NA | NA |
| MCPP | NA | NA | NA | NA | NA |
| EPA Methods 3540/8080 | | | | | |
| 4,4'-DDD | 00.20 | a<10 | a<7 | a0.86 | ND(0.01) |
| 4,4'-DDE | 00.09 | 20.00 | 16.00 | a0.58 | ND(0.01) |
| 4,4'-DDT | 00.99 | 86.00 | 48.00 | a3.2 | 0.02 |
| Aldrin | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Alpha-BHC | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Aroclor 1016 | ND(0.10) | a<1 | a<1 | cND | ND(0.10) |
| Aroclor 1221 | ND(0.10) | a<1 | a<1 | cND | ND(0.10) |
| Aroclor 1232 | ND(0.10) | a<1 | a<1 | cND | ND(0.10) |
| Aroclor 1242 | ND(0.10) | a<1 | a<1 | cND | ND(0.10) |
| Aroclor 1248 | ND(0.10) | a<1 | a<1 | cND | ND(0.10) |
| Aroclor 1254 | b<0.7 | a<7 | a<8 | cND | ND(0.10) |
| Aroclor 1260 | 00.50 | a<7 | a<8 | cND | ND(0.10) |
| Beta-BHC | ND(0.03) | ND(0.03) | ND(0.03) | ND(0.03) | ND(0.03) |
| Chlordane | ND(0.10) | a<1 | a<2 | b<0.2 | ND(0.10) |
| Delta-BHC | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Dieldrin | 00.02 | a<1 | a<0.2 | 0.01 | ND(0.01) |
| Endosulfan I | ND(0.01) | a<0.1 | a<0.1 | ND(0.01) | ND(0.01) |
| Endosulfan II | ND(0.01) | a<1 | a<0.3 | ND(0.01) | ND(0.01) |
| Endosulfan Sulfate | ND(0.01) | a<0.1 | a<0.1 | ND(0.01) | ND(0.01) |
| Endrin | ND(0.01) | a<1 | a<3 | ND(0.01) | ND(0.01) |
| Endrin Aldehyde | ND(0.01) | a<0.1 | a<0.1 | ND(0.01) | ND(0.01) |
| Gamma-BHC (Lindane) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |

# 1993 OU1, PSE2 Soil Data

| Sample Number | 93FW0521SL | 93FW0522SL | 93FW0524SL | 93FW0525SL | 93FW0526SL |
|---|---|---|---|---|---|
| Lab Code | K3794-11 | K3794-12 | K3794-13 | K4019-1 | K4019-2 |
| Date | 6/29/93 | 6/29/93 | 6/29/93 | 7/8/93 | 7/8/93 |
| Location | 1599-19SS | 1599-20SS | 1599-20SS | AP-5969 | AP-5969 |
| Depth | 0 - 1 | 0 - 1 | 0 - 1 | 2 - 3.5 | 5 - 6.5 |
| Type | PR | PR | QC | PR | PR |
| Analyte | | | | | |
| Heptachlor | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Heptachlor Epoxide | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Methoxychlor | ND(0.02) | a<0.2 | a<0.2 | ND(0.02) | ND(0.02) |
| Toxaphene | a<7 | a<14 | a<15 | b<0.5 | ND(0.30) |
| EPA Methods 3540/8140 | | | | | |
| Azinphos Methyl | NA | NA | NA | NA | NA |
| Bolstar | NA | NA | NA | NA | NA |
| Chlorpyrifos | NA | NA | NA | NA | NA |
| Coumaphos | NA | NA | NA | NA | NA |
| Demeton-O,S | NA | NA | NA | NA | NA |
| Diazinon | NA | NA | NA | NA | NA |
| Dichlorvos | NA | NA | NA | NA | NA |
| Disulfoton | NA | NA | NA | NA | NA |
| Ethoprop | NA | NA | NA | NA | NA |
| Fensulfothion | NA | NA | NA | NA | NA |
| Fenthion | NA | NA | NA | NA | NA |
| Malathion | NA | NA | NA | NA | NA |
| Parathion Methyl | NA | NA | NA | NA | NA |
| Merphos | NA | NA | NA | NA | NA |
| Mevinphos | NA | NA | NA | NA | NA |
| Naled | NA | NA | NA | NA | NA |
| Phorate | NA | NA | NA | NA | NA |
| Ronnel | NA | NA | NA | NA | NA |
| Stirophos | NA | NA | NA | NA | NA |
| Tokuthion (Prothiofos) | NA | NA | NA | NA | NA |
| Trichloronate | NA | NA | NA | NA | NA |
| Metals | | | | | |
| Arsenic (7060) | NA | NA | NA | NA | NA |
| Barium (6010) | NA | NA | NA | NA | NA |
| Cadmium (6010) | NA | NA | NA | NA | NA |
| Chromium (6010) | NA | NA | NA | NA | NA |
| Lead (7421) | NA | NA | NA | NA | NA |
| Mercury (7471) | NA | NA | NA | NA | NA |
| Selenium (7740) | NA | NA | NA | NA | NA |
| Silver (6010) | NA | NA | NA | NA | NA |
| EPA Method 8290 | | | | | |
| OCDD | NA | 870.00 | 620.00 | NA | NA |
| OCDF | NA | 26.00 | 19.00 | NA | NA |
| Total HpCDD | NA | 290.00 | 190.00 | NA | NA |
| Total HpCDF | NA | 59.00 | 41.00 | NA | NA |
| Total HxCDD | NA | 50.00 | 36.00 | NA | NA |
| Total HxCDF | NA | 55.00 | 41.00 | NA | NA |
| Total PeCDD | NA | 2.60 | ND(1.40) | NA | NA |
| Total PeCDF | NA | 47.00 | 39.00 | NA | NA |
| Total TCDD | NA | ND(0.17) | ND(0.48) | NA | NA |
| Total TCDF | NA | 20.00 | 18.00 | NA | NA |

# 1993 OU1, PSE2 Soil Data

| Sample Number | 93FW0527SL | 93FW0528SL | 93FW0530SL | 93FW0531SL | 93FW0532SL |
|---|---|---|---|---|---|
| Lab Code | K4019-3 | K4019-4 | K4019-5 | K4019-6 | K4019-7 |
| Date | 7/8/93 | 7/8/93 | 7/8/93 | 7/8/93 | 7/8/93 |
| Location | AP-5970 | AP-5970 | AP-5970 | AP-5971 | AP-5971 |
| Depth | 2 - 3.5 | 5 - 6.5 | 5 - 6.5 | 2 - 3.5 | 5 - 6.5 |
| Type | PR | PR | QC | PR | PR |
| Analyte | | | | | |
| EPA Methods 3540/8100 DRO | | | | | |
| DRO | 41.00 | 14.00 | 27.00 | 3700.00 | 19.00 |
| EPA Methods 5030/8015 GRO | | | | | |
| GRO | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| EPA Method 8290 | | | | | |
| 1,2,3,4,6,7,8-HpCDD | NA | NA | NA | NA | NA |
| 1,2,3,4,6,7,8-HpCDF | NA | NA | NA | NA | NA |
| 1,2,3,4,7,8,9-HpCDF | NA | NA | NA | NA | NA |
| 1,2,3,4,7,8-HxCDD | NA | NA | NA | NA | NA |
| 1,2,3,4,7,8-HxCDF | NA | NA | NA | NA | NA |
| 1,2,3,6,7,8-HxCDD | NA | NA | NA | NA | NA |
| 1,2,3,6,7,8-HxCDF | NA | NA | NA | NA | NA |
| 1,2,3,7,8,9-HxCDD | NA | NA | NA | NA | NA |
| 1,2,3,7,8,9-HxCDF | NA | NA | NA | NA | NA |
| 1,2,3,7,8-PeCDD | NA | NA | NA | NA | NA |
| 1,2,3,7,8-PeCDF | NA | NA | NA | NA | NA |
| 2,3,4,6,7,8-HxCDF | NA | NA | NA | NA | NA |
| 2,3,4,7,8-PeCDF | NA | NA | NA | NA | NA |
| 2,3,7,8-TCDD | NA | NA | NA | NA | NA |
| 2,3,7,8-TCDF | NA | NA | NA | NA | NA |
| EPA Methods 3550/8270 | | | | | |
| 1,2,4-Trichlorobenzene | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) |
| 1,2-Dichlorobenzene | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) |
| 1,3-Dichlorobenzene | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) |
| 1,4-Dichlorobenzene | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) |
| 2,4,5-Trichlorophenol | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) |
| 2,4,6-Trichlorophenol | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) |
| 2,4-Dichlorophenol | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) |
| 2,4-Dimethylphenol | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) |
| 2,4-Dinitrophenol | ND(2.00) | ND(2.00) | ND(2.00) | ND(10.00) | ND(2.00) |
| 2,4-Dinitrotoluene | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) |
| 2,6-Dinitrotoluene | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) |
| 2-Chloronaphthalene | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) |
| 2-Chlorophenol | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) |
| 2-Methyl-4,6-dinitrophenol | ND(2.00) | ND(2.00) | ND(2.00) | ND(10.00) | ND(2.00) |
| 2-Methylnaphthalene | ND(0.30) | ND(0.30) | ND(0.30) | 2.00 | ND(0.30) |
| 2-Methylphenol | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) |
| 2-Nitroaniline | ND(2.00) | ND(2.00) | ND(2.00) | ND(10.00) | ND(2.00) |
| 2-Nitrophenol | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) |
| 3,3'-Dichlorobenzidine | ND(2.00) | ND(2.00) | ND(2.00) | ND(10.00) | ND(2.00) |
| 3- and 4-Methylphenol_ | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) |
| 3-Nitroaniline | ND(2.00) | ND(2.00) | ND(2.00) | ND(10.00) | ND(2.00) |
| 4-Bromophenyl Phenyl Ether | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) |
| 4-Chloro-3-methylphenol | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) |
| 4-Chloroaniline | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) |
| 4-Chlorophenyl Phenyl Ether | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) |
| 4-Nitroaniline | ND(2.00) | ND(2.00) | ND(2.00) | ND(10.00) | ND(2.00) |
| 4-Nitrophenol | ND(2.00) | ND(2.00) | ND(2.00) | ND(10.00) | ND(2.00) |
| Acenaphthene | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) |
| Acenaphthylene | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) |
| Aniline | ND(1.00) | ND(1.00) | ND(1.00) | ND(5.00) | ND(1.00) |
| Anthracene | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) |
| Benz(a)anthracene | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) |
| Benzo(a)pyrene | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) |
| Benzo(b)fluoranthene | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) |
| Benzo(g,h,i)perylene | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) |
| Benzo(k)fluoranthene | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) |
| Benzoic Acid | ND(2.00) | ND(2.00) | ND(2.00) | ND(10.00) | ND(2.00) |
| Benzyl Alcohol | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) |
| Bis(2-chloroethoxy)methane | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) |
| Bis(2-chloroethyl) Ether | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) |

# 1993 OU1, PSE2 Soil Data

| Sample Number | 93FW0527SL | 93FW0528SL | 93FW0530SL | 93FW0531SL | 93FW0532SL |
|---|---|---|---|---|---|
| Lab Code | K4019-3 | K4019-4 | K4019-5 | K4019-6 | K4019-7 |
| Date | 7/8/93 | 7/8/93 | 7/8/93 | 7/8/93 | 7/8/93 |
| Location | AP-5970 | AP-5970 | AP-5970 | AP-5971 | AP-5971 |
| Depth | 2 - 3.5 | 5 - 6.5 | 5 - 6.5 | 2 - 3.5 | 5 - 6.5 |
| Type | PR | PR | QC | PR | PR |
| Analyte | | | | | |
| Bis(2-chloroisopropyl) Ether | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) |
| Bis(2-ethylhexyl) Phthalate | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) |
| Butylbenzyl Phthalate | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) |
| Chrysene | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) |
| Di-n-butyl Phthalate | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) |
| Di-n-octyl Phthalate | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) |
| Dibenz(a,h)anthracene | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) |
| Dibenzofuran | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) |
| Diethyl Phthalate | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) |
| Dimethyl Phthalate | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) |
| Fluoranthene | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) |
| Fluorene | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) |
| Hexachlorobenzene | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) |
| Hexachlorobutadiene | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) |
| Hexachlorocyclopentadiene | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) |
| Hexachloroethane | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) |
| Indeno(1,2,3-c,d)pyrene | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) |
| Isophorone | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) |
| N-Nitrosodi-n-propylamine | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) |
| N-Nitrosodimethylamine | ND(2.00) | ND(2.00) | ND(2.00) | ND(10.00) | ND(2.00) |
| N-Nitrosodiphenylamine | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) |
| Naphthalene | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) |
| Nitrobenzene | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) |
| Pentachlorophenol | ND(2.00) | ND(2.00) | ND(2.00) | ND(10.00) | ND(2.00) |
| Phenanthrene | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) |
| Phenol | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) |
| Pyrene | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) |
| EPA Methods 8550M /8150M | | | | | |
| 2,4,5-T | NA | NA | NA | NA | NA |
| 2,4,5-TP (Silvex) | NA | NA | NA | NA | NA |
| 2,4-D | NA | NA | NA | NA | NA |
| 2,4-DB | NA | NA | NA | NA | NA |
| Dalapon | NA | NA | NA | NA | NA |
| Dicamba | NA | NA | NA | NA | NA |
| Dichloroprop | NA | NA | NA | NA | NA |
| Dinoseb | NA | NA | NA | NA | NA |
| MCPA | NA | NA | NA | NA | NA |
| MCPP | NA | NA | NA | NA | NA |
| EPA Methods 3540/8080 | | | | | |
| 4,4'-DDD | ND(0.01) | ND(0.01) | ND(0.01) | 0.03 | ND(0.01) |
| 4,4'-DDE | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| 4,4'-DDT | ND(0.01) | ND(0.01) | ND(0.01) | 0.01 | ND(0.01) |
| Aldrin | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Alpha-BHC | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Aroclor 1016 | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) |
| Aroclor 1221 | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) |
| Aroclor 1232 | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) |
| Aroclor 1242 | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) |
| Aroclor 1248 | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) |
| Aroclor 1254 | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) |
| Aroclor 1260 | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) |
| Beta-BHC | ND(0.03) | ND(0.03) | ND(0.03) | ND(0.03) | ND(0.03) |
| Chlordane | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) |
| Delta-BHC | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Dieldrin | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Endosulfan I | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Endosulfan II | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Endosulfan Sulfate | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Endrin | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Endrin Aldehyde | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Gamma-BHC (Lindane) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |

# 1993 OU1, PSE2 Soil Data

| Sample Number | 93FW0527SL | 93FW0528SL | 93FW0530SL | 93FW0531SL | 93FW0532SL |
|---|---|---|---|---|---|
| Lab Code | K4019-3 | K4019-4 | K4019-5 | K4019-6 | K4019-7 |
| Date | 7/8/93 | 7/8/93 | 7/8/93 | 7/8/93 | 7/8/93 |
| Location | AP-5970 | AP-5970 | AP-5970 | AP-5971 | AP-5971 |
| Depth | 2 - 3.5 | 5 - 6.5 | 5 - 6.5 | 2 - 3.5 | 5 - 6.5 |
| Type | PR | PR | QC | PR | PR |
| Analyte | | | | | |
| Heptachlor | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Heptachlor Epoxide | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Methoxychlor | ND(0.02) | ND(0.02) | ND(0.02) | ND(0.02) | ND(0.02) |
| Toxaphene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| EPA Methods 3540/3140 | | | | | |
| Azinphos Methyl | NA | NA | NA | NA | NA |
| Bolstar | NA | NA | NA | NA | NA |
| Chlorpyrifos | NA | NA | NA | NA | NA |
| Coumaphos | NA | NA | NA | NA | NA |
| Demeton-O,S | NA | NA | NA | NA | NA |
| Diazinon | NA | NA | NA | NA | NA |
| Dichlorvos | NA | NA | NA | NA | NA |
| Disulfoton | NA | NA | NA | NA | NA |
| Ethoprop | NA | NA | NA | NA | NA |
| Fensulfothion | NA | NA | NA | NA | NA |
| Fenthion | NA | NA | NA | NA | NA |
| Malathion | NA | NA | NA | NA | NA |
| Parathion Methyl | NA | NA | NA | NA | NA |
| Merphos | NA | NA | NA | NA | NA |
| Mevinphos | NA | NA | NA | NA | NA |
| Naled | NA | NA | NA | NA | NA |
| Phorate | NA | NA | NA | NA | NA |
| Ronnel | NA | NA | NA | NA | NA |
| Stirophos | NA | NA | NA | NA | NA |
| Tokuthion (Prothiofos) | NA | NA | NA | NA | NA |
| Trichloronate | NA | NA | NA | NA | NA |
| Metals | | | | | |
| Arsenic (7060) | NA | NA | NA | NA | NA |
| Barium (6010) | NA | NA | NA | NA | NA |
| Cadmium (6010) | NA | NA | NA | NA | NA |
| Chromium (6010) | NA | NA | NA | NA | NA |
| Lead (7421) | NA | NA | NA | NA | NA |
| Mercury (7471) | NA | NA | NA | NA | NA |
| Selenium (7740) | NA | NA | NA | NA | NA |
| Silver (6010) | NA | NA | NA | NA | NA |
| EPA Method 8290 | | | | | |
| OCDD | NA | NA | NA | NA | NA |
| OCDF | NA | NA | NA | NA | NA |
| Total HpCDD | NA | NA | NA | NA | NA |
| Total HpCDF | NA | NA | NA | NA | NA |
| Total HxCDD | NA | NA | NA | NA | NA |
| Total HxCDF | NA | NA | NA | NA | NA |
| Total PeCDD | NA | NA | NA | NA | NA |
| Total PeCDF | NA | NA | NA | NA | NA |
| Total TCDD | NA | NA | NA | NA | NA |
| Total TCDF | NA | NA | NA | NA | NA |

# 1993 OU1, PSE2 Soil Data

| Sample Number | 93FW0533SL | 93FW0534SL | 93FW0535SL | 93FW0536SL | 93FW0538SL |
|---|---|---|---|---|---|
| Lab Code | K4019-8 | K4019-9 | K4019-10 | K4019-11 | K4019-12 |
| Date | 7/8/93 | 7/8/93 | 7/8/93 | 7/8/93 | 7/8/93 |
| Location | AP-5972 | AP-5972 | AP-5973 | AP-5973 | AP-5973 |
| Depth | 2 - 3.5 | 5 - 6.5 | 5 - 6.5 | 10 - 11.5 | 10 - 11.5 |
| Type | PR | PR | PR | PR | QC |
| Analyte | | | | | |
| EPA Methods 3540/8100 DRO | | | | | |
| DRO | 55.00 | ND(10.00) | ND(10.00) | 16.00 | 11.00 |
| EPA Methods 5030/8015 GRO | | | | | |
| GRO | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| EPA Method 8290 | | | | | |
| 1,2,3,4,6,7,8-HpCDD | NA | NA | NA | NA | NA |
| 1,2,3,4,6,7,8-HpCDF | NA | NA | NA | NA | NA |
| 1,2,3,4,7,8,9-HpCDF | NA | NA | NA | NA | NA |
| 1,2,3,4,7,8-HxCDD | NA | NA | NA | NA | NA |
| 1,2,3,4,7,8-HxCDF | NA | NA | NA | NA | NA |
| 1,2,3,6,7,8-HxCDD | NA | NA | NA | NA | NA |
| 1,2,3,6,7,8-HxCDF | NA | NA | NA | NA | NA |
| 1,2,3,7,8,9-HxCDD | NA | NA | NA | NA | NA |
| 1,2,3,7,8,9-HxCDF | NA | NA | NA | NA | NA |
| 1,2,3,7,8-PeCDD | NA | NA | NA | NA | NA |
| 1,2,3,7,8-PeCDF | NA | NA | NA | NA | NA |
| 2,3,4,6,7,8-HxCDF | NA | NA | NA | NA | NA |
| 2,3,4,7,8-PeCDF | NA | NA | NA | NA | NA |
| 2,3,7,8-TCDD | NA | NA | NA | NA | NA |
| 2,3,7,8-TCDF | NA | NA | NA | NA | NA |
| EPA Methods 3550/8270 | | | | | |
| 1,2,4-Trichlorobenzene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| 1,2-Dichlorobenzene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| 1,3-Dichlorobenzene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| 1,4-Dichlorobenzene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| 2,4,5-Trichlorophenol | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| 2,4,6-Trichlorophenol | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| 2,4-Dichlorophenol | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| 2,4-Dimethylphenol | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| 2,4-Dinitrophenol | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) |
| 2,4-Dinitrotoluene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| 2,6-Dinitrotoluene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| 2-Chloronaphthalene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| 2-Chlorophenol | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| 2-Methyl-4,6-dinitrophenol | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) |
| 2-Methylnaphthalene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| 2-Methylphenol | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| 2-Nitroaniline | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) |
| 2-Nitrophenol | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| 3,3'-Dichlorobenzidine | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) |
| 3- and 4-Methylphenol_ | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| 3-Nitroaniline | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) |
| 4-Bromophenyl Phenyl Ether | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| 4-Chloro-3-methylphenol | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| 4-Chloroaniline | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| 4-Chlorophenyl Phenyl Ether | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| 4-Nitroaniline | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) |
| 4-Nitrophenol | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) |
| Acenaphthene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Acenaphthylene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Aniline | ND(1.00) | ND(1.00) | ND(1.00) | ND(1.00) | ND(1.00) |
| Anthracene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Benz(a)anthracene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Benzo(a)pyrene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Benzo(b)fluoranthene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Benzo(g,h,i)perylene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Benzo(k)fluoranthene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Benzoic Acid | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) |
| Benzyl Alcohol | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Bis(2-chloroethoxy)methane | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Bis(2-chloroethyl) Ether | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |

# 1993 OU1, PSE2 Soil Data

| Sample Number | 93FW0533SL | 93FW0534SL | 93FW0535SL | 93FW0536SL | 93FW0538SL |
|---|---|---|---|---|---|
| Lab Code | K4019-8 | K4019-9 | K4019-10 | K4019-11 | K4019-12 |
| Date | 7/8/93 | 7/8/93 | 7/8/93 | 7/8/93 | 7/8/93 |
| Location | AP-5972 | AP-5972 | AP-5973 | AP-5973 | AP-5973 |
| Depth | 2 - 3.5 | 5 - 6.5 | 5 - 6.5 | 10 - 11.5 | 10 - 11.5 |
| Type | PR | PR | PR | PR | QC |
| Analyte | | | | | |
| Bis(2-chloroisopropyl) Ether | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Bis(2-ethylhexyl) Phthalate | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | 0.40 |
| Butylbenzyl Phthalate | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Chrysene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Di-n-butyl Phthalate | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Di-n-octyl Phthalate | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Dibenz(a,h)anthracene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Dibenzofuran | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Diethyl Phthalate | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Dimethyl Phthalate | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Fluoranthene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Fluorene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Hexachlorobenzene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Hexachlorobutadiene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Hexachlorocyclopentadiene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Hexachloroethane | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Indeno(1,2,3-c,d)pyrene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Isophorone | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| N-Nitrosodi-n-propylamine | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| N-Nitrosodimethylamine | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) |
| N-Nitrosodiphenylamine | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Naphthalene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Nitrobenzene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Pentachlorophenol | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) |
| Phenanthrene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Phenol | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Pyrene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| EPA Methods 3550M /8150M | | | | | |
| 2,4,5-T | NA | NA | NA | NA | NA |
| 2,4,5-TP (Silvex) | NA | NA | NA | NA | NA |
| 2,4-D | NA | NA | NA | NA | NA |
| 2,4-DB | NA | NA | NA | NA | NA |
| Dalapon | NA | NA | NA | NA | NA |
| Dicamba | NA | NA | NA | NA | NA |
| Dichloroprop | NA | NA | NA | NA | NA |
| Dinoseb | NA | NA | NA | NA | NA |
| MCPA | NA | NA | NA | NA | NA |
| MCPP | NA | NA | NA | NA | NA |
| EPA Methods 3540/8080 | | | | | |
| 4,4'-DDD | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| 4,4'-DDE | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| 4,4'-DDT | ND(0.01) | ND(0.01) | ND(0.01) | 0.01 | 0.02 |
| Aldrin | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Alpha-BHC | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Aroclor 1016 | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) |
| Aroclor 1221 | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) |
| Aroclor 1232 | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) |
| Aroclor 1242 | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) |
| Aroclor 1248 | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) |
| Aroclor 1254 | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) |
| Aroclor 1260 | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) |
| Beta-BHC | ND(0.03) | ND(0.03) | ND(0.03) | ND(0.03) | ND(0.03) |
| Chlordane | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) |
| Delta-BHC | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Dieldrin | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Endosulfan I | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Endosulfan II | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Endosulfan Sulfate | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Endrin | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Endrin Aldehyde | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Gamma-BHC (Lindane) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |

# 1993 OU1, PSE2 Soil Data

| Sample Number | 93FW0533SL | 93FW0534SL | 93FW0535SL | 93FW0536SL | 93FW0538SL |
|---|---|---|---|---|---|
| Lab Code | K4019-8 | K4019-9 | K4019-10 | K4019-11 | K4019-12 |
| Date | 7/8/93 | 7/8/93 | 7/8/93 | 7/8/93 | 7/8/93 |
| Location | AP-5972 | AP-5972 | AP-5973 | AP-5973 | AP-5973 |
| Depth | 2 - 3.5 | 5 - 6.5 | 5 - 6.5 | 10 - 11.5 | 10 - 11.5 |
| Type | PR | PR | PR | PR | QC |
| Analyte | | | | | |
| Heptachlor | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Heptachlor Epoxide | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Methoxychlor | ND(0.02) | ND(0.02) | ND(0.02) | ND(0.02) | ND(0.02) |
| Toxaphene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| EPA Methods 3540/8140 | | | | | |
| Azinphos Methyl | NA | NA | NA | NA | NA |
| Bolstar | NA | NA | NA | NA | NA |
| Chlorpyrifos | NA | NA | NA | NA | NA |
| Coumaphos | NA | NA | NA | NA | NA |
| Demeton-O,S | NA | NA | NA | NA | NA |
| Diazinon | NA | NA | NA | NA | NA |
| Dichlorvos | NA | NA | NA | NA | NA |
| Disulfoton | NA | NA | NA | NA | NA |
| Ethoprop | NA | NA | NA | NA | NA |
| Fensulfothion | NA | NA | NA | NA | NA |
| Fenthion | NA | NA | NA | NA | NA |
| Malathion | NA | NA | NA | NA | NA |
| Parathion Methyl | NA | NA | NA | NA | NA |
| Merphos | NA | NA | NA | NA | NA |
| Mevinphos | NA | NA | NA | NA | NA |
| Naled | NA | NA | NA | NA | NA |
| Phorate | NA | NA | NA | NA | NA |
| Ronnel | NA | NA | NA | NA | NA |
| Stirophos | NA | NA | NA | NA | NA |
| Tokuthion (Prothiofos) | NA | NA | NA | NA | NA |
| Trichloronate | NA | NA | NA | NA | NA |
| Metals | | | | | |
| Arsenic (7060) | NA | NA | NA | NA | NA |
| Barium (6010) | NA | NA | NA | NA | NA |
| Cadmium (6010) | NA | NA | NA | NA | NA |
| Chromium (6010) | NA | NA | NA | NA | NA |
| Lead (7421) | NA | NA | NA | NA | NA |
| Mercury (7471) | NA | NA | NA | NA | NA |
| Selenium (7740) | NA | NA | NA | NA | NA |
| Silver (6010) | NA | NA | NA | NA | NA |
| EPA Method 8290 | | | | | |
| OCDD | NA | NA | NA | NA | NA |
| OCDF | NA | NA | NA | NA | NA |
| Total HpCDD | NA | NA | NA | NA | NA |
| Total HpCDF | NA | NA | NA | NA | NA |
| Total HxCDD | NA | NA | NA | NA | NA |
| Total HxCDF | NA | NA | NA | NA | NA |
| Total PeCDD | NA | NA | NA | NA | NA |
| Total PeCDF | NA | NA | NA | NA | NA |
| Total TCDD | NA | NA | NA | NA | NA |
| Total TCDF | NA | NA | NA | NA | NA |

# 1993 OU1, PSE2 Soil Data

| Sample Number | 93FW0539SL | 93FW0540SL | 93FW0541SL | 93FW0542SL | 93FW0543SL |
|---|---|---|---|---|---|
| Lab Code | K4019-13 | K4066-6 | K4066-7 | K4066-8 | K4066-9 |
| Date | 7/8/93 | 7/9/93 | 7/9/93 | 7/9/93 | 7/9/93 |
| Location | AP-5973 | AP-5974 | AP-5974 | AP-5974 | AP-5975 |
| Depth | 15 - 16.5 | 5 - 6.5 | 10 - 11.5 | 15 - 16.5 | 5 - 6.5 |
| Type | PR | PR | PR | PR | PR |
| Analyte | | | | | |
| EPA Methods 3540/8100 DRO | | | | | |
| DRO | ND(10.00) | 18.00 | 383.00 | 1140.00 | ND(10.00) |
| EPA Methods 5030/8015 GRO | | | | | |
| GRO | ND(5.00) | ND(5.00) | 622.00 | 3,700(a) | ND(5.00) |
| EPA Method 8290 | | | | | |
| 1,2,3,4,6,7,8-HpCDD | NA | NA | NA | NA | NA |
| 1,2,3,4,6,7,8-HpCDF | NA | NA | NA | NA | NA |
| 1,2,3,4,7,8,9-HpCDF | NA | NA | NA | NA | NA |
| 1,2,3,4,7,8-HxCDD | NA | NA | NA | NA | NA |
| 1,2,3,4,7,8-HxCDF | NA | NA | NA | NA | NA |
| 1,2,3,6,7,8-HxCDD | NA | NA | NA | NA | NA |
| 1,2,3,6,7,8-HxCDF | NA | NA | NA | NA | NA |
| 1,2,3,7,8,9-HxCDD | NA | NA | NA | NA | NA |
| 1,2,3,7,8,9-HxCDF | NA | NA | NA | NA | NA |
| 1,2,3,7,8-PeCDD | NA | NA | NA | NA | NA |
| 1,2,3,7,8-PeCDF | NA | NA | NA | NA | NA |
| 2,3,4,6,7,8-HxCDF | NA | NA | NA | NA | NA |
| 2,3,4,7,8-PeCDF | NA | NA | NA | NA | NA |
| 2,3,7,8-TCDD | NA | NA | NA | NA | NA |
| 2,3,7,8-TCDF | NA | NA | NA | NA | NA |
| EPA Methods 3550/8270 | | | | | |
| 1,2,4-Trichlorobenzene | ND(0.30) | ND(0.30) | ND(0.30) | ND(3.00) | ND(0.30) |
| 1,2-Dichlorobenzene | ND(0.30) | ND(0.30) | ND(0.30) | ND(3.00) | ND(0.30) |
| 1,3-Dichlorobenzene | ND(0.30) | ND(0.30) | ND(0.30) | ND(3.00) | ND(0.30) |
| 1,4-Dichlorobenzene | ND(0.30) | ND(0.30) | ND(0.30) | ND(3.00) | ND(0.30) |
| 2,4,5-Trichlorophenol | ND(0.30) | ND(0.30) | ND(0.30) | ND(3.00) | ND(0.30) |
| 2,4,6-Trichlorophenol | ND(0.30) | ND(0.30) | ND(0.30) | ND(3.00) | ND(0.30) |
| 2,4-Dichlorophenol | ND(0.30) | ND(0.30) | ND(0.30) | ND(3.00) | ND(0.30) |
| 2,4-Dimethylphenol | ND(0.30) | ND(0.30) | ND(0.30) | ND(3.00) | ND(0.30) |
| 2,4-Dinitrophenol | ND(2.00) | ND(2.00) | ND(2.00) | ND(20.00) | ND(2.00) |
| 2,4-Dinitrotoluene | ND(0.30) | ND(0.30) | ND(0.30) | ND(3.00) | ND(0.30) |
| 2,6-Dinitrotoluene | ND(0.30) | ND(0.30) | ND(0.30) | ND(3.00) | ND(0.30) |
| 2-Chloronaphthalene | ND(0.30) | ND(0.30) | ND(0.30) | ND(3.00) | ND(0.30) |
| 2-Chlorophenol | ND(0.30) | ND(0.30) | ND(0.30) | ND(3.00) | ND(0.30) |
| 2-Methyl-4,6-dinitrophenol | ND(2.00) | ND(2.00) | ND(2.00) | ND(20.00) | ND(2.00) |
| 2-Methylnaphthalene | ND(0.30) | ND(0.30) | 2 | 9 | ND(0.30) |
| 2-Methylphenol | ND(0.30) | ND(0.30) | ND(0.30) | ND(3.00) | ND(0.30) |
| 2-Nitroaniline | ND(2.00) | ND(2.00) | ND(2.00) | ND(20.00) | ND(2.00) |
| 2-Nitrophenol | ND(0.30) | ND(0.30) | ND(0.30) | ND(3.00) | ND(0.30) |
| 3,3'-Dichlorobenzidine | ND(2.00) | ND(2.00) | ND(2.00) | ND(20.00) | ND(2.00) |
| 3- and 4-Methylphenol_ | ND(0.30) | ND(0.30) | ND(0.30) | ND(3.00) | ND(0.30) |
| 3-Nitroaniline | ND(2.00) | ND(2.00) | ND(2.00) | ND(20.00) | ND(2.00) |
| 4-Bromophenyl Phenyl Ether | ND(0.30) | ND(0.30) | ND(0.30) | ND(3.00) | ND(0.30) |
| 4-Chloro-3-methylphenol | ND(0.30) | ND(0.30) | ND(0.30) | ND(3.00) | ND(0.30) |
| 4-Chloroaniline | ND(0.30) | ND(0.30) | ND(0.30) | ND(3.00) | ND(0.30) |
| 4-Chlorophenyl Phenyl Ether | ND(0.30) | ND(0.30) | ND(0.30) | ND(3.00) | ND(0.30) |
| 4-Nitroaniline | ND(2.00) | ND(2.00) | ND(2.00) | ND(20.00) | ND(2.00) |
| 4-Nitrophenol | ND(2.00) | ND(2.00) | ND(2.00) | ND(20.00) | ND(2.00) |
| Acenaphthene | ND(0.30) | ND(0.30) | ND(0.30) | ND(3.00) | ND(0.30) |
| Acenaphthylene | ND(0.30) | ND(0.30) | ND(0.30) | ND(3.00) | ND(0.30) |
| Aniline | ND(1.00) | ND(1.00) | ND(1.00) | ND(10.00) | ND(1.00) |
| Anthracene | ND(0.30) | ND(0.30) | ND(0.30) | ND(3.00) | ND(0.30) |
| Benz(a)anthracene | ND(0.30) | ND(0.30) | ND(0.30) | ND(3.00) | ND(0.30) |
| Benzo(a)pyrene | ND(0.30) | ND(0.30) | ND(0.30) | ND(3.00) | ND(0.30) |
| Benzo(b)fluoranthene | ND(0.30) | ND(0.30) | ND(0.30) | ND(3.00) | ND(0.30) |
| Benzo(g,h,i)perylene | ND(0.30) | ND(0.30) | ND(0.30) | ND(3.00) | ND(0.30) |
| Benzo(k)fluoranthene | ND(0.30) | ND(0.30) | ND(0.30) | ND(3.00) | ND(0.30) |
| Benzoic Acid | ND(2.00) | ND(2.00) | ND(2.00) | ND(20.00) | ND(2.00) |
| Benzyl Alcohol | ND(0.30) | ND(0.30) | ND(0.30) | ND(3.00) | ND(0.30) |
| Bis(2-chloroethoxy)methane | ND(0.30) | ND(0.30) | ND(0.30) | ND(3.00) | ND(0.30) |
| Bis(2-chloroethyl) Ether | ND(0.30) | ND(0.30) | ND(0.30) | ND(3.00) | ND(0.30) |

# 1993 OU1, PSE2 Soil Data

| Sample Number | 93FW0539SL | 93FW0540SL | 93FW0541SL | 93FW0542SL | 93FW0543SL |
|---|---|---|---|---|---|
| Lab Code | K4019-13 | K4066-6 | K4066-7 | K4066-8 | K4066-9 |
| Date | 7/8/93 | 7/9/93 | 7/9/93 | 7/9/93 | 7/9/93 |
| Location | AP-5973 | AP-5974 | AP-5974 | AP-5974 | AP-5975 |
| Depth | 15 - 16.5 | 5 - 6.5 | 10 - 11.5 | 15 - 16.5 | 5 - 6.5 |
| Type | PR | PR | PR | PR | PR |
| Analyte | | | | | |
| Bis(2-chloroisopropyl) Ether | ND(0.30) | ND(0.30) | ND(0.30) | ND(3.00) | ND(0.30) |
| Bis(2-ethylhexyl) Phthalate | ND(0.30) | ND(0.30) | ND(0.30) | ND(3.00) | ND(0.30) |
| Butylbenzyl Phthalate | ND(0.30) | ND(0.30) | ND(0.30) | ND(3.00) | ND(0.30) |
| Chrysene | ND(0.30) | ND(0.30) | ND(0.30) | ND(3.00) | ND(0.30) |
| Di-n-butyl Phthalate | ND(0.30) | ND(0.30) | ND(0.30) | ND(3.00) | ND(0.30) |
| Di-n-octyl Phthalate | ND(0.30) | ND(0.30) | ND(0.30) | ND(3.00) | ND(0.30) |
| Dibenz(a,h)anthracene | ND(0.30) | ND(0.30) | ND(0.30) | ND(3.00) | ND(0.30) |
| Dibenzofuran | ND(0.30) | ND(0.30) | ND(0.30) | ND(3.00) | ND(0.30) |
| Diethyl Phthalate | ND(0.30) | ND(0.30) | ND(0.30) | ND(3.00) | ND(0.30) |
| Dimethyl Phthalate | ND(0.30) | ND(0.30) | ND(0.30) | ND(3.00) | ND(0.30) |
| Fluoranthene | ND(0.30) | ND(0.30) | ND(0.30) | ND(3.00) | ND(0.30) |
| Fluorene | ND(0.30) | ND(0.30) | ND(0.30) | ND(3.00) | ND(0.30) |
| Hexachlorobenzene | ND(0.30) | ND(0.30) | ND(0.30) | ND(3.00) | ND(0.30) |
| Hexachlorobutadiene | ND(0.30) | ND(0.30) | ND(0.30) | ND(3.00) | ND(0.30) |
| Hexachlorocyclopentadiene | ND(0.30) | ND(0.30) | ND(0.30) | ND(3.00) | ND(0.30) |
| Hexachloroethane | ND(0.30) | ND(0.30) | ND(0.30) | ND(3.00) | ND(0.30) |
| Indeno(1,2,3-c,d)pyrene | ND(0.30) | ND(0.30) | ND(0.30) | ND(3.00) | ND(0.30) |
| Isophorone | ND(0.30) | ND(0.30) | ND(0.30) | ND(3.00) | ND(0.30) |
| N-Nitrosodi-n-propylamine | ND(0.30) | ND(0.30) | ND(0.30) | ND(3.00) | ND(0.30) |
| N-Nitrosodimethylamine | ND(2.00) | ND(2.00) | ND(2.00) | ND(20.00) | ND(2.00) |
| N-Nitrosodiphenylamine | ND(0.30) | ND(0.30) | ND(0.30) | ND(3.00) | ND(0.30) |
| Naphthalene | ND(0.30) | ND(0.30) | 0.9 | 5 | ND(0.30) |
| Nitrobenzene | ND(0.30) | ND(0.30) | ND(0.30) | ND(3.00) | ND(0.30) |
| Pentachlorophenol | ND(2.00) | ND(2.00) | ND(2.00) | ND(20.00) | ND(2.00) |
| Phenanthrene | ND(0.30) | ND(0.30) | ND(0.30) | ND(3.00) | ND(0.30) |
| Phenol | ND(0.30) | ND(0.30) | ND(0.30) | ND(3.00) | ND(0.30) |
| Pyrene | ND(0.30) | ND(0.30) | ND(0.30) | ND(3.00) | ND(0.30) |
| EPA Methods 3550M /8150M | | | | | |
| 2,4,5-T | NA | NA | NA | NA | NA |
| 2,4,5-TP (Silvex) | NA | NA | NA | NA | NA |
| 2,4-D | NA | NA | NA | NA | NA |
| 2,4-DB | NA | NA | NA | NA | NA |
| Dalapon | NA | NA | NA | NA | NA |
| Dicamba | NA | NA | NA | NA | NA |
| Dichloroprop | NA | NA | NA | NA | NA |
| Dinoseb | NA | NA | NA | NA | NA |
| MCPA | NA | NA | NA | NA | NA |
| MCPP | NA | NA | NA | NA | NA |
| EPA Methods 3540/8080 | | | | | |
| 4,4'-DDD | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| 4,4'-DDE | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| 4,4'-DDT | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Aldrin | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Alpha-BHC | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Aroclor 1016 | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) |
| Aroclor 1221 | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) |
| Aroclor 1232 | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) |
| Aroclor 1242 | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) |
| Aroclor 1248 | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) |
| Aroclor 1254 | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) |
| Aroclor 1260 | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) |
| Beta-BHC | ND(0.03) | ND(0.03) | ND(0.03) | ND(0.03) | ND(0.03) |
| Chlordane | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) |
| Delta-BHC | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Dieldrin | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Endosulfan I | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Endosulfan II | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Endosulfan Sulfate | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Endrin | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Endrin Aldehyde | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Gamma-BHC (Lindane) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |

# 1993 OU1, PSE2 Soil Data

| Sample Number | 93FW0539SL | 93FW0540SL | 93FW0541SL | 93FW0542SL | 93FW0543SL |
|---|---|---|---|---|---|
| Lab Code | K4019-13 | K4066-6 | K4066-7 | K4066-8 | K4066-9 |
| Date | 7/8/93 | 7/9/93 | 7/9/93 | 7/9/93 | 7/9/93 |
| Location | AP-5973 | AP-5974 | AP-5974 | AP-5974 | AP-5975 |
| Depth | 15 - 16.5 | 5 - 6.5 | 10 - 11.5 | 15 - 16.5 | 5 - 6.5 |
| Type | PR | PR | PR | PR | PR |
| Analyte | | | | | |
| Heptachlor | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Heptachlor Epoxide | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) | ND(0.01) |
| Methoxychlor | ND(0.02) | ND(0.02) | ND(0.02) | ND(0.02) | ND(0.02) |
| Toxaphene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| EPA Methods 3540/8140 | | | | | |
| Azinphos Methyl | NA | NA | NA | NA | NA |
| Bolstar | NA | NA | NA | NA | NA |
| Chlorpyrifos | NA | NA | NA | NA | NA |
| Coumaphos | NA | NA | NA | NA | NA |
| Demeton-O,S | NA | NA | NA | NA | NA |
| Diazinon | NA | NA | NA | NA | NA |
| Dichlorvos | NA | NA | NA | NA | NA |
| Disulfoton | NA | NA | NA | NA | NA |
| Ethoprop | NA | NA | NA | NA | NA |
| Fensulfothion | NA | NA | NA | NA | NA |
| Fenthion | NA | NA | NA | NA | NA |
| Malathion | NA | NA | NA | NA | NA |
| Parathion Methyl | NA | NA | NA | NA | NA |
| Merphos | NA | NA | NA | NA | NA |
| Mevinphos | NA | NA | NA | NA | NA |
| Naled | NA | NA | NA | NA | NA |
| Phorate | NA | NA | NA | NA | NA |
| Ronnel | NA | NA | NA | NA | NA |
| Stirophos | NA | NA | NA | NA | NA |
| Tokuthion (Prothiofos) | NA | NA | NA | NA | NA |
| Trichloronate | NA | NA | NA | NA | NA |
| Metals | | | | | |
| Arsenic (7060) | NA | NA | NA | NA | NA |
| Barium (6010) | NA | NA | NA | NA | NA |
| Cadmium (6010) | NA | NA | NA | NA | NA |
| Chromium (6010) | NA | NA | NA | NA | NA |
| Lead (7421) | NA | NA | NA | NA | NA |
| Mercury (7471) | NA | NA | NA | NA | NA |
| Selenium (7740) | NA | NA | NA | NA | NA |
| Silver (6010) | NA | NA | NA | NA | NA |
| EPA Method 8290 | | | | | |
| OCDD | NA | NA | NA | NA | NA |
| OCDF | NA | NA | NA | NA | NA |
| Total HpCDD | NA | NA | NA | NA | NA |
| Total HpCDF | NA | NA | NA | NA | NA |
| Total HxCDD | NA | NA | NA | NA | NA |
| Total HxCDF | NA | NA | NA | NA | NA |
| Total PeCDD | NA | NA | NA | NA | NA |
| Total PeCDF | NA | NA | NA | NA | NA |
| Total TCDD | NA | NA | NA | NA | NA |
| Total TCDF | NA | NA | NA | NA | NA |

# 1993 OU1, PSE2 Soil Data

| Sample Number | 93FW0544SL | 93FW0545SL | 93FW0546SL | 93FW0547SL | 93FW0548SL |
|---|---|---|---|---|---|
| Lab Code | K4066-10 | K4066-11 | K4313-1 | K4313-2 | K4313-3 |
| Date | 7/9/93 | 7/9/93 | 7/22/93 | 7/22/93 | 7/22/93 |
| Location | AP-5975 | AP-5975 | 1599-21SS | 1599-22SS | 1599-23SS |
| Depth | 10 - 11.5 | 15 - 16.5 | 0 - 1 | 0 - 1 | 0 - 1 |
| Type | PR | PR | PR | PR | PR |
| Analyte | | | | | |
| EPA Methods 3540/8100 DRO | | | | | |
| DRO | ND(10.00) | ND(10.00) | 135 | 165 | 104 |
| EPA Methods 5030/8015 GRO | | | | | |
| GRO | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| EPA Method 8290 | | | | | |
| 1,2,3,4,6,7,8-HpCDD | NA | NA | NA | NA | NA |
| 1,2,3,4,6,7,8-HpCDF | NA | NA | NA | NA | NA |
| 1,2,3,4,7,8,9-HpCDF | NA | NA | NA | NA | NA |
| 1,2,3,4,7,8-HxCDD | NA | NA | NA | NA | NA |
| 1,2,3,4,7,8-HxCDF | NA | NA | NA | NA | NA |
| 1,2,3,6,7,8-HxCDD | NA | NA | NA | NA | NA |
| 1,2,3,6,7,8-HxCDF | NA | NA | NA | NA | NA |
| 1,2,3,7,8,9-HxCDD | NA | NA | NA | NA | NA |
| 1,2,3,7,8,9-HxCDF | NA | NA | NA | NA | NA |
| 1,2,3,7,8-PeCDD | NA | NA | NA | NA | NA |
| 1,2,3,7,8-PeCDF | NA | NA | NA | NA | NA |
| 2,3,4,6,7,8-HxCDF | NA | NA | NA | NA | NA |
| 2,3,4,7,8-PeCDF | NA | NA | NA | NA | NA |
| 2,3,7,8-TCDD | NA | NA | NA | NA | NA |
| 2,3,7,8-TCDF | NA | NA | NA | NA | NA |
| EPA Methods 3550/8270 | | | | | |
| 1,2,4-Trichlorobenzene | ND(0.30) | ND(0.30) | ND(1.50) | ND(1.50) | ND(1.50) |
| 1,2-Dichlorobenzene | ND(0.30) | ND(0.30) | ND(1.50) | ND(1.50) | ND(1.50) |
| 1,3-Dichlorobenzene | ND(0.30) | ND(0.30) | ND(1.50) | ND(1.50) | ND(1.50) |
| 1,4-Dichlorobenzene | ND(0.30) | ND(0.30) | ND(1.50) | ND(1.50) | ND(1.50) |
| 2,4,5-Trichlorophenol | ND(0.30) | ND(0.30) | ND(1.50) | ND(1.50) | ND(1.50) |
| 2,4,6-Trichlorophenol | ND(0.30) | ND(0.30) | ND(1.50) | ND(1.50) | ND(1.50) |
| 2,4-Dichlorophenol | ND(0.30) | ND(0.30) | ND(1.50) | ND(1.50) | ND(1.50) |
| 2,4-Dimethylphenol | ND(0.30) | ND(0.30) | ND(1.50) | ND(1.50) | ND(1.50) |
| 2,4-Dinitrophenol | ND(2.00) | ND(2.00) | ND(10.00) | ND(10.00) | ND(10.00) |
| 2,4-Dinitrotoluene | ND(0.30) | ND(0.30) | ND(1.50) | ND(1.50) | ND(1.50) |
| 2,6-Dinitrotoluene | ND(0.30) | ND(0.30) | ND(1.50) | ND(1.50) | ND(1.50) |
| 2-Chloronaphthalene | ND(0.30) | ND(0.30) | ND(1.50) | ND(1.50) | ND(1.50) |
| 2-Chlorophenol | ND(0.30) | ND(0.30) | ND(1.50) | ND(1.50) | ND(1.50) |
| 2-Methyl-4,6-dinitrophenol | ND(2.00) | ND(2.00) | ND(10.00) | ND(10.00) | ND(10.00) |
| 2-Methylnaphthalene | ND(0.30) | ND(0.30) | ND(1.50) | ND(1.50) | ND(1.50) |
| 2-Methylphenol | ND(0.30) | ND(0.30) | ND(1.50) | ND(1.50) | ND(1.50) |
| 2-Nitroaniline | ND(2.00) | ND(2.00) | ND(10.00) | ND(10.00) | ND(10.00) |
| 2-Nitrophenol | ND(0.30) | ND(0.30) | ND(1.50) | ND(1.50) | ND(1.50) |
| 3,3'-Dichlorobenzidine | ND(2.00) | ND(2.00) | ND(10.00) | ND(10.00) | ND(10.00) |
| 3- and 4-Methylphenol_ | ND(0.30) | ND(0.30) | ND(1.50) | ND(1.50) | ND(1.50) |
| 3-Nitroaniline | ND(2.00) | ND(2.00) | ND(10.00) | ND(10.00) | ND(10.00) |
| 4-Bromophenyl Phenyl Ether | ND(0.30) | ND(0.30) | ND(1.50) | ND(1.50) | ND(1.50) |
| 4-Chloro-3-methylphenol | ND(0.30) | ND(0.30) | ND(1.50) | ND(1.50) | ND(1.50) |
| 4-Chloroaniline | ND(0.30) | ND(0.30) | ND(1.50) | ND(1.50) | ND(1.50) |
| 4-Chlorophenyl Phenyl Ether | ND(0.30) | ND(0.30) | ND(1.50) | ND(1.50) | ND(1.50) |
| 4-Nitroaniline | ND(2.00) | ND(2.00) | ND(10.00) | ND(10.00) | ND(10.00) |
| 4-Nitrophenol | ND(2.00) | ND(2.00) | ND(10.00) | ND(10.00) | ND(10.00) |
| Acenaphthene | ND(0.30) | ND(0.30) | ND(1.50) | ND(1.50) | ND(1.50) |
| Acenaphthylene | ND(0.30) | ND(0.30) | ND(1.50) | ND(1.50) | ND(1.50) |
| Aniline | ND(1.00) | ND(1.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Anthracene | ND(0.30) | ND(0.30) | ND(1.50) | ND(1.50) | ND(1.50) |
| Benz(a)anthracene | ND(0.30) | ND(0.30) | ND(1.50) | ND(1.50) | ND(1.50) |
| Benzo(a)pyrene | ND(0.30) | ND(0.30) | ND(1.50) | ND(1.50) | ND(1.50) |
| Benzo(b)fluoranthene | ND(0.30) | ND(0.30) | ND(1.50) | ND(1.50) | ND(1.50) |
| Benzo(g,h,i)perylene | ND(0.30) | ND(0.30) | ND(1.50) | ND(1.50) | ND(1.50) |
| Benzo(k)fluoranthene | ND(0.30) | ND(0.30) | ND(1.50) | ND(1.50) | ND(1.50) |
| Benzoic Acid | ND(2.00) | ND(2.00) | ND(10.00) | ND(10.00) | ND(10.00) |
| Benzyl Alcohol | ND(0.30) | ND(0.30) | ND(1.50) | ND(1.50) | ND(1.50) |
| Bis(2-chloroethoxy)methane | ND(0.30) | ND(0.30) | ND(1.50) | ND(1.50) | ND(1.50) |
| Bis(2-chloroethyl) Ether | ND(0.30) | ND(0.30) | ND(1.50) | ND(1.50) | ND(1.50) |

# 1993 OU1, PSE2 Soil Data

| Sample Number | 93FW0544SL | 93FW0545SL | 93FW0546SL | 93FW0547SL | 93FW0548SL |
|---|---|---|---|---|---|
| Lab Code | K4066-10 | K4066-11 | K4313-1 | K4313-2 | K4313-3 |
| Date | 7/9/93 | 7/9/93 | 7/22/93 | 7/22/93 | 7/22/93 |
| Location | AP-5975 | AP-5975 | 1599-21SS | 1599-22SS | 1599-23SS |
| Depth | 10 - 11.5 | 15 - 16.5 | 0 - 1 | 0 - 1 | 0 - 1 |
| Type | PR | PR | PR | PR | PR |
| Analyte | | | | | |
| Bis(2-chloroisopropyl) Ether | ND(0.30) | ND(0.30) | ND(1.50) | ND(1.50) | ND(1.50) |
| Bis(2-ethylhexyl) Phthalate | ND(0.30) | ND(0.30) | ND(1.50) | ND(1.50) | ND(1.50) |
| Butylbenzyl Phthalate | ND(0.30) | ND(0.30) | ND(1.50) | ND(1.50) | ND(1.50) |
| Chrysene | ND(0.30) | ND(0.30) | ND(1.50) | ND(1.50) | ND(1.50) |
| Di-n-butyl Phthalate | ND(0.30) | ND(0.30) | ND(1.50) | ND(1.50) | ND(1.50) |
| Di-n-octyl Phthalate | ND(0.30) | ND(0.30) | ND(1.50) | ND(1.50) | ND(1.50) |
| Dibenz(a,h)anthracene | ND(0.30) | ND(0.30) | ND(1.50) | ND(1.50) | ND(1.50) |
| Dibenzofuran | ND(0.30) | ND(0.30) | ND(1.50) | ND(1.50) | ND(1.50) |
| Diethyl Phthalate | ND(0.30) | ND(0.30) | ND(1.50) | ND(1.50) | ND(1.50) |
| Dimethyl Phthalate | ND(0.30) | ND(0.30) | ND(1.50) | ND(1.50) | ND(1.50) |
| Fluoranthene | ND(0.30) | ND(0.30) | ND(1.50) | ND(1.50) | ND(1.50) |
| Fluorene | ND(0.30) | ND(0.30) | ND(1.50) | ND(1.50) | ND(1.50) |
| Hexachlorobenzene | ND(0.30) | ND(0.30) | ND(1.50) | ND(1.50) | ND(1.50) |
| Hexachlorobutadiene | ND(0.30) | ND(0.30) | ND(1.50) | ND(1.50) | ND(1.50) |
| Hexachlorocyclopentadiene | ND(0.30) | ND(0.30) | ND(1.50) | ND(1.50) | ND(1.50) |
| Hexachloroethane | ND(0.30) | ND(0.30) | ND(1.50) | ND(1.50) | ND(1.50) |
| Indeno(1,2,3-c,d)pyrene | ND(0.30) | ND(0.30) | ND(1.50) | ND(1.50) | ND(1.50) |
| Isophorone | ND(0.30) | ND(0.30) | ND(1.50) | ND(1.50) | ND(1.50) |
| N-Nitrosodi-n-propylamine | ND(0.30) | ND(0.30) | ND(1.50) | ND(1.50) | ND(1.50) |
| N-Nitrosodimethylamine | ND(2.00) | ND(2.00) | ND(10.00) | ND(10.00) | ND(10.00) |
| N-Nitrosodiphenylamine | ND(0.30) | ND(0.30) | ND(1.50) | ND(1.50) | ND(1.50) |
| Naphthalene | ND(0.30) | ND(0.30) | ND(1.50) | ND(1.50) | ND(1.50) |
| Nitrobenzene | ND(0.30) | ND(0.30) | ND(1.50) | ND(1.50) | ND(1.50) |
| Pentachlorophenol | ND(2.00) | ND(2.00) | ND(10.00) | ND(10.00) | ND(10.00) |
| Phenanthrene | ND(0.30) | ND(0.30) | ND(1.50) | ND(1.50) | ND(1.50) |
| Phenol | ND(0.30) | ND(0.30) | ND(1.50) | ND(1.50) | ND(1.50) |
| Pyrene | ND(0.30) | ND(0.30) | ND(1.50) | ND(1.50) | ND(1.50) |
| EPA Methods 3550M /8150M | | | | | |
| 2,4,5-T | NA | NA | NA | NA | NA |
| 2,4,5-TP (Silvex) | NA | NA | NA | NA | NA |
| 2,4-D | NA | NA | NA | NA | NA |
| 2,4-DB | NA | NA | NA | NA | NA |
| Dalapon | NA | NA | NA | NA | NA |
| Dicamba | NA | NA | NA | NA | NA |
| Dichloroprop | NA | NA | NA | NA | NA |
| Dinoseb | NA | NA | NA | NA | NA |
| MCPA | NA | NA | NA | NA | NA |
| MCPP | NA | NA | NA | NA | NA |
| EPA Methods 3540/8080 | | | | | |
| 4,4'-DDD | ND(0.01) | ND(0.01) | a<2 | a<1 | 1.20 |
| 4,4'-DDE | ND(0.01) | ND(0.01) | 0.94 | 0.72 | 0.36 |
| 4,4'-DDT | ND(0.01) | ND(0.01) | 9.50 | 6.40 | 2.00 |
| Aldrin | ND(0.01) | ND(0.01) | a<0.1 | a<0.1 | a<0.1 |
| Alpha-BHC | ND(0.01) | ND(0.01) | a<0.1 | a<0.1 | a<0.1 |
| Aroclor 1016 | ND(0.10) | ND(0.10) | a<15 | a<15 | a<3 |
| Aroclor 1221 | ND(0.10) | ND(0.10) | a<15 | a<15 | a<3 |
| Aroclor 1232 | ND(0.10) | ND(0.10) | a<15 | a<15 | a<3 |
| Aroclor 1242 | ND(0.10) | ND(0.10) | a<15 | a<15 | a<3 |
| Aroclor 1248 | ND(0.10) | ND(0.10) | a<15 | a<15 | a<3 |
| Aroclor 1254 | ND(0.10) | ND(0.10) | a<15 | a<15 | a<3 |
| Aroclor 1260 | ND(0.10) | ND(0.10) | a<15 | a<15 | a<3 |
| Beta-BHC | ND(0.03) | ND(0.03) | a<0.3 | a<0.3 | a<0.3 |
| Chlordane | ND(0.10) | ND(0.10) | a<15 | a<15 | a<3 |
| Delta-BHC | ND(0.01) | ND(0.01) | a<0.1 | a<0.1 | a<0.1 |
| Dieldrin | ND(0.01) | ND(0.01) | 0.48 | 0.49 | 0.85 |
| Endosulfan I | ND(0.01) | ND(0.01) | a<0.1 | a<0.1 | a<0.1 |
| Endosulfan II | ND(0.01) | ND(0.01) | a<0.1 | a<0.1 | a<0.1 |
| Endosulfan Sulfate | ND(0.01) | ND(0.01) | a<0.1 | a<0.1 | a<0.1 |
| Endrin | ND(0.01) | ND(0.01) | a<0.1 | a<0.1 | a<0.1 |
| Endrin Aldehyde | ND(0.01) | ND(0.01) | a<0.1 | a<0.1 | a<0.1 |
| Gamma-BHC (Lindane) | ND(0.01) | ND(0.01) | a<0.1 | a<0.1 | a<0.1 |

# 1993 OU1, PSE2 Soil Data

| Sample Number | 93FW0544SL | 93FW0545SL | 93FW0546SL | 93FW0547SL | 93FW0548SL |
|---|---|---|---|---|---|
| Lab Code | K4066-10 | K4066-11 | K4313-1 | K4313-2 | K4313-3 |
| Date | 7/9/93 | 7/9/93 | 7/22/93 | 7/22/93 | 7/22/93 |
| Location | AP-5975 | AP-5975 | 1599-21SS | 1599-22SS | 1599-23SS |
| Depth | 10 - 11.5 | 15 - 16.5 | 0 - 1 | 0 - 1 | 0 - 1 |
| Type | PR | PR | PR | PR | PR |
| Analyte | | | | | |
| Heptachlor | ND(0.01) | ND(0.01) | a<0.1 | a<0.1 | a<0.1 |
| Heptachlor Epoxide | ND(0.01) | ND(0.01) | a<0.1 | a<0.1 | a<0.1 |
| Methoxychlor | ND(0.02) | ND(0.02) | a<0.2 | a<0.2 | a<0.2 |
| Toxaphene | ND(0.30) | ND(0.30) | a<45 | a<45 | a<9 |
| EPA Methods 3540/8140 | | | | | |
| Azinphos Methyl | NA | NA | NA | NA | NA |
| Bolstar | NA | NA | NA | NA | NA |
| Chlorpyrifos | NA | NA | NA | NA | NA |
| Coumaphos | NA | NA | NA | NA | NA |
| Demeton-O,S | NA | NA | NA | NA | NA |
| Diazinon | NA | NA | NA | NA | NA |
| Dichlorvos | NA | NA | NA | NA | NA |
| Disulfoton | NA | NA | NA | NA | NA |
| Ethoprop | NA | NA | NA | NA | NA |
| Fensulfothion | NA | NA | NA | NA | NA |
| Fenthion | NA | NA | NA | NA | NA |
| Malathion | NA | NA | NA | NA | NA |
| Parathion Methyl | NA | NA | NA | NA | NA |
| Merphos | NA | NA | NA | NA | NA |
| Mevinphos | NA | NA | NA | NA | NA |
| Naled | NA | NA | NA | NA | NA |
| Phorate | NA | NA | NA | NA | NA |
| Ronnel | NA | NA | NA | NA | NA |
| Stirophos | NA | NA | NA | NA | NA |
| Tokuthion (Prothiofos) | NA | NA | NA | NA | NA |
| Trichloronate | NA | NA | NA | NA | NA |
| Metals | | | | | |
| Arsenic (7060) | NA | NA | NA | NA | NA |
| Barium (6010) | NA | NA | NA | NA | NA |
| Cadmium (6010) | NA | NA | NA | NA | NA |
| Chromium (6010) | NA | NA | NA | NA | NA |
| Lead (7421) | NA | NA | NA | NA | NA |
| Mercury (7471) | NA | NA | NA | NA | NA |
| Selenium (7740) | NA | NA | NA | NA | NA |
| Silver (6010) | NA | NA | NA | NA | NA |
| EPA Method 8290 | | | | | |
| OCDD | NA | NA | NA | NA | NA |
| OCDF | NA | NA | NA | NA | NA |
| Total HpCDD | NA | NA | NA | NA | NA |
| Total HpCDF | NA | NA | NA | NA | NA |
| Total HxCDD | NA | NA | NA | NA | NA |
| Total HxCDF | NA | NA | NA | NA | NA |
| Total PeCDD | NA | NA | NA | NA | NA |
| Total PeCDF | NA | NA | NA | NA | NA |
| Total TCDD | NA | NA | NA | NA | NA |
| Total TCDF | NA | NA | NA | NA | NA |

# 1993 OU1, PSE2 Soil Data

| Sample Number | 93FW0549SL | 93FW0550SL | 93FW0551SL | 93FW0552SL | 93FW0553SL |
|---|---|---|---|---|---|
| Lab Code | K4313-4 | K4313-5 | K4313-6 | K4313-7 | K4313-8 |
| Date | 7/22/93 | 7/22/93 | 7/22/93 | 7/22/93 | 7/22/93 |
| Location | 1599-24SS | 1599-25SS | 1599-26SS | 1599-27SS | 1599-28SS |
| Depth | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 |
| Type | PR | PR | PR | PR | PR |
| Analyte | | | | | |
| EPA Methods 3540/8100 DRO | | | | | |
| DRO | 200 | 380 | 89 | 37 | 38 |
| EPA Methods 5030/5015 GRO | | | | | |
| GRO | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| EPA Method 8290 | | | | | |
| 1,2,3,4,6,7,8-HpCDD | NA | NA | NA | NA | NA |
| 1,2,3,4,6,7,8-HpCDF | NA | NA | NA | NA | NA |
| 1,2,3,4,7,8,9-HpCDF | NA | NA | NA | NA | NA |
| 1,2,3,4,7,8-HxCDD | NA | NA | NA | NA | NA |
| 1,2,3,4,7,8-HxCDF | NA | NA | NA | NA | NA |
| 1,2,3,6,7,8-HxCDD | NA | NA | NA | NA | NA |
| 1,2,3,6,7,8-HxCDF | NA | NA | NA | NA | NA |
| 1,2,3,7,8,9-HxCDD | NA | NA | NA | NA | NA |
| 1,2,3,7,8,9-HxCDF | NA | NA | NA | NA | NA |
| 1,2,3,7,8-PeCDD | NA | NA | NA | NA | NA |
| 1,2,3,7,8-PeCDF | NA | NA | NA | NA | NA |
| 2,3,4,6,7,8-HxCDF | NA | NA | NA | NA | NA |
| 2,3,4,7,8-PeCDF | NA | NA | NA | NA | NA |
| 2,3,7,8-TCDD | NA | NA | NA | NA | NA |
| 2,3,7,8-TCDF | NA | NA | NA | NA | NA |
| EPA Methods 3550/8270 | | | | | |
| 1,2,4-Trichlorobenzene | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) |
| 1,2-Dichlorobenzene | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) |
| 1,3-Dichlorobenzene | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) |
| 1,4-Dichlorobenzene | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) |
| 2,4,5-Trichlorophenol | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) |
| 2,4,6-Trichlorophenol | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) |
| 2,4-Dichlorophenol | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) |
| 2,4-Dimethylphenol | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) |
| 2,4-Dinitrophenol | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) |
| 2,4-Dinitrotoluene | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) |
| 2,6-Dinitrotoluene | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) |
| 2-Chloronaphthalene | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) |
| 2-Chlorophenol | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) |
| 2-Methyl-4,6-dinitrophenol | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) |
| 2-Methylnaphthalene | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) |
| 2-Methylphenol | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) |
| 2-Nitroaniline | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) |
| 2-Nitrophenol | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) |
| 3,3'-Dichlorobenzidine | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) |
| 3- and 4-Methylphenol_ | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) |
| 3-Nitroaniline | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) |
| 4-Bromophenyl Phenyl Ether | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) |
| 4-Chloro-3-methylphenol | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) |
| 4-Chloroaniline | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) |
| 4-Chlorophenyl Phenyl Ether | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) |
| 4-Nitroaniline | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) |
| 4-Nitrophenol | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) |
| Acenaphthene | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) |
| Acenaphthylene | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) |
| Aniline | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Anthracene | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) |
| Benz(a)anthracene | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) |
| Benzo(a)pyrene | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) |
| Benzo(b)fluoranthene | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) |
| Benzo(g,h,i)perylene | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) |
| Benzo(k)fluoranthene | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) |
| Benzoic Acid | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) |
| Benzyl Alcohol | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) |
| Bis(2-chloroethoxy)methane | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) |
| Bis(2-chloroethyl) Ether | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) |

# 1993 OU1, PSE2 Soil Data

| Sample Number | 93FW0549SL | 93FW0550SL | 93FW0551SL | 93FW0552SL | 93FW0553SL |
|---|---|---|---|---|---|
| Lab Code | K4313-4 | K4313-5 | K4313-6 | K4313-7 | K4313-8 |
| Date | 7/22/93 | 7/22/93 | 7/22/93 | 7/22/93 | 7/22/93 |
| Location | 1599-24SS | 1599-25SS | 1599-26SS | 1599-27SS | 1599-28SS |
| Depth | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 |
| Type | PR | PR | PR | PR | PR |
| Analyte | | | | | |
| Bis(2-chloroisopropyl) Ether | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) |
| Bis(2-ethylhexyl) Phthalate | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) |
| Butylbenzyl Phthalate | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) |
| Chrysene | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) |
| Di-n-butyl Phthalate | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) |
| Di-n-octyl Phthalate | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) |
| Dibenz(a,h)anthracene | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) |
| Dibenzofuran | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) |
| Diethyl Phthalate | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) |
| Dimethyl Phthalate | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) |
| Fluoranthene | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) |
| Fluorene | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) |
| Hexachlorobenzene | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) |
| Hexachlorobutadiene | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) |
| Hexachlorocyclopentadiene | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) |
| Hexachloroethane | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) |
| Indeno(1,2,3-c,d)pyrene | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) |
| Isophorone | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) |
| N-Nitrosodi-n-propylamine | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) |
| N-Nitrosodimethylamine | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) |
| N-Nitrosodiphenylamine | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) |
| Naphthalene | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) |
| Nitrobenzene | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) |
| Pentachlorophenol | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) |
| Phenanthrene | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) |
| Phenol | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) |
| Pyrene | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) |
| EPA Methods 3550M /8150M | | | | | |
| 2,4,5-T | NA | NA | NA | NA | NA |
| 2,4,5-TP (Silvex) | NA | NA | NA | NA | NA |
| 2,4-D | NA | NA | NA | NA | NA |
| 2,4-DB | NA | NA | NA | NA | NA |
| Dalapon | NA | NA | NA | NA | NA |
| Dicamba | NA | NA | NA | NA | NA |
| Dichloroprop | NA | NA | NA | NA | NA |
| Dinoseb | NA | NA | NA | NA | NA |
| MCPA | NA | NA | NA | NA | NA |
| MCPP | NA | NA | NA | NA | NA |
| EPA Methods 3540/8080 | | | | | |
| 4,4'-DDD | 0.16 | a<2 | 1.60 | 0.20 | 0.40 |
| 4,4'-DDE | 0.06 | 0.32 | 0.11 | 0.05 | 0.12 |
| 4,4'-DDT | 0.61 | 5.30 | 0.71 | 0.28 | 0.73 |
| Aldrin | ND(0.01) | a<0.1 | 0.24 | ND(0.01) | ND(0.01) |
| Alpha-BHC | ND(0.01) | a<0.1 | ND(0.01) | ND(0.01) | ND(0.01) |
| Aroclor 1016 | ND(0.10) | a<15 | a<15 | ND(0.10) | ND(0.10) |
| Aroclor 1221 | ND(0.10) | a<15 | a<15 | ND(0.10) | ND(0.10) |
| Aroclor 1232 | ND(0.10) | a<15 | a<15 | ND(0.10) | ND(0.10) |
| Aroclor 1242 | ND(0.10) | a<15 | a<15 | ND(0.10) | ND(0.10) |
| Aroclor 1248 | ND(0.10) | a<15 | a<15 | ND(0.10) | ND(0.10) |
| Aroclor 1254 | ND(0.10) | a<15 | a<15 | ND(0.10) | ND(0.10) |
| Aroclor 1260 | ND(0.10) | a<15 | a<15 | ND(0.10) | ND(0.10) |
| Beta-BHC | ND(0.01) | a<0.3 | ND(0.03) | ND(0.03) | ND(0.03) |
| Chlordane | ND(0.10) | a<15 | a<15 | ND(0.10) | ND(0.10) |
| Delta-BHC | ND(0.03) | a<0.1 | ND(0.01) | ND(0.01) | ND(0.01) |
| Dieldrin | 0.11 | 3.10 | 3.70 | 0.18 | 0.33 |
| Endosulfan I | ND(0.01) | a<0.1 | ND(0.01) | ND(0.01) | ND(0.01) |
| Endosulfan II | ND(0.01) | a<0.1 | a<0.1 | ND(0.01) | ND(0.01) |
| Endosulfan Sulfate | ND(0.01) | a<0.1 | a<0.1 | ND(0.01) | ND(0.01) |
| Endrin | ND(0.01) | a<0.1 | a<0.1 | ND(0.01) | ND(0.01) |
| Endrin Aldehyde | ND(0.01) | a<0.1 | a<0.1 | ND(0.01) | ND(0.01) |
| Gamma-BHC (Lindane) | ND(0.01) | a<0.1 | ND(0.01) | ND(0.01) | ND(0.01) |

# 1993 OU1, PSE2 Soil Data

| Sample Number | 93FW0549SL | 93FW0550SL | 93FW0551SL | 93FW0552SL | 93FW0553SL |
|---|---|---|---|---|---|
| Lab Code | K4313-4 | K4313-5 | K4313-6 | K4313-7 | K4313-8 |
| Date | 7/22/93 | 7/22/93 | 7/22/93 | 7/22/93 | 7/22/93 |
| Location | 1599-24SS | 1599-25SS | 1599-26SS | 1599-27SS | 1599-28SS |
| Depth | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 |
| Type | PR | PR | PR | PR | PR |
| Analyte | | | | | |
| Heptachlor | ND(0.01) | a<0.1 | ND(0.01) | ND(0.01) | ND(0.01) |
| Heptachlor Epoxide | ND(0.01) | a<0.1 | ND(0.01) | ND(0.01) | ND(0.01) |
| Methoxychlor | ND(0.02) | a<0.2 | ND(0.02) | ND(0.02) | ND(0.02) |
| Toxaphene | ND(0.30) | a<45 | a<45 | ND(0.30) | ND(0.30) |
| EPA Methods 3540/8140 | | | | | |
| Azinphos Methyl | NA | NA | NA | NA | NA |
| Bolstar | NA | NA | NA | NA | NA |
| Chlorpyrifos | NA | NA | NA | NA | NA |
| Coumaphos | NA | NA | NA | NA | NA |
| Demeton-O,S | NA | NA | NA | NA | NA |
| Diazinon | NA | NA | NA | NA | NA |
| Dichlorvos | NA | NA | NA | NA | NA |
| Disulfoton | NA | NA | NA | NA | NA |
| Ethoprop | NA | NA | NA | NA | NA |
| Fensulfothion | NA | NA | NA | NA | NA |
| Fenthion | NA | NA | NA | NA | NA |
| Malathion | NA | NA | NA | NA | NA |
| Parathion Methyl | NA | NA | NA | NA | NA |
| Merphos | NA | NA | NA | NA | NA |
| Mevinphos | NA | NA | NA | NA | NA |
| Naled | NA | NA | NA | NA | NA |
| Phorate | NA | NA | NA | NA | NA |
| Ronnel | NA | NA | NA | NA | NA |
| Stirophos | NA | NA | NA | NA | NA |
| Tokuthion (Prothiofos) | NA | NA | NA | NA | NA |
| Trichloronate | NA | NA | NA | NA | NA |
| Metals | | | | | |
| Arsenic (7060) | NA | NA | NA | NA | NA |
| Barium (6010) | NA | NA | NA | NA | NA |
| Cadmium (6010) | NA | NA | NA | NA | NA |
| Chromium (6010) | NA | NA | NA | NA | NA |
| Lead (7421) | NA | NA | NA | NA | NA |
| Mercury (7471) | NA | NA | NA | NA | NA |
| Selenium (7740) | NA | NA | NA | NA | NA |
| Silver (6010) | NA | NA | NA | NA | NA |
| EPA Method 8290 | | | | | |
| OCDD | NA | NA | NA | NA | NA |
| OCDF | NA | NA | NA | NA | NA |
| Total HpCDD | NA | NA | NA | NA | NA |
| Total HpCDF | NA | NA | NA | NA | NA |
| Total HxCDD | NA | NA | NA | NA | NA |
| Total HxCDF | NA | NA | NA | NA | NA |
| Total PeCDD | NA | NA | NA | NA | NA |
| Total PeCDF | NA | NA | NA | NA | NA |
| Total TCDD | NA | NA | NA | NA | NA |
| Total TCDF | NA | NA | NA | NA | NA |

# 1993 OU1, PSE2 Soil Data

| Sample Number | 93FW0554SL | 93FW0555SL | 93FW0701SL | 93FW0702SL | 93FW0704SL |
|---|---|---|---|---|---|
| Lab Code | K4313-9 | K4313-10 | K3946-1 | K3946-2 | K3946-3 |
| Date | 7/22/93 | 7/22/93 | 7/6/93 | 7/6/93 | 7/6/93 |
| Location | 1599-29SS | 1599-30SS | AP-5977 | AP-5977 | AP-5977 |
| Depth | 0 - 1 | 0 - 1 | 0 - 1.5 | 5 - 6.5 | 5 - 6.5 |
| Type | PR | PR | PR | PR | QC |
| Analyte | | | | | |
| EPA Methods 3540/8100 DRO | | | | | |
| DRO | 31 | 47 | 829.00 | 84.00 | 150.00 |
| EPA Methods 5030/8015 GRO | | | | | |
| GRO | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| EPA Method 8290 | | | | | |
| 1,2,3,4,6,7,8-HpCDD | NA | NA | NA | NA | NA |
| 1,2,3,4,6,7,8-HpCDF | NA | NA | NA | NA | NA |
| 1,2,3,4,7,8,9-HpCDF | NA | NA | NA | NA | NA |
| 1,2,3,4,7,8-HxCDD | NA | NA | NA | NA | NA |
| 1,2,3,4,7,8-HxCDF | NA | NA | NA | NA | NA |
| 1,2,3,6,7,8-HxCDD | NA | NA | NA | NA | NA |
| 1,2,3,6,7,8-HxCDF | NA | NA | NA | NA | NA |
| 1,2,3,7,8,9-HxCDD | NA | NA | NA | NA | NA |
| 1,2,3,7,8,9-HxCDF | NA | NA | NA | NA | NA |
| 1,2,3,7,8-PeCDD | NA | NA | NA | NA | NA |
| 1,2,3,7,8-PeCDF | NA | NA | NA | NA | NA |
| 2,3,4,6,7,8-HxCDF | NA | NA | NA | NA | NA |
| 2,3,4,7,8-PeCDF | NA | NA | NA | NA | NA |
| 2,3,7,8-TCDD | NA | NA | NA | NA | NA |
| 2,3,7,8-TCDF | NA | NA | NA | NA | NA |
| EPA Methods 3550/8270 | | | | | |
| 1,2,4-Trichlorobenzene | ND(1.50) | ND(1.50) | ND(1.50) | ND(0.30) | ND(0.30) |
| 1,2-Dichlorobenzene | ND(1.50) | ND(1.50) | ND(1.50) | ND(0.30) | ND(0.30) |
| 1,3-Dichlorobenzene | ND(1.50) | ND(1.50) | ND(1.50) | ND(0.30) | ND(0.30) |
| 1,4-Dichlorobenzene | ND(1.50) | ND(1.50) | ND(1.50) | ND(0.30) | ND(0.30) |
| 2,4,5-Trichlorophenol | ND(1.50) | ND(1.50) | ND(1.50) | ND(0.30) | ND(0.30) |
| 2,4,6-Trichlorophenol | ND(1.50) | ND(1.50) | ND(1.50) | ND(0.30) | ND(0.30) |
| 2,4-Dichlorophenol | ND(1.50) | ND(1.50) | ND(1.50) | ND(0.30) | ND(0.30) |
| 2,4-Dimethylphenol | ND(1.50) | ND(1.50) | ND(1.50) | ND(0.30) | ND(0.30) |
| 2,4-Dinitrophenol | ND(10.00) | ND(10.00) | ND(10.00) | ND(2.00) | ND(2.00) |
| 2,4-Dinitrotoluene | ND(1.50) | ND(1.50) | ND(1.50) | ND(0.30) | ND(0.30) |
| 2,6-Dinitrotoluene | ND(1.50) | ND(1.50) | ND(1.50) | ND(0.30) | ND(0.30) |
| 2-Chloronaphthalene | ND(1.50) | ND(1.50) | ND(1.50) | ND(0.30) | ND(0.30) |
| 2-Chlorophenol | ND(1.50) | ND(1.50) | ND(1.50) | ND(0.30) | ND(0.30) |
| 2-Methyl-4,6-dinitrophenol | ND(10.00) | ND(10.00) | ND(10.00) | ND(2.00) | ND(2.00) |
| 2-Methylnaphthalene | ND(1.50) | ND(1.50) | ND(1.50) | ND(0.30) | ND(0.30) |
| 2-Methylphenol | ND(1.50) | ND(1.50) | ND(1.50) | ND(0.30) | ND(0.30) |
| 2-Nitroaniline | ND(10.00) | ND(10.00) | ND(10.00) | ND(2.00) | ND(2.00) |
| 2-Nitrophenol | ND(1.50) | ND(1.50) | ND(1.50) | ND(0.30) | ND(0.30) |
| 3,3'-Dichlorobenzidine | ND(10.00) | ND(10.00) | ND(10.00) | ND(2.00) | ND(2.00) |
| 3- and 4-Methylphenol_ | ND(1.50) | ND(1.50) | ND(1.50) | ND(0.30) | ND(0.30) |
| 3-Nitroaniline | ND(10.00) | ND(10.00) | ND(10.00) | ND(2.00) | ND(2.00) |
| 4-Bromophenyl Phenyl Ether | ND(1.50) | ND(1.50) | ND(1.50) | ND(0.30) | ND(0.30) |
| 4-Chloro-3-methylphenol | ND(1.50) | ND(1.50) | ND(1.50) | ND(0.30) | ND(0.30) |
| 4-Chloroaniline | ND(1.50) | ND(1.50) | ND(1.50) | ND(0.30) | ND(0.30) |
| 4-Chlorophenyl Phenyl Ether | ND(1.50) | ND(1.50) | ND(1.50) | ND(0.30) | ND(0.30) |
| 4-Nitroaniline | ND(10.00) | ND(10.00) | ND(10.00) | ND(2.00) | ND(2.00) |
| 4-Nitrophenol | ND(10.00) | ND(10.00) | ND(10.00) | ND(2.00) | ND(2.00) |
| Acenaphthene | ND(1.50) | ND(1.50) | ND(1.50) | ND(0.30) | ND(0.30) |
| Acenaphthylene | ND(1.50) | ND(1.50) | ND(1.50) | ND(0.30) | ND(0.30) |
| Aniline | ND(5.00) | ND(5.00) | ND(5.00) | ND(1.00) | ND(1.00) |
| Anthracene | ND(1.50) | ND(1.50) | ND(1.50) | ND(0.30) | ND(0.30) |
| Benz(a)anthracene | ND(1.50) | ND(1.50) | ND(1.50) | ND(0.30) | ND(0.30) |
| Benzo(a)pyrene | ND(1.50) | ND(1.50) | ND(1.50) | ND(0.30) | ND(0.30) |
| Benzo(b)fluoranthene | ND(1.50) | ND(1.50) | ND(1.50) | ND(0.30) | ND(0.30) |
| Benzo(g,h,i)perylene | ND(1.50) | ND(1.50) | ND(1.50) | ND(0.30) | ND(0.30) |
| Benzo(k)fluoranthene | ND(1.50) | ND(1.50) | ND(1.50) | ND(0.30) | ND(0.30) |
| Benzoic Acid | ND(10.00) | ND(10.00) | ND(10.00) | ND(2.00) | ND(2.00) |
| Benzyl Alcohol | ND(1.50) | ND(1.50) | ND(1.50) | ND(0.30) | ND(0.30) |
| Bis(2-chloroethoxy)methane | ND(1.50) | ND(1.50) | ND(1.50) | ND(0.30) | ND(0.30) |
| Bis(2-chloroethyl) Ether | ND(1.50) | ND(1.50) | ND(1.50) | ND(0.30) | ND(0.30) |

# 1993 OU1, PSE2 Soil Data

| Sample Number | 93FW0554SL | 93FW0555SL | 93FW0701SL | 93FW0702SL | 93FW0704SL |
|---|---|---|---|---|---|
| Lab Code | K4313-9 | K4313-10 | K3946-1 | K3946-2 | K3946-3 |
| Date | 7/22/93 | 7/22/93 | 7/6/93 | 7/6/93 | 7/6/93 |
| Location | 1599-29SS | 1599-30SS | AP-5977 | AP-5977 | AP-5977 |
| Depth | 0 - 1 | 0 - 1 | 0 - 1.5 | 5 - 6.5 | 5 - 6.5 |
| Type | PR | PR | PR | PR | QC |
| Analyte | | | | | |
| Bis(2-chloroisopropyl) Ether | ND(1.50) | ND(1.50) | ND(1.50) | ND(0.30) | ND(0.30) |
| Bis(2-ethylhexyl) Phthalate | ND(1.50) | ND(1.50) | ND(1.50) | ND(0.30) | ND(0.30) |
| Butylbenzyl Phthalate | ND(1.50) | ND(1.50) | ND(1.50) | ND(0.30) | ND(0.30) |
| Chrysene | ND(1.50) | ND(1.50) | ND(1.50) | ND(0.30) | ND(0.30) |
| Di-n-butyl Phthalate | ND(1.50) | ND(1.50) | ND(1.50) | ND(0.30) | ND(0.30) |
| Di-n-octyl Phthalate | ND(1.50) | ND(1.50) | ND(1.50) | ND(0.30) | ND(0.30) |
| Dibenz(a,h)anthracene | ND(1.50) | ND(1.50) | ND(1.50) | ND(0.30) | ND(0.30) |
| Dibenzofuran | ND(1.50) | ND(1.50) | ND(1.50) | ND(0.30) | ND(0.30) |
| Diethyl Phthalate | ND(1.50) | ND(1.50) | ND(1.50) | ND(0.30) | ND(0.30) |
| Dimethyl Phthalate | ND(1.50) | ND(1.50) | ND(1.50) | ND(0.30) | ND(0.30) |
| Fluoranthene | ND(1.50) | ND(1.50) | ND(1.50) | ND(0.30) | ND(0.30) |
| Fluorene | ND(1.50) | ND(1.50) | ND(1.50) | ND(0.30) | ND(0.30) |
| Hexachlorobenzene | ND(1.50) | ND(1.50) | ND(1.50) | ND(0.30) | ND(0.30) |
| Hexachlorobutadiene | ND(1.50) | ND(1.50) | ND(1.50) | ND(0.30) | ND(0.30) |
| Hexachlorocyclopentadiene | ND(1.50) | ND(1.50) | ND(1.50) | ND(0.30) | ND(0.30) |
| Hexachloroethane | ND(1.50) | ND(1.50) | ND(1.50) | ND(0.30) | ND(0.30) |
| Indeno(1,2,3-c,d)pyrene | ND(1.50) | ND(1.50) | ND(1.50) | ND(0.30) | ND(0.30) |
| Isophorone | ND(1.50) | ND(1.50) | ND(1.50) | ND(0.30) | ND(0.30) |
| N-Nitrosodi-n-propylamine | ND(1.50) | ND(1.50) | ND(1.50) | ND(0.30) | ND(0.30) |
| N-Nitrosodimethylamine | ND(10.00) | ND(10.00) | ND(10.00) | ND(2.00) | ND(2.00) |
| N-Nitrosodiphenylamine | ND(1.50) | ND(1.50) | ND(1.50) | ND(0.30) | ND(0.30) |
| Naphthalene | ND(1.50) | ND(1.50) | ND(1.50) | ND(0.30) | ND(0.30) |
| Nitrobenzene | ND(1.50) | ND(1.50) | ND(1.50) | ND(0.30) | ND(0.30) |
| Pentachlorophenol | ND(10.00) | ND(10.00) | ND(10.00) | ND(2.00) | ND(2.00) |
| Phenanthrene | ND(1.50) | ND(1.50) | ND(1.50) | ND(0.30) | ND(0.30) |
| Phenol | ND(1.50) | ND(1.50) | ND(1.50) | ND(0.30) | ND(0.30) |
| Pyrene | ND(1.50) | ND(1.50) | ND(1.50) | ND(0.30) | ND(0.30) |
| EPA Methods 3550M /8150M | | | | | |
| 2,4,5-T | NA | NA | NA | NA | NA |
| 2,4,5-TP (Silvex) | NA | NA | NA | NA | NA |
| 2,4-D | NA | NA | NA | NA | NA |
| 2,4-DB | NA | NA | NA | NA | NA |
| Dalapon | NA | NA | NA | NA | NA |
| Dicamba | NA | NA | NA | NA | NA |
| Dichloroprop | NA | NA | NA | NA | NA |
| Dinoseb | NA | NA | NA | NA | NA |
| MCPA | NA | NA | NA | NA | NA |
| MCPP | NA | NA | NA | NA | NA |
| EPA Methods 3540/8080 | | | | | |
| 4,4'-DDD | 0.55 | a<0.4 | | | |
| 4,4'-DDE | 0.11 | 0.24 | | | |
| 4,4'-DDT | 0.56 | 1.70 | | | |
| Aldrin | ND(0.01) | ND(0.01) | NA | NA | NA |
| Alpha-BHC | ND(0.01) | ND(0.01) | NA | NA | NA |
| Aroclor 1016 | ND(0.10) | ND(0.10) | NA | NA | NA |
| Aroclor 1221 | ND(0.10) | ND(0.10) | NA | NA | NA |
| Aroclor 1232 | ND(0.10) | ND(0.10) | NA | NA | NA |
| Aroclor 1242 | ND(0.10) | ND(0.10) | NA | NA | NA |
| Aroclor 1248 | ND(0.10) | ND(0.10) | NA | NA | NA |
| Aroclor 1254 | ND(0.10) | ND(0.10) | NA | NA | NA |
| Aroclor 1260 | ND(0.10) | ND(0.10) | NA | NA | NA |
| Beta-BHC | ND(0.03) | ND(0.03) | | | |
| Chlordane | ND(0.10) | a<1 | NA | NA | NA |
| Delta-BHC | ND(0.01) | ND(0.01) | NA | NA | NA |
| Dieldrin | ND(0.01) | 0.25 | NA | NA | NA |
| Endosulfan I | ND(0.01) | ND(0.01) | NA | NA | NA |
| Endosulfan II | ND(0.01) | a<0.1 | NA | NA | NA |
| Endosulfan Sulfate | ND(0.01) | a<0.1 | NA | NA | NA |
| Endrin | ND(0.01) | a<0.1 | NA | NA | NA |
| Endrin Aldehyde | ND(0.01) | a<0.1 | NA | NA | NA |
| Gamma-BHC (Lindane) | ND(0.01) | ND(0.01) | | | |

# 1993 OU1, PSE2 Soil Data

| Sample Number | 93FW0554SL | 93FW0555SL | 93FW0701SL | 93FW0702SL | 93FW0704SL |
|---|---|---|---|---|---|
| Lab Code | K4313-9 | K4313-10 | K3946-1 | K3946-2 | K3946-3 |
| Date | 7/22/93 | 7/22/93 | 7/6/93 | 7/6/93 | 7/6/93 |
| Location | 1599-29SS | 1599-30SS | AP-5977 | AP-5977 | AP-5977 |
| Depth | 0 - 1 | 0 - 1 | 0 - 1.5 | 5 - 6.5 | 5 - 6.5 |
| Type | PR | PR | PR | PR | QC |
| Analyte | | | | | |
| Heptachlor | ND(0.01) | ND(0.01) | | | |
| Heptachlor Epoxide | ND(0.01) | ND(0.01) | | | |
| Methoxychlor | ND(0.02) | ND(0.02) | NA | NA | NA |
| Toxaphene | ND(0.30) | a<3 | NA | NA | NA |
| EPA Methods 3540/8140 | | | | | |
| Azinphos Methyl | NA | NA | NA | NA | NA |
| Bolstar | NA | NA | NA | NA | NA |
| Chlorpyrifos | NA | NA | NA | NA | NA |
| Coumaphos | NA | NA | NA | NA | NA |
| Demeton-O,S | NA | NA | NA | NA | NA |
| Diazinon | NA | NA | NA | NA | NA |
| Dichlorvos | NA | NA | NA | NA | NA |
| Disulfoton | NA | NA | NA | NA | NA |
| Ethoprop | NA | NA | NA | NA | NA |
| Fensulfothion | NA | NA | NA | NA | NA |
| Fenthion | NA | NA | NA | NA | NA |
| Malathion | NA | NA | NA | NA | NA |
| Parathion Methyl | NA | NA | NA | NA | NA |
| Merphos | NA | NA | NA | NA | NA |
| Mevinphos | NA | NA | NA | NA | NA |
| Naled | NA | NA | NA | NA | NA |
| Phorate | NA | NA | NA | NA | NA |
| Ronnel | NA | NA | NA | NA | NA |
| Stirophos | NA | NA | NA | NA | NA |
| Tokuthion (Prothiofos) | NA | NA | NA | NA | NA |
| Trichloronate | NA | NA | NA | NA | NA |
| Metals | | | | | |
| Arsenic (7060) | NA | NA | 5.00 | 11.00 | 10.00 |
| Barium (6010) | NA | NA | 118.00 | 125.00 | 114.00 |
| Cadmium (6010) | NA | NA | ND(1.00) | ND(1.00) | ND(1.00) |
| Chromium (6010) | NA | NA | 16.00 | 25.00 | 23.00 |
| Lead (7421) | NA | NA | 80.00 | 9.00 | 11.00 |
| Mercury (7471) | NA | NA | ND(0.20) | ND(0.20) | ND(0.20) |
| Selenium (7740) | NA | NA | ND(1.00) | ND(1.00) | ND(1.00) |
| Silver (6010) | NA | NA | ND(2.00) | ND(2.00) | ND(2.00) |
| EPA Method 8290 | | | | | |
| OCDD | NA | NA | NA | NA | NA |
| OCDF | NA | NA | NA | NA | NA |
| Total HpCDD | NA | NA | NA | NA | NA |
| Total HpCDF | NA | NA | NA | NA | NA |
| Total HxCDD | NA | NA | NA | NA | NA |
| Total HxCDF | NA | NA | NA | NA | NA |
| Total PeCDD | NA | NA | NA | NA | NA |
| Total PeCDF | NA | NA | NA | NA | NA |
| Total TCDD | NA | NA | NA | NA | NA |
| Total TCDF | NA | NA | NA | NA | NA |

# 1993 OU1, PSE2 Soil Data

| Sample Number | 93FW0705SL | 93FW0706SL | 93FW0708SL | 93FW0709SL | 93FW0710SL |
|---|---|---|---|---|---|
| Lab Code | K3946-4 | K3946-5 | K3946-6 | K3946-7 | K3946-8 |
| Date | 7/6/93 | 7/6/93 | 7/6/93 | 7/6/93 | 7/6/93 |
| Location | AP-5977 | AP-5977 | AP-5978 | AP-5978 | AP-5978 |
| Depth | 10 - 11.5 | 15 - 16.5 | 0 - 1.5 | 5 - 6.5 | 10 - 11.5 |
| Type | PR | PR | PR | PR | PR |
| Analyte | | | | | |
| EPA Methods 3540/8100 DRO | | | | | |
| DRO | 12.00 | ND(10.00) | 1410.00 | 91.00 | ND(10.00) |
| EPA Methods 5030/8015 GRO | | | | | |
| GRO | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| EPA Method 8290 | | | | | |
| 1,2,3,4,6,7,8-HpCDD | NA | NA | NA | NA | NA |
| 1,2,3,4,6,7,8-HpCDF | NA | NA | NA | NA | NA |
| 1,2,3,4,7,8,9-HpCDF | NA | NA | NA | NA | NA |
| 1,2,3,4,7,8-HxCDD | NA | NA | NA | NA | NA |
| 1,2,3,4,7,8-HxCDF | NA | NA | NA | NA | NA |
| 1,2,3,6,7,8-HxCDD | NA | NA | NA | NA | NA |
| 1,2,3,6,7,8-HxCDF | NA | NA | NA | NA | NA |
| 1,2,3,7,8,9-HxCDD | NA | NA | NA | NA | NA |
| 1,2,3,7,8,9-HxCDF | NA | NA | NA | NA | NA |
| 1,2,3,7,8-PeCDD | NA | NA | NA | NA | NA |
| 1,2,3,7,8-PeCDF | NA | NA | NA | NA | NA |
| 2,3,4,6,7,8-HxCDF | NA | NA | NA | NA | NA |
| 2,3,4,7,8-PeCDF | NA | NA | NA | NA | NA |
| 2,3,7,8-TCDD | NA | NA | NA | NA | NA |
| 2,3,7,8-TCDF | NA | NA | NA | NA | NA |
| EPA Methods 3550/8270 | | | | | |
| 1,2,4-Trichlorobenzene | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) | ND(0.30) |
| 1,2-Dichlorobenzene | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) | ND(0.30) |
| 1,3-Dichlorobenzene | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) | ND(0.30) |
| 1,4-Dichlorobenzene | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) | ND(0.30) |
| 2,4,5-Trichlorophenol | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) | ND(0.30) |
| 2,4,6-Trichlorophenol | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) | ND(0.30) |
| 2,4-Dichlorophenol | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) | ND(0.30) |
| 2,4-Dimethylphenol | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) | ND(0.30) |
| 2,4-Dinitrophenol | ND(2.00) | ND(2.00) | ND(10.00) | ND(2.00) | ND(2.00) |
| 2,4-Dinitrotoluene | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) | ND(0.30) |
| 2,6-Dinitrotoluene | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) | ND(0.30) |
| 2-Chloronaphthalene | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) | ND(0.30) |
| 2-Chlorophenol | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) | ND(0.30) |
| 2-Methyl-4,6-dinitrophenol | ND(2.00) | ND(2.00) | ND(10.00) | ND(2.00) | ND(2.00) |
| 2-Methylnaphthalene | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) | ND(0.30) |
| 2-Methylphenol | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) | ND(0.30) |
| 2-Nitroaniline | ND(2.00) | ND(2.00) | ND(10.00) | ND(2.00) | ND(2.00) |
| 2-Nitrophenol | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) | ND(0.30) |
| 3,3'-Dichlorobenzidine | ND(2.00) | ND(2.00) | ND(10.00) | ND(2.00) | ND(2.00) |
| 3- and 4-Methylphenol_ | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) | ND(0.30) |
| 3-Nitroaniline | ND(2.00) | ND(2.00) | ND(10.00) | ND(2.00) | ND(2.00) |
| 4-Bromophenyl Phenyl Ether | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) | ND(0.30) |
| 4-Chloro-3-methylphenol | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) | ND(0.30) |
| 4-Chloroaniline | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) | ND(0.30) |
| 4-Chlorophenyl Phenyl Ether | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) | ND(0.30) |
| 4-Nitroaniline | ND(2.00) | ND(2.00) | ND(10.00) | ND(2.00) | ND(2.00) |
| 4-Nitrophenol | ND(2.00) | ND(2.00) | ND(10.00) | ND(2.00) | ND(2.00) |
| Acenaphthene | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) | ND(0.30) |
| Acenaphthylene | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) | ND(0.30) |
| Aniline | ND(1.00) | ND(1.00) | ND(5.00) | ND(1.00) | ND(1.00) |
| Anthracene | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) | ND(0.30) |
| Benz(a)anthracene | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) | ND(0.30) |
| Benzo(a)pyrene | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) | ND(0.30) |
| Benzo(b)fluoranthene | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) | ND(0.30) |
| Benzo(g,h,i)perylene | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) | ND(0.30) |
| Benzo(k)fluoranthene | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) | ND(0.30) |
| Benzoic Acid | ND(2.00) | ND(2.00) | ND(10.00) | ND(2.00) | ND(2.00) |
| Benzyl Alcohol | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) | ND(0.30) |
| Bis(2-chloroethoxy)methane | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) | ND(0.30) |
| Bis(2-chloroethyl) Ether | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) | ND(0.30) |

# 1993 OU1, PSE2 Soil Data

| Sample Number | 93FW0705SL | 93FW0706SL | 93FW0708SL | 93FW0709SL | 93FW0710SL |
|---|---|---|---|---|---|
| Lab Code | K3946-4 | K3946-5 | K3946-6 | K3946-7 | K3946-8 |
| Date | 7/6/93 | 7/6/93 | 7/6/93 | 7/6/93 | 7/6/93 |
| Location | AP-5977 | AP-5977 | AP-5978 | AP-5978 | AP-5978 |
| Depth | 10 - 11.5 | 15 - 16.5 | 0 - 1.5 | 5 - 6.5 | 10 - 11.5 |
| Type | PR | PR | PR | PR | PR |
| Analyte | | | | | |
| Bis(2-chloroisopropyl) Ether | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) | ND(0.30) |
| Bis(2-ethylhexyl) Phthalate | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) | ND(0.30) |
| Butylbenzyl Phthalate | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) | ND(0.30) |
| Chrysene | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) | ND(0.30) |
| Di-n-butyl Phthalate | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) | ND(0.30) |
| Di-n-octyl Phthalate | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) | ND(0.30) |
| Dibenz(a,h)anthracene | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) | ND(0.30) |
| Dibenzofuran | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) | ND(0.30) |
| Diethyl Phthalate | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) | ND(0.30) |
| Dimethyl Phthalate | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) | ND(0.30) |
| Fluoranthene | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) | ND(0.30) |
| Fluorene | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) | ND(0.30) |
| Hexachlorobenzene | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) | ND(0.30) |
| Hexachlorobutadiene | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) | ND(0.30) |
| Hexachlorocyclopentadiene | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) | ND(0.30) |
| Hexachloroethane | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) | ND(0.30) |
| Indeno(1,2,3-c,d)pyrene | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) | ND(0.30) |
| Isophorone | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) | ND(0.30) |
| N-Nitrosodi-n-propylamine | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) | ND(0.30) |
| N-Nitrosodimethylamine | ND(2.00) | ND(2.00) | ND(10.00) | ND(2.00) | ND(2.00) |
| N-Nitrosodiphenylamine | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) | ND(0.30) |
| Naphthalene | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) | ND(0.30) |
| Nitrobenzene | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) | ND(0.30) |
| Pentachlorophenol | ND(2.00) | ND(2.00) | ND(10.00) | ND(2.00) | ND(2.00) |
| Phenanthrene | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) | ND(0.30) |
| Phenol | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) | ND(0.30) |
| Pyrene | ND(0.30) | ND(0.30) | ND(1.50) | ND(0.30) | ND(0.30) |
| EPA Methods 3550M /8150M | | | | | |
| 2,4,5-T | NA | NA | NA | NA | NA |
| 2,4,5-TP (Silvex) | NA | NA | NA | NA | NA |
| 2,4-D | NA | NA | NA | NA | NA |
| 2,4-DB | NA | NA | NA | NA | NA |
| Dalapon | NA | NA | NA | NA | NA |
| Dicamba | NA | NA | NA | NA | NA |
| Dichloroprop | NA | NA | NA | NA | NA |
| Dinoseb | NA | NA | NA | NA | NA |
| MCPA | NA | NA | NA | NA | NA |
| MCPP | NA | NA | NA | NA | NA |
| EPA Methods 3540/8080 | | | | | |
| 4,4'-DDD | | | | | |
| 4,4'-DDE | | | | | |
| 4,4'-DDT | | | | | |
| Aldrin | NA | NA | NA | NA | NA |
| Alpha-BHC | NA | NA | NA | NA | NA |
| Aroclor 1016 | NA | NA | NA | NA | NA |
| Aroclor 1221 | NA | NA | NA | NA | NA |
| Aroclor 1232 | NA | NA | NA | NA | NA |
| Aroclor 1242 | NA | NA | NA | NA | NA |
| Aroclor 1248 | NA | NA | NA | NA | NA |
| Aroclor 1254 | NA | NA | NA | NA | NA |
| Aroclor 1260 | NA | NA | NA | NA | NA |
| Beta-BHC | | | | | |
| Chlordane | NA | NA | NA | NA | NA |
| Delta-BHC | NA | NA | NA | NA | NA |
| Dieldrin | NA | NA | NA | NA | NA |
| Endosulfan I | NA | NA | NA | NA | NA |
| Endosulfan II | NA | NA | NA | NA | NA |
| Endosulfan Sulfate | NA | NA | NA | NA | NA |
| Endrin | NA | NA | NA | NA | NA |
| Endrin Aldehyde | NA | NA | NA | NA | NA |
| Gamma-BHC (Lindane) | | | | | |

# 1993 OU1, PSE2 Soil Data

| Sample Number | 93FW0705SL | 93FW0706SL | 93FW0708SL | 93FW0709SL | 93FW0710SL |
|---|---|---|---|---|---|
| Lab Code | K3946-4 | K3946-5 | K3946-6 | K3946-7 | K3946-8 |
| Date | 7/6/93 | 7/6/93 | 7/6/93 | 7/6/93 | 7/6/93 |
| Location | AP-5977 | AP-5977 | AP-5978 | AP-5978 | AP-5978 |
| Depth | 10 - 11.5 | 15 - 16.5 | 0 - 1.5 | 5 - 6.5 | 10 - 11.5 |
| Type | PR | PR | PR | PR | PR |
| Analyte | | | | | |
| Heptachlor | | | | | |
| Heptachlor Epoxide | | | | | |
| Methoxychlor | NA | NA | NA | NA | NA |
| Toxaphene | NA | NA | NA | NA | NA |
| EPA Methods 3540/8140 | | | | | |
| Azinphos Methyl | NA | NA | NA | NA | NA |
| Bolstar | NA | NA | NA | NA | NA |
| Chlorpyrifos | NA | NA | NA | NA | NA |
| Coumaphos | NA | NA | NA | NA | NA |
| Demeton-O,S | NA | NA | NA | NA | NA |
| Diazinon | NA | NA | NA | NA | NA |
| Dichlorvos | NA | NA | NA | NA | NA |
| Disulfoton | NA | NA | NA | NA | NA |
| Ethoprop | NA | NA | NA | NA | NA |
| Fensulfothion | NA | NA | NA | NA | NA |
| Fenthion | NA | NA | NA | NA | NA |
| Malathion | NA | NA | NA | NA | NA |
| Parathion Methyl | NA | NA | NA | NA | NA |
| Merphos | NA | NA | NA | NA | NA |
| Mevinphos | NA | NA | NA | NA | NA |
| Naled | NA | NA | NA | NA | NA |
| Phorate | NA | NA | NA | NA | NA |
| Ronnel | NA | NA | NA | NA | NA |
| Stirophos | NA | NA | NA | NA | NA |
| Tokuthion (Prothiofos) | NA | NA | NA | NA | NA |
| Trichloronate | NA | NA | NA | NA | NA |
| Metals | | | | | |
| Arsenic (7060) | 3.00 | 2.00 | 7.00 | 6.00 | 4.00 |
| Barium (6010) | 38.00 | 45.00 | 98.00 | 95.00 | 56.00 |
| Cadmium (6010) | ND(1.00) | ND(1.00) | ND(1.00) | ND(1.00) | ND(1.00) |
| Chromium (6010) | 9.00 | 6.00 | 14.00 | 16.00 | 9.00 |
| Lead (7421) | 4.00 | 3.00 | 85.00 | 35.00 | 4.00 |
| Mercury (7471) | ND(0.20) | ND(0.20) | ND(0.20) | ND(0.20) | ND(0.20) |
| Selenium (7740) | ND(1.00) | ND(1.00) | ND(1.00) | ND(1.00) | ND(1.00) |
| Silver (6010) | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) |
| EPA Method 8290 | | | | | |
| OCDD | NA | NA | NA | NA | NA |
| OCDF | NA | NA | NA | NA | NA |
| Total HpCDD | NA | NA | NA | NA | NA |
| Total HpCDF | NA | NA | NA | NA | NA |
| Total HxCDD | NA | NA | NA | NA | NA |
| Total HxCDF | NA | NA | NA | NA | NA |
| Total PeCDD | NA | NA | NA | NA | NA |
| Total PeCDF | NA | NA | NA | NA | NA |
| Total TCDD | NA | NA | NA | NA | NA |
| Total TCDF | NA | NA | NA | NA | NA |

# 1993 OU1, PSE2 Soil Data

| Sample Number | 93FW0711SL | 93FW0712SL | 93FW0713SL | 93FW0714SL | 93FW0801SL |
|---|---|---|---|---|---|
| Lab Code | K3946-9 | K3946-10 | K3946-11 | K3946-12 | K3978-1 |
| Date | 7/6/93 | 7/6/93 | 7/6/93 | 7/6/93 | 7/7/93 |
| Location | AP-5978 | AP-5979 | AP-5979 | AP-5979 | AP-5980 |
| Depth | 15 - 16.5 | 5 - 6.5 | 10 - 11.5 | 15 - 16.5 | 0 - 1.5 |
| Type | PR | PR | PR | PR | PR |
| Analyte | | | | | |
| EPA Methods 3540/8100 DRO | | | | | |
| DRO | 17.00 | 63.00 | ND(10.00) | ND(10.00) | 950.00 |
| EPA Methods 5030/8015 GRO | | | | | |
| GRO | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| EPA Method 8290 | | | | | |
| 1,2,3,4,6,7,8-HpCDD | NA | NA | NA | NA | NA |
| 1,2,3,4,6,7,8-HpCDF | NA | NA | NA | NA | NA |
| 1,2,3,4,7,8,9-HpCDF | NA | NA | NA | NA | NA |
| 1,2,3,4,7,8-HxCDD | NA | NA | NA | NA | NA |
| 1,2,3,4,7,8-HxCDF | NA | NA | NA | NA | NA |
| 1,2,3,6,7,8-HxCDD | NA | NA | NA | NA | NA |
| 1,2,3,6,7,8-HxCDF | NA | NA | NA | NA | NA |
| 1,2,3,7,8,9-HxCDD | NA | NA | NA | NA | NA |
| 1,2,3,7,8,9-HxCDF | NA | NA | NA | NA | NA |
| 1,2,3,7,8-PeCDD | NA | NA | NA | NA | NA |
| 1,2,3,7,8-PeCDF | NA | NA | NA | NA | NA |
| 2,3,4,6,7,8-HxCDF | NA | NA | NA | NA | NA |
| 2,3,4,7,8-PeCDF | NA | NA | NA | NA | NA |
| 2,3,7,8-TCDD | NA | NA | NA | NA | NA |
| 2,3,7,8-TCDF | NA | NA | NA | NA | NA |
| EPA Methods 3550/8270 | | | | | |
| 1,2,4-Trichlorobenzene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(15.00) |
| 1,2-Dichlorobenzene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(15.00) |
| 1,3-Dichlorobenzene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(15.00) |
| 1,4-Dichlorobenzene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(15.00) |
| 2,4,5-Trichlorophenol | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(15.00) |
| 2,4,6-Trichlorophenol | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(15.00) |
| 2,4-Dichlorophenol | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(15.00) |
| 2,4-Dimethylphenol | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(15.00) |
| 2,4-Dinitrophenol | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) | ND |
| 2,4-Dinitrotoluene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(15.00) |
| 2,6-Dinitrotoluene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(15.00) |
| 2-Chloronaphthalene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(15.00) |
| 2-Chlorophenol | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(15.00) |
| 2-Methyl-4,6-dinitrophenol | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) | ND |
| 2-Methylnaphthalene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(15.00) |
| 2-Methylphenol | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(15.00) |
| 2-Nitroaniline | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) | ND |
| 2-Nitrophenol | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(15.00) |
| 3,3'-Dichlorobenzidine | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) | ND |
| 3- and 4-Methylphenol_ | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(15.00) |
| 3-Nitroaniline | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) | ND |
| 4-Bromophenyl Phenyl Ether | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(15.00) |
| 4-Chloro-3-methylphenol | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(15.00) |
| 4-Chloroaniline | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(15.00) |
| 4-Chlorophenyl Phenyl Ether | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(15.00) |
| 4-Nitroaniline | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) | ND |
| 4-Nitrophenol | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) | ND |
| Acenaphthene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(15.00) |
| Acenaphthylene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(15.00) |
| Aniline | ND(1.00) | ND(1.00) | ND(1.00) | ND(1.00) | ND(50.00) |
| Anthracene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(15.00) |
| Benz(a)anthracene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(15.00) |
| Benzo(a)pyrene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(15.00) |
| Benzo(b)fluoranthene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(15.00) |
| Benzo(g,h,i)perylene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(15.00) |
| Benzo(k)fluoranthene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(15.00) |
| Benzoic Acid | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) | ND |
| Benzyl Alcohol | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(15.00) |
| Bis(2-chloroethoxy)methane | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(15.00) |
| Bis(2-chloroethyl) Ether | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(15.00) |

# 1993 OU1, PSE2 Soil Data

| Sample Number | 93FW0711SL | 93FW0712SL | 93FW0713SL | 93FW0714SL | 93FW0801SL |
|---|---|---|---|---|---|
| Lab Code | K3946-9 | K3946-10 | K3946-11 | K3946-12 | K3978-1 |
| Date | 7/6/93 | 7/6/93 | 7/6/93 | 7/6/93 | 7/7/93 |
| Location | AP-5978 | AP-5979 | AP-5979 | AP-5979 | AP-5980 |
| Depth | 15 - 16.5 | 5 - 6.5 | 10 - 11.5 | 15 - 16.5 | 0 - 1.5 |
| Type | PR | PR | PR | PR | PR |
| Analyte | | | | | |
| Bis(2-chloroisopropyl) Ether | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(15.00) |
| Bis(2-ethylhexyl) Phthalate | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(15.00) |
| Butylbenzyl Phthalate | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(15.00) |
| Chrysene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(15.00) |
| Di-n-butyl Phthalate | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(15.00) |
| Di-n-octyl Phthalate | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(15.00) |
| Dibenz(a,h)anthracene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(15.00) |
| Dibenzofuran | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(15.00) |
| Diethyl Phthalate | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(15.00) |
| Dimethyl Phthalate | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(15.00) |
| Fluoranthene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(15.00) |
| Fluorene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(15.00) |
| Hexachlorobenzene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(15.00) |
| Hexachlorobutadiene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(15.00) |
| Hexachlorocyclopentadiene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(15.00) |
| Hexachloroethane | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(15.00) |
| Indeno(1,2,3-c,d)pyrene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(15.00) |
| Isophorone | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(15.00) |
| N-Nitrosodi-n-propylamine | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(15.00) |
| N-Nitrosodimethylamine | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) | ND |
| N-Nitrosodiphenylamine | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(15.00) |
| Naphthalene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(15.00) |
| Nitrobenzene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(15.00) |
| Pentachlorophenol | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) | ND |
| Phenanthrene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(15.00) |
| Phenol | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(15.00) |
| Pyrene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(15.00) |
| EPA Methods 3550M /8150M | | | | | |
| 2,4,5-T | NA | NA | NA | NA | NA |
| 2,4,5-TP (Silvex) | NA | NA | NA | NA | NA |
| 2,4-D | NA | NA | NA | NA | NA |
| 2,4-DB | NA | NA | NA | NA | NA |
| Dalapon | NA | NA | NA | NA | NA |
| Dicamba | NA | NA | NA | NA | NA |
| Dichloroprop | NA | NA | NA | NA | NA |
| Dinoseb | NA | NA | NA | NA | NA |
| MCPA | NA | NA | NA | NA | NA |
| MCPP | NA | NA | NA | NA | NA |
| EPA Methods 3540/8080 | | | | | |
| 4,4'-DDD | | | | | |
| 4,4'-DDE | | | | | |
| 4,4'-DDT | | | | | |
| Aldrin | NA | NA | NA | NA | NA |
| Alpha-BHC | NA | NA | NA | NA | NA |
| Aroclor 1016 | NA | NA | NA | NA | ND(1.00) |
| Aroclor 1221 | NA | NA | NA | NA | ND(1.00) |
| Aroclor 1232 | NA | NA | NA | NA | ND(1.00) |
| Aroclor 1242 | NA | NA | NA | NA | ND(1.00) |
| Aroclor 1248 | NA | NA | NA | NA | ND(1.00) |
| Aroclor 1254 | NA | NA | NA | NA | ND(1.00) |
| Aroclor 1260 | NA | NA | NA | NA | ND(1.00) |
| Beta-BHC | | | | | |
| Chlordane | NA | NA | NA | NA | NA |
| Delta-BHC | NA | NA | NA | NA | NA |
| Dieldrin | NA | NA | NA | NA | NA |
| Endosulfan I | NA | NA | NA | NA | NA |
| Endosulfan II | NA | NA | NA | NA | NA |
| Endosulfan Sulfate | NA | NA | NA | NA | NA |
| Endrin | NA | NA | NA | NA | NA |
| Endrin Aldehyde | NA | NA | NA | NA | NA |
| Gamma-BHC (Lindane) | | | | | |

# 1993 OU1, PSE2 Soil Data

| Sample Number | 93FW0711SL | 93FW0712SL | 93FW0713SL | 93FW0714SL | 93FW0801SL |
|---|---|---|---|---|---|
| Lab Code | K3946-9 | K3946-10 | K3946-11 | K3946-12 | K3978-1 |
| Date | 7/6/93 | 7/6/93 | 7/6/93 | 7/6/93 | 7/7/93 |
| Location | AP-5978 | AP-5979 | AP-5979 | AP-5979 | AP-5980 |
| Depth | 15 - 16.5 | 5 - 6.5 | 10 - 11.5 | 15 - 16.5 | 0 - 1.5 |
| Type | PR | PR | PR | PR | PR |
| Analyte | | | | | |
| Heptachlor | | | | | |
| Heptachlor Epoxide | | | | | |
| Methoxychlor | NA | NA | NA | NA | NA |
| Toxaphene | NA | NA | NA | NA | NA |
| EPA Methods 3540/8140 | | | | | |
| Azinphos Methyl | NA | NA | NA | NA | NA |
| Bolstar | NA | NA | NA | NA | NA |
| Chlorpyrifos | NA | NA | NA | NA | NA |
| Coumaphos | NA | NA | NA | NA | NA |
| Demeton-O,S | NA | NA | NA | NA | NA |
| Diazinon | NA | NA | NA | NA | NA |
| Dichlorvos | NA | NA | NA | NA | NA |
| Disulfoton | NA | NA | NA | NA | NA |
| Ethoprop | NA | NA | NA | NA | NA |
| Fensulfothion | NA | NA | NA | NA | NA |
| Fenthion | NA | NA | NA | NA | NA |
| Malathion | NA | NA | NA | NA | NA |
| Parathion Methyl | NA | NA | NA | NA | NA |
| Merphos | NA | NA | NA | NA | NA |
| Mevinphos | NA | NA | NA | NA | NA |
| Naled | NA | NA | NA | NA | NA |
| Phorate | NA | NA | NA | NA | NA |
| Ronnel | NA | NA | NA | NA | NA |
| Stirophos | NA | NA | NA | NA | NA |
| Tokuthion (Prothiofos) | NA | NA | NA | NA | NA |
| Trichloronate | NA | NA | NA | NA | NA |
| Metals | | | | | |
| Arsenic (7060) | 3.00 | 11.00 | 4.00 | 2.00 | 5.00 |
| Barium (6010) | 41.00 | 134.00 | 58.00 | 51.00 | 95.00 |
| Cadmium (6010) | ND(1.00) | ND(1.00) | ND(1.00) | ND(1.00) | ND(1.00) |
| Chromium (6010) | 8.00 | 24.00 | 9.00 | 10.00 | 16.00 |
| Lead (7421) | 3.00 | 10.00 | 3.00 | 3.00 | 24.00 |
| Mercury (7471) | ND(0.20) | ND(0.20) | ND(0.20) | ND(0.20) | ND(0.20) |
| Selenium (7740) | ND(1.00) | ND(1.00) | ND(1.00) | ND(1.00) | ND(1.00) |
| Silver (6010) | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) |
| EPA Method 8290 | | | | | |
| OCDD | NA | NA | NA | NA | NA |
| OCDF | NA | NA | NA | NA | NA |
| Total HpCDD | NA | NA | NA | NA | NA |
| Total HpCDF | NA | NA | NA | NA | NA |
| Total HxCDD | NA | NA | NA | NA | NA |
| Total HxCDF | NA | NA | NA | NA | NA |
| Total PeCDD | NA | NA | NA | NA | NA |
| Total PeCDF | NA | NA | NA | NA | NA |
| Total TCDD | NA | NA | NA | NA | NA |
| Total TCDF | NA | NA | NA | NA | NA |

# 1993 OU1, PSE2 Soil Data

| Sample Number | 93FW0802SL | 93FW0804SL | 93FW0805SL | 93FW0806SL | 93FW0807SL |
|---|---|---|---|---|---|
| Lab Code | K3978-2 | K3978-3 | K3978-4 | K3978-5 | K3978-6 |
| Date | 7/7/93 | 7/7/93 | 7/7/93 | 7/7/93 | 7/7/93 |
| Location | AP-5980 | AP-5980 | AP-5980 | AP-5980 | AP-5981 |
| Depth | 5 - 6.5 | 5 - 6.5 | 10 - 11.5 | 15 - 16.5 | 0 - 1.5 |
| Type | PR | QC | PR | PR | PR |
| Analyte | | | | | |
| EPA Methods 3540/8100 DRO | | | | | |
| DRO | 47.00 | 43.00 | ND(10.00) | ND(10.00) | 163.00 |
| EPA Methods 5030/8015 GRO | | | | | |
| GRO | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| EPA Method 8290 | | | | | |
| 1,2,3,4,6,7,8-HpCDD | NA | NA | NA | NA | NA |
| 1,2,3,4,6,7,8-HpCDF | NA | NA | NA | NA | NA |
| 1,2,3,4,7,8,9-HpCDF | NA | NA | NA | NA | NA |
| 1,2,3,4,7,8-HxCDD | NA | NA | NA | NA | NA |
| 1,2,3,4,7,8-HxCDF | NA | NA | NA | NA | NA |
| 1,2,3,6,7,8-HxCDD | NA | NA | NA | NA | NA |
| 1,2,3,6,7,8-HxCDF | NA | NA | NA | NA | NA |
| 1,2,3,7,8,9-HxCDD | NA | NA | NA | NA | NA |
| 1,2,3,7,8,9-HxCDF | NA | NA | NA | NA | NA |
| 1,2,3,7,8-PeCDD | NA | NA | NA | NA | NA |
| 1,2,3,7,8-PeCDF | NA | NA | NA | NA | NA |
| 2,3,4,6,7,8-HxCDF | NA | NA | NA | NA | NA |
| 2,3,4,7,8-PeCDF | NA | NA | NA | NA | NA |
| 2,3,7,8-TCDD | NA | NA | NA | NA | NA |
| 2,3,7,8-TCDF | NA | NA | NA | NA | NA |
| EPA Methods 3550/8270 | | | | | |
| 1,2,4-Trichlorobenzene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) |
| 1,2-Dichlorobenzene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) |
| 1,3-Dichlorobenzene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) |
| 1,4-Dichlorobenzene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) |
| 2,4,5-Trichlorophenol | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) |
| 2,4,6-Trichlorophenol | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) |
| 2,4-Dichlorophenol | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) |
| 2,4-Dimethylphenol | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) |
| 2,4-Dinitrophenol | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) | ND(10.00) |
| 2,4-Dinitrotoluene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) |
| 2,6-Dinitrotoluene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) |
| 2-Chloronaphthalene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) |
| 2-Chlorophenol | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) |
| 2-Methyl-4,6-dinitrophenol | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) | ND(10.00) |
| 2-Methylnaphthalene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) |
| 2-Methylphenol | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) |
| 2-Nitroaniline | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) | ND(10.00) |
| 2-Nitrophenol | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) |
| 3,3'-Dichlorobenzidine | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) | ND(10.00) |
| 3- and 4-Methylphenol_ | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) |
| 3-Nitroaniline | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) | ND(10.00) |
| 4-Bromophenyl Phenyl Ether | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) |
| 4-Chloro-3-methylphenol | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) |
| 4-Chloroaniline | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) |
| 4-Chlorophenyl Phenyl Ether | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) |
| 4-Nitroaniline | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) | ND(10.00) |
| 4-Nitrophenol | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) | ND(10.00) |
| Acenaphthene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) |
| Acenaphthylene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) |
| Aniline | ND(1.00) | ND(1.00) | ND(1.00) | ND(1.00) | ND(5.00) |
| Anthracene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) |
| Benz(a)anthracene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) |
| Benzo(a)pyrene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) |
| Benzo(b)fluoranthene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) |
| Benzo(g,h,i)perylene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) |
| Benzo(k)fluoranthene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) |
| Benzoic Acid | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) | ND(10.00) |
| Benzyl Alcohol | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) |
| Bis(2-chloroethoxy)methane | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) |
| Bis(2-chloroethyl) Ether | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) |

# 1993 OU1, PSE2 Soil Data

| Sample Number | 93FW0802SL | 93FW0804SL | 93FW0805SL | 93FW0806SL | 93FW0807SL |
|---|---|---|---|---|---|
| Lab Code | K3978-2 | K3978-3 | K3978-4 | K3978-5 | K3978-6 |
| Date | 7/7/93 | 7/7/93 | 7/7/93 | 7/7/93 | 7/7/93 |
| Location | AP-5980 | AP-5980 | AP-5980 | AP-5980 | AP-5981 |
| Depth | 5 - 6.5 | 5 - 6.5 | 10 - 11.5 | 15 - 16.5 | 0 - 1.5 |
| Type | PR | QC | PR | PR | PR |
| Analyte | | | | | |
| Bis(2-chloroisopropyl) Ether | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) |
| Bis(2-ethylhexyl) Phthalate | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) |
| Butylbenzyl Phthalate | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) |
| Chrysene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) |
| Di-n-butyl Phthalate | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) |
| Di-n-octyl Phthalate | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) |
| Dibenz(a,h)anthracene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) |
| Dibenzofuran | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) |
| Diethyl Phthalate | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) |
| Dimethyl Phthalate | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) |
| Fluoranthene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) |
| Fluorene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) |
| Hexachlorobenzene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) |
| Hexachlorobutadiene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) |
| Hexachlorocyclopentadiene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) |
| Hexachloroethane | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) |
| Indeno(1,2,3-c,d)pyrene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) |
| Isophorone | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) |
| N-Nitrosodi-n-propylamine | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) |
| N-Nitrosodimethylamine | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) | ND(10.00) |
| N-Nitrosodiphenylamine | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) |
| Naphthalene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) |
| Nitrobenzene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) |
| Pentachlorophenol | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) | ND(10.00) |
| Phenanthrene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) |
| Phenol | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) |
| Pyrene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(1.50) |
| EPA Methods 3550M /8150M | | | | | |
| 2,4,5-T | NA | NA | NA | NA | NA |
| 2,4,5-TP (Silvex) | NA | NA | NA | NA | NA |
| 2,4-D | NA | NA | NA | NA | NA |
| 2,4-DB | NA | NA | NA | NA | NA |
| Dalapon | NA | NA | NA | NA | NA |
| Dicamba | NA | NA | NA | NA | NA |
| Dichloroprop | NA | NA | NA | NA | NA |
| Dinoseb | NA | NA | NA | NA | NA |
| MCPA | NA | NA | NA | NA | NA |
| MCPP | NA | NA | NA | NA | NA |
| EPA Methods 3540/8080 | | | | | |
| 4,4'-DDD | | | | | |
| 4,4'-DDE | | | | | |
| 4,4'-DDT | | | | | |
| Aldrin | NA | NA | NA | NA | NA |
| Alpha-BHC | NA | NA | NA | NA | NA |
| Aroclor 1016 | ND(1.00) | ND(1.00) | ND(1.00) | ND(1.00) | ND(1.00) |
| Aroclor 1221 | ND(1.00) | ND(1.00) | ND(1.00) | ND(1.00) | ND(1.00) |
| Aroclor 1232 | ND(1.00) | ND(1.00) | ND(1.00) | ND(1.00) | ND(1.00) |
| Aroclor 1242 | ND(1.00) | ND(1.00) | ND(1.00) | ND(1.00) | ND(1.00) |
| Aroclor 1248 | ND(1.00) | ND(1.00) | ND(1.00) | ND(1.00) | ND(1.00) |
| Aroclor 1254 | ND(1.00) | ND(1.00) | ND(1.00) | ND(1.00) | ND(1.00) |
| Aroclor 1260 | ND(1.00) | ND(1.00) | ND(1.00) | ND(1.00) | ND(1.00) |
| Beta-BHC | | | | | |
| Chlordane | NA | NA | NA | NA | NA |
| Delta-BHC | NA | NA | NA | NA | NA |
| Dieldrin | NA | NA | NA | NA | NA |
| Endosulfan I | NA | NA | NA | NA | NA |
| Endosulfan II | NA | NA | NA | NA | NA |
| Endosulfan Sulfate | NA | NA | NA | NA | NA |
| Endrin | NA | NA | NA | NA | NA |
| Endrin Aldehyde | NA | NA | NA | NA | NA |
| Gamma-BHC (Lindane) | | | | | |

# 1993 OU1, PSE2 Soil Data

| Sample Number | 93FW0802SL | 93FW0804SL | 93FW0805SL | 93FW0806SL | 93FW0807SL |
|---|---|---|---|---|---|
| Lab Code | K3978-2 | K3978-3 | K3978-4 | K3978-5 | K3978-6 |
| Date | 7/7/93 | 7/7/93 | 7/7/93 | 7/7/93 | 7/7/93 |
| Location | AP-5980 | AP-5980 | AP-5980 | AP-5980 | AP-5981 |
| Depth | 5 - 6.5 | 5 - 6.5 | 10 - 11.5 | 15 - 16.5 | 0 - 1.5 |
| Type | PR | QC | PR | PR | PR |
| Analyte | | | | | |
| Heptachlor | | | | | |
| Heptachlor Epoxide | | | | | |
| Methoxychlor | NA | NA | NA | NA | NA |
| Toxaphene | NA | NA | NA | NA | NA |
| EPA Methods 3540/8140 | | | | | |
| Azinphos Methyl | NA | NA | NA | NA | NA |
| Bolstar | NA | NA | NA | NA | NA |
| Chlorpyrifos | NA | NA | NA | NA | NA |
| Coumaphos | NA | NA | NA | NA | NA |
| Demeton-O,S | NA | NA | NA | NA | NA |
| Diazinon | NA | NA | NA | NA | NA |
| Dichlorvos | NA | NA | NA | NA | NA |
| Disulfoton | NA | NA | NA | NA | NA |
| Ethoprop | NA | NA | NA | NA | NA |
| Fensulfothion | NA | NA | NA | NA | NA |
| Fenthion | NA | NA | NA | NA | NA |
| Malathion | NA | NA | NA | NA | NA |
| Parathion Methyl | NA | NA | NA | NA | NA |
| Merphos | NA | NA | NA | NA | NA |
| Mevinphos | NA | NA | NA | NA | NA |
| Naled | NA | NA | NA | NA | NA |
| Phorate | NA | NA | NA | NA | NA |
| Ronnel | NA | NA | NA | NA | NA |
| Stirophos | NA | NA | NA | NA | NA |
| Tokuthion (Prothiofos) | NA | NA | NA | NA | NA |
| Trichloronate | NA | NA | NA | NA | NA |
| Metals | | | | | |
| Arsenic (7060) | 4.00 | 5.00 | 3.00 | 2.00 | 10.00 |
| Barium (6010) | 65.00 | 71.00 | 53.00 | 54.00 | 106.00 |
| Cadmium (6010) | ND(1.00) | ND(1.00) | ND(1.00) | ND(1.00) | ND(1.00) |
| Chromium (6010) | 13.00 | 13.00 | 10.00 | 9.00 | 14.00 |
| Lead (7421) | 5.00 | 6.00 | 3.00 | 2.00 | 20.00 |
| Mercury (7471) | ND(0.20) | ND(0.20) | ND(0.20) | ND(0.20) | ND(0.20) |
| Selenium (7740) | ND(1.00) | ND(1.00) | ND(1.00) | ND(1.00) | ND(1.00) |
| Silver (6010) | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) |
| EPA Method 8290 | | | | | |
| OCDD | NA | NA | NA | NA | NA |
| OCDF | NA | NA | NA | NA | NA |
| Total HpCDD | NA | NA | NA | NA | NA |
| Total HpCDF | NA | NA | NA | NA | NA |
| Total HxCDD | NA | NA | NA | NA | NA |
| Total HxCDF | NA | NA | NA | NA | NA |
| Total PeCDD | NA | NA | NA | NA | NA |
| Total PeCDF | NA | NA | NA | NA | NA |
| Total TCDD | NA | NA | NA | NA | NA |
| Total TCDF | NA | NA | NA | NA | NA |

# 1993 OU1, PSE2 Soil Data

| Sample Number | 93FW0808SL | 93FW0809SL | 93FW0810SL | 93FW0901SL | 93FW0902SL |
|---|---|---|---|---|---|
| Lab Code | K3978-7 | K3978-8 | K3978-9 | K4130-5 | K4130-6 |
| Date | 7/7/93 | 7/7/93 | 7/7/93 | 7/14/93 | 7/14/93 |
| Location | AP-5981 | AP-5981 | AP-5981 | AP-5982 | AP-5982 |
| Depth | 5 - 6.5 | 10 - 11.5 | 15 - 16.5 | 5 - 6.5 | 10 - 11.5 |
| Type | PR | PR | PR | PR | PR |
| Analyte | | | | | |
| EPA Methods 3540/8100 DRO | | | | | |
| DRO | ND(10.00) | ND(10.00) | ND(10.00) | NA | NA |
| EPA Methods 5030/8015 GRO | | | | | |
| GRO | ND(5.00) | ND(5.00) | ND(5.00) | | |
| EPA Method 8290 | | | | | |
| 1,2,3,4,6,7,8-HpCDD | NA | NA | NA | NA | NA |
| 1,2,3,4,6,7,8-HpCDF | NA | NA | NA | NA | NA |
| 1,2,3,4,7,8,9-HpCDF | NA | NA | NA | NA | NA |
| 1,2,3,4,7,8-HxCDD | NA | NA | NA | NA | NA |
| 1,2,3,4,7,8-HxCDF | NA | NA | NA | NA | NA |
| 1,2,3,6,7,8-HxCDD | NA | NA | NA | NA | NA |
| 1,2,3,6,7,8-HxCDF | NA | NA | NA | NA | NA |
| 1,2,3,7,8,9-HxCDD | NA | NA | NA | NA | NA |
| 1,2,3,7,8,9-HxCDF | NA | NA | NA | NA | NA |
| 1,2,3,7,8-PeCDD | NA | NA | NA | NA | NA |
| 1,2,3,7,8-PeCDF | NA | NA | NA | NA | NA |
| 2,3,4,6,7,8-HxCDF | NA | NA | NA | NA | NA |
| 2,3,4,7,8-PeCDF | NA | NA | NA | NA | NA |
| 2,3,7,8-TCDD | NA | NA | NA | NA | NA |
| 2,3,7,8-TCDF | NA | NA | NA | NA | NA |
| EPA Methods 3550/8270 | | | | | |
| 1,2,4-Trichlorobenzene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| 1,2-Dichlorobenzene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| 1,3-Dichlorobenzene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| 1,4-Dichlorobenzene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| 2,4,5-Trichlorophenol | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| 2,4,6-Trichlorophenol | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| 2,4-Dichlorophenol | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| 2,4-Dimethylphenol | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| 2,4-Dinitrophenol | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) |
| 2,4-Dinitrotoluene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| 2,6-Dinitrotoluene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| 2-Chloronaphthalene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| 2-Chlorophenol | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| 2-Methyl-4,6-dinitrophenol | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) |
| 2-Methylnaphthalene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| 2-Methylphenol | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| 2-Nitroaniline | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) |
| 2-Nitrophenol | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| 3,3'-Dichlorobenzidine | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) |
| 3- and 4-Methylphenol_ | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| 3-Nitroaniline | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) |
| 4-Bromophenyl Phenyl Ether | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| 4-Chloro-3-methylphenol | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| 4-Chloroaniline | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| 4-Chlorophenyl Phenyl Ether | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| 4-Nitroaniline | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) |
| 4-Nitrophenol | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) |
| Acenaphthene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Acenaphthylene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Aniline | ND(1.00) | ND(1.00) | ND(1.00) | ND(1.00) | ND(1.00) |
| Anthracene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Benz(a)anthracene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Benzo(a)pyrene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Benzo(b)fluoranthene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Benzo(g,h,i)perylene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Benzo(k)fluoranthene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Benzoic Acid | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) |
| Benzyl Alcohol | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Bis(2-chloroethoxy)methane | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Bis(2-chloroethyl) Ether | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |

# 1993 OU1, PSE2 Soil Data

| Sample Number | 93FW0808SL | 93FW0809SL | 93FW0810SL | 93FW0901SL | 93FW0902SL |
|---|---|---|---|---|---|
| Lab Code | K3978-7 | K3978-8 | K3978-9 | K4130-5 | K4130-6 |
| Date | 7/7/93 | 7/7/93 | 7/7/93 | 7/14/93 | 7/14/93 |
| Location | AP-5981 | AP-5981 | AP-5981 | AP-5982 | AP-5982 |
| Depth | 5 - 6.5 | 10 - 11.5 | 15 - 16.5 | 5 - 6.5 | 10 - 11.5 |
| Type | PR | PR | PR | PR | PR |
| Analyte | | | | | |
| Bis(2-chloroisopropyl) Ether | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Bis(2-ethylhexyl) Phthalate | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Butylbenzyl Phthalate | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Chrysene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Di-n-butyl Phthalate | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Di-n-octyl Phthalate | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Dibenz(a,h)anthracene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Dibenzofuran | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Diethyl Phthalate | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Dimethyl Phthalate | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Fluoranthene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Fluorene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Hexachlorobenzene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Hexachlorobutadiene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Hexachlorocyclopentadiene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Hexachloroethane | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Indeno(1,2,3-c,d)pyrene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Isophorone | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| N-Nitrosodi-n-propylamine | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| N-Nitrosodimethylamine | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) |
| N-Nitrosodiphenylamine | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Naphthalene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Nitrobenzene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Pentachlorophenol | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) | ND(2.00) |
| Phenanthrene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Phenol | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| Pyrene | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) | ND(0.30) |
| EPA Methods 3550M /8150M | | | | | |
| 2,4,5-T | NA | NA | NA | ND(0.10) | ND(0.10) |
| 2,4,5-TP (Silvex) | NA | NA | NA | ND(0.10) | ND(0.10) |
| 2,4-D | NA | NA | NA | ND(0.20) | ND(0.20) |
| 2,4-DB | NA | NA | NA | ND(0.50) | ND(0.50) |
| Dalapon | NA | NA | NA | ND(1.00) | ND(1.00) |
| Dicamba | NA | NA | NA | ND(0.10) | ND(0.10) |
| Dichloroprop | NA | NA | NA | ND(0.10) | ND(0.10) |
| Dinoseb | NA | NA | NA | ND(0.50) | ND(0.50) |
| MCPA | NA | NA | NA | ND(20.00) | ND(20.00) |
| MCPP | NA | NA | NA | ND(20.00) | ND(20.00) |
| EPA Methods 3540/8080 | | | | | |
| 4,4'-DDD | | | | a<0.09 | ND(0.01) |
| 4,4'-DDE | | | | 0.02 | ND(0.01) |
| 4,4'-DDT | | | | 1.20 | ND(0.01) |
| Aldrin | NA | NA | NA | 0.52 | ND(0.01) |
| Alpha-BHC | NA | NA | NA | 0.01 | ND(0.01) |
| Aroclor 1016 | ND(1.00) | ND(1.00) | ND(1.00) | ND(0.10) | ND(0.10) |
| Aroclor 1221 | ND(1.00) | ND(1.00) | ND(1.00) | ND(0.10) | ND(0.10) |
| Aroclor 1232 | ND(1.00) | ND(1.00) | ND(1.00) | ND(0.10) | ND(0.10) |
| Aroclor 1242 | ND(1.00) | ND(1.00) | ND(1.00) | ND(0.10) | ND(0.10) |
| Aroclor 1248 | ND(1.00) | ND(1.00) | ND(1.00) | ND(0.10) | ND(0.10) |
| Aroclor 1254 | ND(1.00) | ND(1.00) | ND(1.00) | ND(0.10) | ND(0.10) |
| Aroclor 1260 | ND(1.00) | ND(1.00) | ND(1.00) | ND(0.10) | ND(0.10) |
| Beta-BHC | | | | ND(0.03) | ND(0.03) |
| Chlordane | NA | NA | NA | a<2 | ND(0.10) |
| Delta-BHC | NA | NA | NA | ND(0.01) | ND(0.01) |
| Dieldrin | NA | NA | NA | 0.03 | ND(0.01) |
| Endosulfan I | NA | NA | NA | ND(0.01) | ND(0.01) |
| Endosulfan II | NA | NA | NA | a<0.2 | ND(0.01) |
| Endosulfan Sulfate | NA | NA | NA | ND(0.01) | ND(0.01) |
| Endrin | NA | NA | NA | 0.50 | ND(0.01) |
| Endrin Aldehyde | NA | NA | NA | a<0.2 | ND(0.01) |
| Gamma-BHC (Lindane) | | | | 0.02 | ND(0.01) |

# 1993 OU1, PSE2 Soil Data

| Sample Number | 93FW0808SL | 93FW0809SL | 93FW0810SL | 93FW0901SL | 93FW0902SL |
|---|---|---|---|---|---|
| Lab Code | K3978-7 | K3978-8 | K3978-9 | K4130-5 | K4130-6 |
| Date | 7/7/93 | 7/7/93 | 7/7/93 | 7/14/93 | 7/14/93 |
| Location | AP-5981 | AP-5981 | AP-5981 | AP-5982 | AP-5982 |
| Depth | 5 - 6.5 | 10 - 11.5 | 15 - 16.5 | 5 - 6.5 | 10 - 11.5 |
| Type | PR | PR | PR | PR | PR |
| Analyte | | | | | |
| Heptachlor | | | | 0.01 | ND(0.01) |
| Heptachlor Epoxide | | | | ND(0.01) | ND(0.01) |
| Methoxychlor | NA | NA | NA | ND(0.02) | ND(0.02) |
| Toxaphene | NA | NA | NA | a<2 | ND(0.30) |
| EPA Methods 3540/8140 | | | | | |
| Azinphos Methyl | NA | NA | NA | ND(0.10) | ND(0.10) |
| Bolstar | NA | NA | NA | ND(0.10) | ND(0.10) |
| Chlorpyrifos | NA | NA | NA | ND(0.10) | ND(0.10) |
| Coumaphos | NA | NA | NA | ND(0.10) | ND(0.10) |
| Demeton-O,S | NA | NA | NA | ND(0.20) | ND(0.20) |
| Diazinon | NA | NA | NA | ND(0.10) | ND(0.10) |
| Dichlorvos | NA | NA | NA | ND(0.10) | ND(0.10) |
| Disulfoton | NA | NA | NA | ND(0.10) | ND(0.10) |
| Ethoprop | NA | NA | NA | ND(0.10) | ND(0.10) |
| Fensulfothion | NA | NA | NA | ND(0.10) | ND(0.10) |
| Fenthion | NA | NA | NA | ND(0.10) | ND(0.10) |
| Malathion | NA | NA | NA | ND(0.10) | ND(0.10) |
| Parathion Methyl | NA | NA | NA | ND(0.10) | ND(0.10) |
| Merphos | NA | NA | NA | ND(0.10) | ND(0.10) |
| Mevinphos | NA | NA | NA | ND(0.10) | ND(0.10) |
| Naled | NA | NA | NA | ND(0.10) | ND(0.10) |
| Phorate | NA | NA | NA | ND(0.10) | ND(0.10) |
| Ronnel | NA | NA | NA | ND(0.10) | ND(0.10) |
| Stirophos | NA | NA | NA | ND(0.10) | ND(0.10) |
| Tokuthion (Prothiofos) | NA | NA | NA | ND(0.10) | ND(0.10) |
| Trichloronate | NA | NA | NA | ND(0.10) | ND(0.10) |
| Metals | | | | | |
| Arsenic (7060) | 6.00 | 4.00 | 3.00 | NA | NA |
| Barium (6010) | 74.00 | 53.00 | 45.00 | NA | NA |
| Cadmium (6010) | ND(1.00) | ND(1.00) | ND(1.00) | NA | NA |
| Chromium (6010) | 17.00 | 12.00 | 11.00 | NA | NA |
| Lead (7421) | 5.00 | 4.00 | 4.00 | NA | NA |
| Mercury (7471) | ND(0.20) | ND(0.20) | ND(0.20) | NA | NA |
| Selenium (7740) | ND(1.00) | ND(1.00) | ND(1.00) | NA | NA |
| Silver (6010) | ND(2.00) | ND(2.00) | ND(2.00) | NA | NA |
| EPA Method 8290 | | | | | |
| OCDD | NA | NA | NA | NA | NA |
| OCDF | NA | NA | NA | NA | NA |
| Total HpCDD | NA | NA | NA | NA | NA |
| Total HpCDF | NA | NA | NA | NA | NA |
| Total HxCDD | NA | NA | NA | NA | NA |
| Total HxCDF | NA | NA | NA | NA | NA |
| Total PeCDD | NA | NA | NA | NA | NA |
| Total PeCDF | NA | NA | NA | NA | NA |
| Total TCDD | NA | NA | NA | NA | NA |
| Total TCDF | NA | NA | NA | NA | NA |

# 1993 OU1, PSE2 Soil Data

| Sample Number | 93FW0904SL | 93FW0905SL |
|---|---|---|
| Lab Code | K4130-7 | K4130-8 |
| Date | 7/14/93 | 7/14/93 |
| Location | AP-5982 | AP-5982 |
| Depth | 10 - 11.5 | 15 - 16.5 |
| Type | QC | PR |
| Analyte | | |
| EPA Methods 3540/8100 DRO | | |
| DRO | NA | NA |
| EPA Methods 5030/8015 GRO | | |
| GRO | | |
| EPA Method 8290 | | |
| 1,2,3,4,6,7,8-HpCDD | NA | NA |
| 1,2,3,4,6,7,8-HpCDF | NA | NA |
| 1,2,3,4,7,8,9-HpCDF | NA | NA |
| 1,2,3,4,7,8-HxCDD | NA | NA |
| 1,2,3,4,7,8-HxCDF | NA | NA |
| 1,2,3,6,7,8-HxCDD | NA | NA |
| 1,2,3,6,7,8-HxCDF | NA | NA |
| 1,2,3,7,8,9-HxCDD | NA | NA |
| 1,2,3,7,8,9-HxCDF | NA | NA |
| 1,2,3,7,8-PeCDD | NA | NA |
| 1,2,3,7,8-PeCDF | NA | NA |
| 2,3,4,6,7,8-HxCDF | NA | NA |
| 2,3,4,7,8-PeCDF | NA | NA |
| 2,3,7,8-TCDD | NA | NA |
| 2,3,7,8-TCDF | NA | NA |
| EPA Methods 3550/8270 | | |
| 1,2,4-Trichlorobenzene | ND(0.30) | ND(0.30) |
| 1,2-Dichlorobenzene | ND(0.30) | ND(0.30) |
| 1,3-Dichlorobenzene | ND(0.30) | ND(0.30) |
| 1,4-Dichlorobenzene | ND(0.30) | ND(0.30) |
| 2,4,5-Trichlorophenol | ND(0.30) | ND(0.30) |
| 2,4,6-Trichlorophenol | ND(0.30) | ND(0.30) |
| 2,4-Dichlorophenol | ND(0.30) | ND(0.30) |
| 2,4-Dimethylphenol | ND(0.30) | ND(0.30) |
| 2,4-Dinitrophenol | ND(2.00) | ND(2.00) |
| 2,4-Dinitrotoluene | ND(0.30) | ND(0.30) |
| 2,6-Dinitrotoluene | ND(0.30) | ND(0.30) |
| 2-Chloronaphthalene | ND(0.30) | ND(0.30) |
| 2-Chlorophenol | ND(0.30) | ND(0.30) |
| 2-Methyl-4,6-dinitrophenol | ND(2.00) | ND(2.00) |
| 2-Methylnaphthalene | ND(0.30) | ND(0.30) |
| 2-Methylphenol | ND(0.30) | ND(0.30) |
| 2-Nitroaniline | ND(2.00) | ND(2.00) |
| 2-Nitrophenol | ND(0.30) | ND(0.30) |
| 3,3'-Dichlorobenzidine | ND(2.00) | ND(2.00) |
| 3- and 4-Methylphenol_ | ND(0.30) | ND(0.30) |
| 3-Nitroaniline | ND(2.00) | ND(2.00) |
| 4-Bromophenyl Phenyl Ether | ND(0.30) | ND(0.30) |
| 4-Chloro-3-methylphenol | ND(0.30) | ND(0.30) |
| 4-Chloroaniline | ND(0.30) | ND(0.30) |
| 4-Chlorophenyl Phenyl Ether | ND(0.30) | ND(0.30) |
| 4-Nitroaniline | ND(2.00) | ND(2.00) |
| 4-Nitrophenol | ND(2.00) | ND(2.00) |
| Acenaphthene | ND(0.30) | ND(0.30) |
| Acenaphthylene | ND(0.30) | ND(0.30) |
| Aniline | ND(1.00) | ND(1.00) |
| Anthracene | ND(0.30) | ND(0.30) |
| Benz(a)anthracene | ND(0.30) | ND(0.30) |
| Benzo(a)pyrene | ND(0.30) | ND(0.30) |
| Benzo(b)fluoranthene | ND(0.30) | ND(0.30) |
| Benzo(g,h,i)perylene | ND(0.30) | ND(0.30) |
| Benzo(k)fluoranthene | ND(0.30) | ND(0.30) |
| Benzoic Acid | ND(2.00) | ND(2.00) |
| Benzyl Alcohol | ND(0.30) | ND(0.30) |
| Bis(2-chloroethoxy)methane | ND(0.30) | ND(0.30) |
| Bis(2-chloroethyl) Ether | ND(0.30) | ND(0.30) |

# 1993 OU1, PSE2 Soil Data

| Sample Number | 93FW0904SL | 93FW0905SL |
|---|---|---|
| Lab Code | K4130-7 | K4130-8 |
| Date | 7/14/93 | 7/14/93 |
| Location | AP-5982 | AP-5982 |
| Depth | 10 - 11.5 | 15 - 16.5 |
| Type | QC | PR |
| Analyte | | |
| Bis(2-chloroisopropyl) Ether | ND(0.30) | ND(0.30) |
| Bis(2-ethylhexyl) Phthalate | ND(0.30) | ND(0.30) |
| Butylbenzyl Phthalate | ND(0.30) | ND(0.30) |
| Chrysene | ND(0.30) | ND(0.30) |
| Di-n-butyl Phthalate | ND(0.30) | ND(0.30) |
| Di-n-octyl Phthalate | ND(0.30) | ND(0.30) |
| Dibenz(a,h)anthracene | ND(0.30) | ND(0.30) |
| Dibenzofuran | ND(0.30) | ND(0.30) |
| Diethyl Phthalate | ND(0.30) | ND(0.30) |
| Dimethyl Phthalate | ND(0.30) | ND(0.30) |
| Fluoranthene | ND(0.30) | ND(0.30) |
| Fluorene | ND(0.30) | ND(0.30) |
| Hexachlorobenzene | ND(0.30) | ND(0.30) |
| Hexachlorobutadiene | ND(0.30) | ND(0.30) |
| Hexachlorocyclopentadiene | ND(0.30) | ND(0.30) |
| Hexachloroethane | ND(0.30) | ND(0.30) |
| Indeno(1,2,3-c,d)pyrene | ND(0.30) | ND(0.30) |
| Isophorone | ND(0.30) | ND(0.30) |
| N-Nitrosodi-n-propylamine | ND(0.30) | ND(0.30) |
| N-Nitrosodimethylamine | ND(2.00) | ND(2.00) |
| N-Nitrosodiphenylamine | ND(0.30) | ND(0.30) |
| Naphthalene | ND(0.30) | ND(0.30) |
| Nitrobenzene | ND(0.30) | ND(0.30) |
| Pentachlorophenol | ND(2.00) | ND(2.00) |
| Phenanthrene | ND(0.30) | ND(0.30) |
| Phenol | ND(0.30) | ND(0.30) |
| Pyrene | ND(0.30) | ND(0.30) |
| EPA Methods 3550M /8150M | | |
| 2,4,5-T | ND(0.10) | ND(0.10) |
| 2,4,5-TP (Silvex) | ND(0.10) | ND(0.10) |
| 2,4-D | ND(0.20) | ND(0.20) |
| 2,4-DB | ND(0.50) | ND(0.50) |
| Dalapon | ND(1.00) | ND(1.00) |
| Dicamba | ND(0.10) | ND(0.10) |
| Dichloroprop | ND(0.10) | ND(0.10) |
| Dinoseb | ND(0.50) | ND(0.50) |
| MCPA | ND(20.00) | ND(20.00) |
| MCPP | ND(20.00) | ND(20.00) |
| EPA Methods 3540/8080 | | |
| 4,4'-DDD | ND(0.01) | ND(0.01) |
| 4,4'-DDE | ND(0.01) | ND(0.01) |
| 4,4'-DDT | ND(0.01) | ND(0.01) |
| Aldrin | ND(0.01) | ND(0.01) |
| Alpha-BHC | ND(0.01) | ND(0.01) |
| Aroclor 1016 | ND(0.10) | ND(0.10) |
| Aroclor 1221 | ND(0.10) | ND(0.10) |
| Aroclor 1232 | ND(0.10) | ND(0.10) |
| Aroclor 1242 | ND(0.10) | ND(0.10) |
| Aroclor 1248 | ND(0.10) | ND(0.10) |
| Aroclor 1254 | ND(0.10) | ND(0.10) |
| Aroclor 1260 | ND(0.10) | ND(0.10) |
| Beta-BHC | ND(0.03) | ND(0.03) |
| Chlordane | ND(0.10) | ND(0.10) |
| Delta-BHC | ND(0.01) | ND(0.01) |
| Dieldrin | ND(0.01) | ND(0.01) |
| Endosulfan I | ND(0.01) | ND(0.01) |
| Endosulfan II | ND(0.01) | ND(0.01) |
| Endosulfan Sulfate | ND(0.01) | ND(0.01) |
| Endrin | ND(0.01) | ND(0.01) |
| Endrin Aldehyde | ND(0.01) | ND(0.01) |
| Gamma-BHC (Lindane) | ND(0.01) | ND(0.01) |

# 1993 OU1, PSE2 Soil Data

| Sample Number | 93FW0904SL | 93FW0905SL |
|---|---|---|
| Lab Code | K4130-7 | K4130-8 |
| Date | 7/14/93 | 7/14/93 |
| Location | AP-5982 | AP-5982 |
| Depth | 10 - 11.5 | 15 - 16.5 |
| Type | QC | PR |
| Analyte | | |
| Heptachlor | ND(0.01) | ND(0.01) |
| Heptachlor Epoxide | ND(0.01) | ND(0.01) |
| Methoxychlor | ND(0.02) | ND(0.02) |
| Toxaphene | ND(0.30) | ND(0.30) |
| EPA Methods 3540/8140 | | |
| Azinphos Methyl | ND(0.10) | ND(0.10) |
| Bolstar | ND(0.10) | ND(0.10) |
| Chlorpyrifos | ND(0.10) | ND(0.10) |
| Coumaphos | ND(0.10) | ND(0.10) |
| Demeton-O,S | ND(0.20) | ND(0.20) |
| Diazinon | ND(0.10) | ND(0.10) |
| Dichlorvos | ND(0.10) | ND(0.10) |
| Disulfoton | ND(0.10) | ND(0.10) |
| Ethoprop | ND(0.10) | ND(0.10) |
| Fensulfothion | ND(0.10) | ND(0.10) |
| Fenthion | ND(0.10) | ND(0.10) |
| Malathion | ND(0.10) | ND(0.10) |
| Parathion Methyl | ND(0.10) | ND(0.10) |
| Merphos | ND(0.10) | ND(0.10) |
| Mevinphos | ND(0.10) | ND(0.10) |
| Naled | ND(0.10) | ND(0.10) |
| Phorate | ND(0.10) | ND(0.10) |
| Ronnel | ND(0.10) | ND(0.10) |
| Stirophos | ND(0.10) | ND(0.10) |
| Tokuthion (Prothiofos) | ND(0.10) | ND(0.10) |
| Trichloronate | ND(0.10) | ND(0.10) |
| Metals | | |
| Arsenic (7060) | NA | NA |
| Barium (6010) | NA | NA |
| Cadmium (6010) | NA | NA |
| Chromium (6010) | NA | NA |
| Lead (7421) | NA | NA |
| Mercury (7471) | NA | NA |
| Selenium (7740) | NA | NA |
| Silver (6010) | NA | NA |
| EPA Method 8290 | | |
| OCDD | NA | NA |
| OCDF | NA | NA |
| Total HpCDD | NA | NA |
| Total HpCDF | NA | NA |
| Total HxCDD | NA | NA |
| Total HxCDF | NA | NA |
| Total PeCDD | NA | NA |
| Total PeCDF | NA | NA |
| Total TCDD | NA | NA |
| Total TCDF | NA | NA |

# 1993 OU1, PSE2 Soil Data

| Sample Number | | 93FW0501SL | 93FW0502SL | 93FW0503SL | 93FW0504SL | 93FW0505SL |
|---|---|---|---|---|---|---|
| Lab Code | | K3794-1 | K3794-2 | K3794-3 | K3794-4 | K3794-5 |
| Date | | 6/29/93 | 6/29/93 | 6/29/93 | 6/29/93 | 6/29/93 |
| Location | | 1599-1SS | 1599-2SS | 1599-3SS | 1599-4SS | 1599-5SS |
| Depth | | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 |
| Type | | PR | PR | PR | PR | PR |
| Analyte | Units | | | | | |
| EPA Method 8260 | | | | | | |
| 1,1,1,2-Tetrachloroethane | µg/Kg (ppb) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1,1-Trichloroethane (TCA) | µg/Kg (ppb) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1,2,2-Tetrachloroethane | µg/Kg (ppb) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1,2-Trichloroethane | µg/Kg (ppb) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1-Dichloroethane | µg/Kg (ppb) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1-Dichloroethene | µg/Kg (ppb) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1-Dichloropropene | µg/Kg (ppb) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,2,3-Trichlorobenzene | µg/Kg (ppb) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,2,3-Trichloropropane | µg/Kg (ppb) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,2,4-Trichlorobenzene | µg/Kg (ppb) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,2,4-Trimethylbenzene | µg/Kg (ppb) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,2-Dibromo-3-chloropropane (DBCP) | µg/Kg (ppb) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,2-Dibromoethane (EDB) | µg/Kg (ppb) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,2-Dichlorobenzene | µg/Kg (ppb) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,2-Dichloroethane | µg/Kg (ppb) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,2-Dichloropropane | µg/Kg (ppb) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,3,5-Trimethylbenzene | µg/Kg (ppb) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,3-Dichlorobenzene | µg/Kg (ppb) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,3-Dichloropropane | µg/Kg (ppb) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,4-Dichlorobenzene | µg/Kg (ppb) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 2,2-Dichloropropane | µg/Kg (ppb) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 2-Butanone (MEK) | µg/Kg (ppb) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) |
| 2-Chlorotoluene | µg/Kg (ppb) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 2-Hexanone | µg/Kg (ppb) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) |
| 4-Chlorotoluene | µg/Kg (ppb) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 4-Isopropyltoluene | µg/Kg (ppb) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 4-Methyl-2-pentanone (MIBK) | µg/Kg (ppb) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) |
| Acetone | µg/Kg (ppb) | ND(50.00) | ND(50.00) | ND(50.00) | ND(50.00) | ND(50.00) |
| Benzene | µg/Kg (ppb) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Bromobenzene | µg/Kg (ppb) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Bromochloromethane | µg/Kg (ppb) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Bromodichloromethane | µg/Kg (ppb) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Bromoform | µg/Kg (ppb) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Bromomethane | µg/Kg (ppb) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Carbon Disulfide | µg/Kg (ppb) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Carbon Tetrachloride | µg/Kg (ppb) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Chlorobenzene | µg/Kg (ppb) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Chloroethane | µg/Kg (ppb) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Chloroform | µg/Kg (ppb) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Chloromethane | µg/Kg (ppb) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| cis-1,2-Dichloroethene | µg/Kg (ppb) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| cis-1,3-Dichloropropene | µg/Kg (ppb) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Dibromochloromethane | µg/Kg (ppb) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Dibromomethane | µg/Kg (ppb) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Dichlorodifluoromethane (CFC 12) | µg/Kg (ppb) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Ethylbenzene | µg/Kg (ppb) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Hexachlorobutadiene | µg/Kg (ppb) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| Isopropylbenzene | µg/Kg (ppb) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| Methylene Chloride | µg/Kg (ppb) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) |
| n-Butylbenzene | µg/Kg (ppb) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| n-Propylbenzene | µg/Kg (ppb) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| Naphthalene | µg/Kg (ppb) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| sec-Butylbenzene | µg/Kg (ppb) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| Styrene | µg/Kg (ppb) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| tert-Butylbenzene | µg/Kg (ppb) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| Tetrachloroethene (PCE) | µg/Kg (ppb) | ND(5.00) | 7.00 | ND(5.00) | 7.00 | ND(5.00) |
| Toluene | µg/Kg (ppb) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Total Xylenes | µg/Kg (ppb) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |

# 1993 OU1, PSE2 Soil Data

| Sample Number | | 93FW0501SL | 93FW0502SL | 93FW0503SL | 93FW0504SL | 93FW0505SL |
|---|---|---|---|---|---|---|
| Lab Code | | K3794-1 | K3794-2 | K3794-3 | K3794-4 | K3794-5 |
| Date | | 6/29/93 | 6/29/93 | 6/29/93 | 6/29/93 | 6/29/93 |
| Location | | 1599-1SS | 1599-2SS | 1599-3SS | 1599-4SS | 1599-5SS |
| Depth | | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 |
| Type | | PR | PR | PR | PR | PR |
| Analyte | Units | | | | | |
| trans-1,2-Dichloroethene | µg/Kg (ppb) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| trans-1,3-Dichloropropene | µg/Kg (ppb) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Trichloroethene (TCE) | µg/Kg (ppb) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Trichlorofluoromethane (CFC 11) | µg/Kg (ppb) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Vinyl Chloride | µg/Kg (ppb) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |

# 1993 OU1, PSE2 Soil Data

| Sample Number | 93FW0506SL | 93FW0507SL | 93FW0508SL | 93FW0509SL | 93FW0510SL | 93FW0511SL |
|---|---|---|---|---|---|---|
| Lab Code | K3794-6 | K3794-7 | K3794-8 | K3794-9 | K3794-10 | K3794-15 |
| Date | 6/29/93 | 6/29/93 | 6/29/93 | 6/29/93 | 6/29/93 | 6/29/93 |
| Location | 1599-6SS | 1599-7SS | 1599-8SS | 1599-9SS | 1599-10SS | 1599-10SS |
| Depth | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 |
| Type | PR | PR | PR | PR | PR | QC |
| Analyte | | | | | | |
| EPA Method 8260 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1,1-Trichloroethane (TCA) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1,2,2-Tetrachloroethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1,2-Trichloroethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1-Dichloroethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1-Dichloroethene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1-Dichloropropene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,2,3-Trichlorobenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,2,3-Trichloropropane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,2,4-Trichlorobenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,2,4-Trimethylbenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,2-Dibromoethane (EDB) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,2-Dichlorobenzene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,2-Dichloroethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,2-Dichloropropane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,3,5-Trimethylbenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,3-Dichlorobenzene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,3-Dichloropropane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,4-Dichlorobenzene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 2,2-Dichloropropane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 2-Butanone (MEK) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) |
| 2-Chlorotoluene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 2-Hexanone | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) |
| 4-Chlorotoluene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 4-Isopropyltoluene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 4-Methyl-2-pentanone (MIBK) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) |
| Acetone | ND(50.00) | ND(50.00) | ND(50.00) | ND(50.00) | ND(50.00) | ND(50.00) |
| Benzene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Bromobenzene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Bromochloromethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Bromodichloromethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Bromoform | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Bromomethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Carbon Disulfide | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Carbon Tetrachloride | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Chlorobenzene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Chloroethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Chloroform | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Chloromethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| cis-1,2-Dichloroethene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| cis-1,3-Dichloropropene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Dibromochloromethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Dibromomethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Dichlorodifluoromethane (CFC 12) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Ethylbenzene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Hexachlorobutadiene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| Isopropylbenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| Methylene Chloride | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) |
| n-Butylbenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| n-Propylbenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| Naphthalene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| sec-Butylbenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| Styrene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| tert-Butylbenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| Tetrachloroethene (PCE) | ND(5.00) | 7.00 | ND(5.00) | 6.00 | ND(5.00) | ND(5.00) |
| Toluene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Total Xylenes | ND(5.00) | ND(5.00) | 6.00 | 6.00 | ND(5.00) | ND(5.00) |

# 1993 OU1, PSE2 Soil Data

| Sample Number | 93FW0506SL | 93FW0507SL | 93FW0508SL | 93FW0509SL | 93FW0510SL | 93FW0511SL |
|---|---|---|---|---|---|---|
| Lab Code | K3794-6 | K3794-7 | K3794-8 | K3794-9 | K3794-10 | K3794-15 |
| Date | 6/29/93 | 6/29/93 | 6/29/93 | 6/29/93 | 6/29/93 | 6/29/93 |
| Location | 1599-6SS | 1599-7SS | 1599-8SS | 1599-9SS | 1599-10SS | 1599-10SS |
| Depth | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 |
| Type | PR | PR | PR | PR | PR | QC |
| Analyte | | | | | | |
| trans-1,2-Dichloroethene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| trans-1,3-Dichloropropene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Trichloroethene (TCE) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Trichlorofluoromethane (CFC 11) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Vinyl Chloride | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |

# 1993 OU1, PSE2 Soil Data

| Sample Number | 93FW0513SL | 93FW0514SL | 93FW0515SL | 93FW0516SL | 93FW0517SL | 93FW0518SL |
|---|---|---|---|---|---|---|
| Lab Code | K3794-16 | K3794-17 | K3794-18 | K3794-19 | K3794-20 | K3794-21 |
| Date | 6/29/93 | 6/29/93 | 6/29/93 | 6/29/93 | 6/29/93 | 6/29/93 |
| Location | 1599-11SS | 1599-12SS | 1599-13SS | 1599-14SS | 1599-15SS | 1599-16SS |
| Depth | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 |
| Type | PR | PR | PR | PR | PR | PR |
| Analyte | | | | | | |
| EPA Method 8260 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1,1-Trichloroethane (TCA) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1,2,2-Tetrachloroethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1,2-Trichloroethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1-Dichloroethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1-Dichloroethene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1-Dichloropropene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,2,3-Trichlorobenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,2,3-Trichloropropane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,2,4-Trichlorobenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,2,4-Trimethylbenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,2-Dibromoethane (EDB) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,2-Dichlorobenzene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,2-Dichloroethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,2-Dichloropropane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,3,5-Trimethylbenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,3-Dichlorobenzene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,3-Dichloropropane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,4-Dichlorobenzene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 2,2-Dichloropropane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 2-Butanone (MEK) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) |
| 2-Chlorotoluene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 2-Hexanone | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) |
| 4-Chlorotoluene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 4-Isopropyltoluene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 4-Methyl-2-pentanone (MIBK) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) |
| Acetone | ND(50.00) | ND(50.00) | ND(50.00) | ND(50.00) | ND(50.00) | ND(50.00) |
| Benzene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Bromobenzene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Bromochloromethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Bromodichloromethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Bromoform | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Bromomethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Carbon Disulfide | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Carbon Tetrachloride | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Chlorobenzene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Chloroethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Chloroform | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Chloromethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| cis-1,2-Dichloroethene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| cis-1,3-Dichloropropene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Dibromochloromethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Dibromomethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Dichlorodifluoromethane (CFC 12) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Ethylbenzene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Hexachlorobutadiene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| Isopropylbenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| Methylene Chloride | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) |
| n-Butylbenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| n-Propylbenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| Naphthalene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| sec-Butylbenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| Styrene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| tert-Butylbenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| Tetrachloroethene (PCE) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Toluene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Total Xylenes | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |

# 1993 OU1, PSE2 Soil Data

| Sample Number | 93FW0513SL | 93FW0514SL | 93FW0515SL | 93FW0516SL | 93FW0517SL | 93FW0518SL |
|---|---|---|---|---|---|---|
| Lab Code | K3794-16 | K3794-17 | K3794-18 | K3794-19 | K3794-20 | K3794-21 |
| Date | 6/29/93 | 6/29/93 | 6/29/93 | 6/29/93 | 6/29/93 | 6/29/93 |
| Location | 1599-11SS | 1599-12SS | 1599-13SS | 1599-14SS | 1599-15SS | 1599-16SS |
| Depth | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 |
| Type | PR | PR | PR | PR | PR | PR |
| Analyte | | | | | | |
| trans-1,2-Dichloroethene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| trans-1,3-Dichloropropene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Trichloroethene (TCE) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Trichlorofluoromethane (CFC 11) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Vinyl Chloride | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |

# 1993 OU1, PSE2 Soil Data

| Sample Number | 93FW0519SL | 93FW0520SL | 93FW0521SL | 93FW0522SL | 93FW0524SL | 93FW0525SL |
|---|---|---|---|---|---|---|
| Lab Code | K3794-22 | K3794-23 | K3794-11 | K3794-12 | K3794-13 | K4019-1 |
| Date | 6/29/93 | 6/29/93 | 6/29/93 | 6/29/93 | 6/29/93 | 7/8/93 |
| Location | 1599-17SS | 1599-18SS | 1599-19SS | 1599-20SS | 1599-20SS | AP-5969 |
| Depth | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 | 2 - 3.5 |
| Type | PR | PR | PR | PR | QC | PR |
| Analyte | | | | | | |
| EPA Method 8260 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND(5.00) | ND(5.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1,1-Trichloroethane (TCA) | ND(5.00) | ND(5.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1,2,2-Tetrachloroethane | ND(5.00) | ND(5.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1,2-Trichloroethane | ND(5.00) | ND(5.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1-Dichloroethane | ND(5.00) | ND(5.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1-Dichloroethene | ND(5.00) | ND(5.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1-Dichloropropene | ND(5.00) | ND(5.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,2,3-Trichlorobenzene | ND(20.00) | ND(20.00) | ND | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,2,3-Trichloropropane | ND(5.00) | ND(5.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,2,4-Trichlorobenzene | ND(20.00) | ND(20.00) | ND | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,2,4-Trimethylbenzene | ND(20.00) | ND(20.00) | 14000.00 | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND(20.00) | ND(20.00) | ND | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,2-Dibromoethane (EDB) | ND(20.00) | ND(20.00) | ND | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,2-Dichlorobenzene | ND(5.00) | ND(5.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,2-Dichloroethane | ND(5.00) | ND(5.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,2-Dichloropropane | ND(5.00) | ND(5.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,3,5-Trimethylbenzene | ND(20.00) | ND(20.00) | 14000.00 | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,3-Dichlorobenzene | ND(5.00) | ND(5.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,3-Dichloropropane | ND(5.00) | ND(5.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,4-Dichlorobenzene | ND(5.00) | ND(5.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| 2,2-Dichloropropane | ND(5.00) | ND(5.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| 2-Butanone (MEK) | ND(10.00) | ND(10.00) | ND | ND(10.00) | ND(10.00) | ND(10.00) |
| 2-Chlorotoluene | ND(20.00) | ND(20.00) | ND | ND(20.00) | ND(20.00) | ND(20.00) |
| 2-Hexanone | ND(10.00) | ND(10.00) | ND | ND(10.00) | ND(10.00) | ND(10.00) |
| 4-Chlorotoluene | ND(20.00) | ND(20.00) | ND | ND(20.00) | ND(20.00) | ND(20.00) |
| 4-Isopropyltoluene | ND(20.00) | ND(20.00) | ND | ND(20.00) | ND(20.00) | ND(20.00) |
| 4-Methyl-2-pentanone (MIBK) | ND(10.00) | ND(10.00) | ND | ND(10.00) | ND(10.00) | ND(10.00) |
| Acetone | ND(50.00) | ND(50.00) | ND | ND(50.00) | ND(50.00) | ND(50.00) |
| Benzene | ND(5.00) | ND(5.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| Bromobenzene | ND(5.00) | ND(5.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| Bromochloromethane | ND(5.00) | ND(5.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| Bromodichloromethane | ND(5.00) | ND(5.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| Bromoform | ND(5.00) | ND(5.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| Bromomethane | ND(5.00) | ND(5.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| Carbon Disulfide | ND(5.00) | ND(5.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| Carbon Tetrachloride | ND(5.00) | ND(5.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| Chlorobenzene | ND(5.00) | ND(5.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| Chloroethane | ND(5.00) | ND(5.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| Chloroform | ND(5.00) | ND(5.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| Chloromethane | ND(5.00) | ND(5.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| cis-1,2-Dichloroethene | ND(5.00) | ND(5.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| cis-1,3-Dichloropropene | ND(5.00) | ND(5.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| Dibromochloromethane | ND(5.00) | ND(5.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| Dibromomethane | ND(5.00) | ND(5.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| Dichlorodifluoromethane (CFC 12) | ND(5.00) | ND(5.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| Ethylbenzene | ND(5.00) | ND(5.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| Hexachlorobutadiene | ND(20.00) | ND(20.00) | ND | ND(20.00) | ND(20.00) | ND(20.00) |
| Isopropylbenzene | ND(20.00) | ND(20.00) | ND | ND(20.00) | ND(20.00) | ND(20.00) |
| Methylene Chloride | ND(10.00) | ND(10.00) | ND | ND(10.00) | ND(10.00) | ND(10.00) |
| n-Butylbenzene | ND(20.00) | ND(20.00) | ND | ND(20.00) | ND(20.00) | ND(20.00) |
| n-Propylbenzene | ND(20.00) | ND(20.00) | ND | ND(20.00) | ND(20.00) | ND(20.00) |
| Naphthalene | ND(20.00) | ND(20.00) | 8800.00 | ND(20.00) | ND(20.00) | ND(20.00) |
| sec-Butylbenzene | ND(20.00) | ND(20.00) | ND | ND(20.00) | ND(20.00) | ND(20.00) |
| Styrene | ND(5.00) | ND(5.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| tert-Butylbenzene | ND(20.00) | ND(20.00) | ND | ND(20.00) | ND(20.00) | ND(20.00) |
| Tetrachloroethene (PCE) | ND(5.00) | ND(5.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| Toluene | ND(5.00) | ND(5.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| Total Xylenes | ND(5.00) | ND(5.00) | 3600.00 | ND(5.00) | ND(5.00) | ND(5.00) |

# 1993 OU1, PSE2 Soil Data

| Sample Number | 93FW0519SL | 93FW0520SL | 93FW0521SL | 93FW0522SL | 93FW0524SL | 93FW0525SL |
|---|---|---|---|---|---|---|
| Lab Code | K3794-22 | K3794-23 | K3794-11 | K3794-12 | K3794-13 | K4019-1 |
| Date | 6/29/93 | 6/29/93 | 6/29/93 | 6/29/93 | 6/29/93 | 7/8/93 |
| Location | 1599-17SS | 1599-18SS | 1599-19SS | 1599-20SS | 1599-20SS | AP-5969 |
| Depth | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 | 2 - 3.5 |
| Type | PR | PR | PR | PR | QC | PR |
| Analyte | | | | | | |
| trans-1,2-Dichloroethene | ND(5.00) | ND(5.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| trans-1,3-Dichloropropene | ND(5.00) | ND(5.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| Trichloroethene (TCE) | ND(5.00) | ND(5.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| Trichlorofluoromethane (CFC 11) | ND(5.00) | ND(5.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| Vinyl Chloride | ND(5.00) | ND(5.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |

# 1993 OU1, PSE2 Soil Data

| Sample Number | 93FW0526SL | 93FW0527SL | 93FW0528SL | 93FW0530SL | 93FW0531SL | 93FW0532SL |
|---|---|---|---|---|---|---|
| Lab Code | K4019-2 | K4019-3 | K4019-4 | K4019-5 | K4019-6 | K4019-7 |
| Date | 7/8/93 | 7/8/93 | 7/8/93 | 7/8/93 | 7/8/93 | 7/8/93 |
| Location | AP-5969 | AP-5970 | AP-5970 | AP-5970 | AP-5971 | AP-5971 |
| Depth | 5 - 6.5 | 2 - 3.5 | 5 - 6.5 | 5 - 6.5 | 2 - 3.5 | 5 - 6.5 |
| Type | PR | PR | PR | QC | PR | PR |
| Analyte | | | | | | |
| EPA Method 8260 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1,1-Trichloroethane (TCA) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1,2,2-Tetrachloroethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1,2-Trichloroethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1-Dichloroethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1-Dichloroethene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1-Dichloropropene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,2,3-Trichlorobenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,2,3-Trichloropropane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,2,4-Trichlorobenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,2,4-Trimethylbenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,2-Dibromoethane (EDB) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,2-Dichlorobenzene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,2-Dichloroethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,2-Dichloropropane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,3,5-Trimethylbenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,3-Dichlorobenzene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,3-Dichloropropane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,4-Dichlorobenzene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 2,2-Dichloropropane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 2-Butanone (MEK) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) |
| 2-Chlorotoluene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 2-Hexanone | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) |
| 4-Chlorotoluene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 4-Isopropyltoluene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 4-Methyl-2-pentanone (MIBK) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) |
| Acetone | ND(50.00) | ND(50.00) | ND(50.00) | ND(50.00) | ND(50.00) | ND(50.00) |
| Benzene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Bromobenzene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Bromochloromethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Bromodichloromethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Bromoform | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Bromomethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Carbon Disulfide | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Carbon Tetrachloride | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Chlorobenzene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Chloroethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Chloroform | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Chloromethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| cis-1,2-Dichloroethene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| cis-1,3-Dichloropropene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Dibromochloromethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Dibromomethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Dichlorodifluoromethane (CFC 12) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Ethylbenzene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Hexachlorobutadiene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| Isopropylbenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| Methylene Chloride | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) |
| n-Butylbenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| n-Propylbenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| Naphthalene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| sec-Butylbenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| Styrene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| tert-Butylbenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| Tetrachloroethene (PCE) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Toluene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Total Xylenes | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |

# 1993 OU1, PSE2 Soil Data

| Sample Number | 93FW0526SL | 93FW0527SL | 93FW0528SL | 93FW0530SL | 93FW0531SL | 93FW0532SL |
|---|---|---|---|---|---|---|
| Lab Code | K4019-2 | K4019-3 | K4019-4 | K4019-5 | K4019-6 | K4019-7 |
| Date | 7/8/93 | 7/8/93 | 7/8/93 | 7/8/93 | 7/8/93 | 7/8/93 |
| Location | AP-5969 | AP-5970 | AP-5970 | AP-5970 | AP-5971 | AP-5971 |
| Depth | 5 - 6.5 | 2 - 3.5 | 5 - 6.5 | 5 - 6.5 | 2 - 3.5 | 5 - 6.5 |
| Type | PR | PR | PR | QC | PR | PR |
| Analyte | | | | | | |
| trans-1,2-Dichloroethene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| trans-1,3-Dichloropropene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Trichloroethene (TCE) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Trichlorofluoromethane (CFC 11) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Vinyl Chloride | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |

# 1993 OU1, PSE2 Soil Data

| Sample Number | 93FW0533SL | 93FW0534SL | 93FW0535SL | 93FW0536SL | 93FW0538SL | 93FW0539SL |
|---|---|---|---|---|---|---|
| Lab Code | K4019-8 | K4019-9 | K4019-10 | K4019-11 | K4019-12 | K4019-13 |
| Date | 7/8/93 | 7/8/93 | 7/8/93 | 7/8/93 | 7/8/93 | 7/8/93 |
| Location | AP-5972 | AP-5972 | AP-5973 | AP-5973 | AP-5973 | AP-5973 |
| Depth | 2 - 3.5 | 5 - 6.5 | 5 - 6.5 | 10 - 11.5 | 10 - 11.5 | 15 - 16.5 |
| Type | PR | PR | PR | PR | QC | PR |
| Analyte | | | | | | |
| EPA Method 8260 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1,1-Trichloroethane (TCA) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1,2,2-Tetrachloroethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1,2-Trichloroethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1-Dichloroethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1-Dichloroethene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1-Dichloropropene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,2,3-Trichlorobenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,2,3-Trichloropropane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,2,4-Trichlorobenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,2,4-Trimethylbenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,2-Dibromoethane (EDB) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,2-Dichlorobenzene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,2-Dichloroethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,2-Dichloropropane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,3,5-Trimethylbenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,3-Dichlorobenzene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,3-Dichloropropane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,4-Dichlorobenzene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 2,2-Dichloropropane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 2-Butanone (MEK) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) |
| 2-Chlorotoluene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 2-Hexanone | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) |
| 4-Chlorotoluene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 4-Isopropyltoluene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 4-Methyl-2-pentanone (MIBK) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) |
| Acetone | ND(50.00) | ND(50.00) | ND(50.00) | ND(50.00) | ND(50.00) | ND(50.00) |
| Benzene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Bromobenzene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Bromochloromethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Bromodichloromethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Bromoform | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Bromomethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Carbon Disulfide | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Carbon Tetrachloride | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Chlorobenzene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Chloroethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Chloroform | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Chloromethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| cis-1,2-Dichloroethene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| cis-1,3-Dichloropropene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Dibromochloromethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Dibromomethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Dichlorodifluoromethane (CFC 12) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Ethylbenzene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Hexachlorobutadiene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| Isopropylbenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| Methylene Chloride | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) |
| n-Butylbenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| n-Propylbenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| Naphthalene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| sec-Butylbenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| Styrene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| tert-Butylbenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| Tetrachloroethene (PCE) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Toluene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Total Xylenes | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |

# 1993 OU1, PSE2 Soil Data

| Sample Number | 93FW0533SL | 93FW0534SL | 93FW0535SL | 93FW0536SL | 93FW0538SL | 93FW0539SL |
|---|---|---|---|---|---|---|
| Lab Code | K4019-8 | K4019-9 | K4019-10 | K4019-11 | K4019-12 | K4019-13 |
| Date | 7/8/93 | 7/8/93 | 7/8/93 | 7/8/93 | 7/8/93 | 7/8/93 |
| Location | AP-5972 | AP-5972 | AP-5973 | AP-5973 | AP-5973 | AP-5973 |
| Depth | 2 - 3.5 | 5 - 6.5 | 5 - 6.5 | 10 - 11.5 | 10 - 11.5 | 15 - 16.5 |
| Type | PR | PR | PR | PR | QC | PR |
| Analyte | | | | | | |
| trans-1,2-Dichloroethene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| trans-1,3-Dichloropropene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Trichloroethene (TCE) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Trichlorofluoromethane (CFC 11) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Vinyl Chloride | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |

# 1993 OU1, PSE2 Soil Data

| Sample Number | 93FW0540SL | 93FW0541SL | 93FW0542SL | 93FW0543SL | 93FW0544SL | 93FW0545SL |
|---|---|---|---|---|---|---|
| Lab Code | K4066-6 | K4066-7 | K4066-8 | K4066-9 | K4066-10 | K4066-11 |
| Date | 7/9/93 | 7/9/93 | 7/9/93 | 7/9/93 | 7/9/93 | 7/9/93 |
| Location | AP-5974 | AP-5974 | AP-5974 | AP-5975 | AP-5975 | AP-5975 |
| Depth | 5 - 6.5 | 10 - 11.5 | 15 - 16.5 | 5 - 6.5 | 10 - 11.5 | 15 - 16.5 |
| Type | PR | PR | PR | PR | PR | PR |
| Analyte | | | | | | |
| EPA Method 8260 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND(5.00) | ND(30.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1,1-Trichloroethane (TCA) | ND(5.00) | ND(30.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1,2,2-Tetrachloroethane | ND(5.00) | ND(30.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1,2-Trichloroethane | ND(5.00) | ND(30.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1-Dichloroethane | ND(5.00) | ND(30.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1-Dichloroethene | ND(5.00) | ND(30.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1-Dichloropropene | ND(5.00) | ND(30.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,2,3-Trichlorobenzene | ND(20.00) | ND | ND | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,2,3-Trichloropropane | ND(5.00) | ND(30.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,2,4-Trichlorobenzene | ND(20.00) | ND | ND | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,2,4-Trimethylbenzene | ND(20.00) | ND | 30000.00 | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND(20.00) | ND | ND | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,2-Dibromoethane (EDB) | ND(20.00) | ND | ND | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,2-Dichlorobenzene | ND(5.00) | ND(30.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,2-Dichloroethane | ND(5.00) | ND(30.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,2-Dichloropropane | ND(5.00) | ND(30.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,3,5-Trimethylbenzene | ND(20.00) | ND | 11000.00 | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,3-Dichlorobenzene | ND(5.00) | ND(30.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,3-Dichloropropane | ND(5.00) | ND(30.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,4-Dichlorobenzene | ND(5.00) | ND(30.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| 2,2-Dichloropropane | ND(5.00) | ND(30.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| 2-Butanone (MEK) | ND(10.00) | ND(60.00) | ND | ND(10.00) | ND(10.00) | ND(10.00) |
| 2-Chlorotoluene | ND(20.00) | ND | ND | ND(20.00) | ND(20.00) | ND(20.00) |
| 2-Hexanone | ND(10.00) | ND(60.00) | ND | ND(10.00) | ND(10.00) | ND(10.00) |
| 4-Chlorotoluene | ND(20.00) | ND | ND | ND(20.00) | ND(20.00) | ND(20.00) |
| 4-Isopropyltoluene | ND(20.00) | 570.00 | ND | ND(20.00) | ND(20.00) | ND(20.00) |
| 4-Methyl-2-pentanone (MIBK) | ND(10.00) | ND(60.00) | ND | ND(10.00) | ND(10.00) | ND(10.00) |
| Acetone | ND(50.00) | ND | ND | ND(50.00) | ND(50.00) | ND(50.00) |
| Benzene | ND(5.00) | 230.00 | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| Bromobenzene | ND(5.00) | ND(30.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| Bromochloromethane | ND(5.00) | ND(30.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| Bromodichloromethane | ND(5.00) | ND(30.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| Bromoform | ND(5.00) | ND(30.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| Bromomethane | ND(5.00) | ND(30.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| Carbon Disulfide | ND(5.00) | ND(30.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| Carbon Tetrachloride | ND(5.00) | ND(30.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| Chlorobenzene | ND(5.00) | ND(30.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| Chloroethane | ND(5.00) | ND(30.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| Chloroform | ND(5.00) | ND(30.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| Chloromethane | ND(5.00) | ND(30.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| cis-1,2-Dichloroethene | ND(5.00) | ND(30.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| cis-1,3-Dichloropropene | ND(5.00) | ND(30.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| Dibromochloromethane | ND(5.00) | ND(30.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| Dibromomethane | ND(5.00) | ND(30.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| Dichlorodifluoromethane (CFC 12) | ND(5.00) | ND(30.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| Ethylbenzene | ND(5.00) | 110.00 | 4700.00 | ND(5.00) | ND(5.00) | ND(5.00) |
| Hexachlorobutadiene | ND(20.00) | ND | ND | ND(20.00) | ND(20.00) | ND(20.00) |
| Isopropylbenzene | ND(20.00) | ND | ND | ND(20.00) | ND(20.00) | ND(20.00) |
| Methylene Chloride | ND(10.00) | ND(60.00) | ND | ND(10.00) | ND(10.00) | ND(10.00) |
| n-Butylbenzene | ND(20.00) | ND | ND | ND(20.00) | ND(20.00) | ND(20.00) |
| n-Propylbenzene | ND(20.00) | ND | ND | ND(20.00) | ND(20.00) | ND(20.00) |
| Naphthalene | ND(20.00) | 330.00 | ND | ND(20.00) | ND(20.00) | ND(20.00) |
| sec-Butylbenzene | ND(20.00) | 150.00 | ND | ND(20.00) | ND(20.00) | ND(20.00) |
| Styrene | ND(5.00) | ND(30.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| tert-Butylbenzene | ND(20.00) | ND | ND | ND(20.00) | ND(20.00) | ND(20.00) |
| Tetrachloroethene (PCE) | ND(5.00) | ND(30.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| Toluene | ND(5.00) | ND(30.00) | 13000.00 | ND(5.00) | ND(5.00) | ND(5.00) |
| Total Xylenes | ND(5.00) | ND(30.00) | 43000.00 | ND(5.00) | ND(5.00) | ND(5.00) |

# 1993 OU1, PSE2 Soil Data

| Sample Number | 93FW0540SL | 93FW0541SL | 93FW0542SL | 93FW0543SL | 93FW0544SL | 93FW0545SL |
|---|---|---|---|---|---|---|
| Lab Code | K4066-6 | K4066-7 | K4066-8 | K4066-9 | K4066-10 | K4066-11 |
| Date | 7/9/93 | 7/9/93 | 7/9/93 | 7/9/93 | 7/9/93 | 7/9/93 |
| Location | AP-5974 | AP-5974 | AP-5974 | AP-5975 | AP-5975 | AP-5975 |
| Depth | 5 - 6.5 | 10 - 11.5 | 15 - 16.5 | 5 - 6.5 | 10 - 11.5 | 15 - 16.5 |
| Type | PR | PR | PR | PR | PR | PR |
| Analyte | | | | | | |
| trans-1,2-Dichloroethene | ND(5.00) | ND(30.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| trans-1,3-Dichloropropene | ND(5.00) | ND(30.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| Trichloroethene (TCE) | ND(5.00) | ND(30.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| Trichlorofluoromethane (CFC 11) | ND(5.00) | ND(30.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |
| Vinyl Chloride | ND(5.00) | ND(30.00) | ND | ND(5.00) | ND(5.00) | ND(5.00) |

# 1993 OU1, PSE2 Soil Data

| Sample Number | 93FW0546SL | 93FW0547SL | 93FW0548SL | 93FW0549SL | 93FW0550SL | 93FW0551SL |
|---|---|---|---|---|---|---|
| Lab Code | K4313-1 | K4313-2 | K4313-3 | K4313-4 | K4313-5 | K4313-6 |
| Date | 7/22/93 | 7/22/93 | 7/22/93 | 7/22/93 | 7/22/93 | 7/22/93 |
| Location | 1599-21SS | 1599-22SS | 1599-23SS | 1599-24SS | 1599-25SS | 1599-26SS |
| Depth | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 |
| Type | PR | PR | PR | PR | PR | PR |
| Analyte | | | | | | |
| EPA Method 8260 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1,1-Trichloroethane (TCA) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1,2,2-Tetrachloroethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1,2-Trichloroethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1-Dichloroethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1-Dichloroethene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1-Dichloropropene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,2,3-Trichlorobenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,2,3-Trichloropropane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,2,4-Trichlorobenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,2,4-Trimethylbenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,2-Dibromoethane (EDB) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,2-Dichlorobenzene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,2-Dichloroethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,2-Dichloropropane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,3,5-Trimethylbenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,3-Dichlorobenzene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,3-Dichloropropane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,4-Dichlorobenzene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 2,2-Dichloropropane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 2-Butanone (MEK) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) |
| 2-Chlorotoluene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 2-Hexanone | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) |
| 4-Chlorotoluene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 4-Isopropyltoluene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 4-Methyl-2-pentanone (MIBK) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) |
| Acetone | ND(50.00) | ND(50.00) | ND(50.00) | ND(50.00) | ND(50.00) | ND(50.00) |
| Benzene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Bromobenzene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Bromochloromethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Bromodichloromethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Bromoform | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Bromomethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Carbon Disulfide | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Carbon Tetrachloride | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Chlorobenzene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Chloroethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Chloroform | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Chloromethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| cis-1,2-Dichloroethene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| cis-1,3-Dichloropropene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Dibromochloromethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Dibromomethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Dichlorodifluoromethane (CFC 12) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Ethylbenzene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Hexachlorobutadiene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| Isopropylbenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| Methylene Chloride | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) |
| n-Butylbenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| n-Propylbenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| Naphthalene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| sec-Butylbenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| Styrene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| tert-Butylbenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| Tetrachloroethene (PCE) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Toluene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Total Xylenes | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |

# 1993 OU1, PSE2 Soil Data

| Sample Number | 93FW0546SL | 93FW0547SL | 93FW0548SL | 93FW0549SL | 93FW0550SL | 93FW0551SL |
|---|---|---|---|---|---|---|
| Lab Code | K4313-1 | K4313-2 | K4313-3 | K4313-4 | K4313-5 | K4313-6 |
| Date | 7/22/93 | 7/22/93 | 7/22/93 | 7/22/93 | 7/22/93 | 7/22/93 |
| Location | 1599-21SS | 1599-22SS | 1599-23SS | 1599-24SS | 1599-25SS | 1599-26SS |
| Depth | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 |
| Type | PR | PR | PR | PR | PR | PR |
| Analyte | | | | | | |
| trans-1,2-Dichloroethene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| trans-1,3-Dichloropropene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Trichloroethene (TCE) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Trichlorofluoromethane (CFC 11) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Vinyl Chloride | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |

# 1993 OU1, PSE2 Soil Data

| Sample Number | 93FW0552SL | 93FW0553SL | 93FW0554SL | 93FW0555SL | 93FW0701SL | 93FW0702SL |
|---|---|---|---|---|---|---|
| Lab Code | K4313-7 | K4313-8 | K4313-9 | K4313-10 | K3946-1 | K3946-2 |
| Date | 7/22/93 | 7/22/93 | 7/22/93 | 7/22/93 | 7/6/93 | 7/6/93 |
| Location | 1599-27SS | 1599-28SS | 1599-29SS | 1599-30SS | AP-5977 | AP-5977 |
| Depth | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1.5 | 5 - 6.5 |
| Type | PR | PR | PR | PR | PR | PR |
| Analyte | | | | | | |
| EPA Method 8260 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1,1-Trichloroethane (TCA) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1,2,2-Tetrachloroethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1,2-Trichloroethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1-Dichloroethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1-Dichloroethene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1-Dichloropropene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,2,3-Trichlorobenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,2,3-Trichloropropane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,2,4-Trichlorobenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,2,4-Trimethylbenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,2-Dibromoethane (EDB) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,2-Dichlorobenzene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,2-Dichloroethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,2-Dichloropropane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,3,5-Trimethylbenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,3-Dichlorobenzene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,3-Dichloropropane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,4-Dichlorobenzene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 2,2-Dichloropropane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 2-Butanone (MEK) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) |
| 2-Chlorotoluene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 2-Hexanone | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) |
| 4-Chlorotoluene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 4-Isopropyltoluene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 4-Methyl-2-pentanone (MIBK) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) |
| Acetone | ND(50.00) | ND(50.00) | ND(50.00) | ND(50.00) | ND(50.00) | ND(50.00) |
| Benzene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Bromobenzene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Bromochloromethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Bromodichloromethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Bromoform | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Bromomethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Carbon Disulfide | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Carbon Tetrachloride | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Chlorobenzene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Chloroethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Chloroform | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Chloromethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| cis-1,2-Dichloroethene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| cis-1,3-Dichloropropene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Dibromochloromethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Dibromomethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Dichlorodifluoromethane (CFC 12) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Ethylbenzene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Hexachlorobutadiene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| Isopropylbenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| Methylene Chloride | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) |
| n-Butylbenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| n-Propylbenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| Naphthalene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | 23.00 |
| sec-Butylbenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| Styrene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| tert-Butylbenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| Tetrachloroethene (PCE) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Toluene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Total Xylenes | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |

# 1993 OU1, PSE2 Soil Data

| Sample Number | 93FW0552SL | 93FW0553SL | 93FW0554SL | 93FW0555SL | 93FW0701SL | 93FW0702SL |
|---|---|---|---|---|---|---|
| Lab Code | K4313-7 | K4313-8 | K4313-9 | K4313-10 | K3946-1 | K3946-2 |
| Date | 7/22/93 | 7/22/93 | 7/22/93 | 7/22/93 | 7/6/93 | 7/6/93 |
| Location | 1599-27SS | 1599-28SS | 1599-29SS | 1599-30SS | AP-5977 | AP-5977 |
| Depth | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1 | 0 - 1.5 | 5 - 6.5 |
| Type | PR | PR | PR | PR | PR | PR |
| Analyte | | | | | | |
| trans-1,2-Dichloroethene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| trans-1,3-Dichloropropene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Trichloroethene (TCE) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Trichlorofluoromethane (CFC 11) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Vinyl Chloride | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |

# 1993 OU1, PSE2 Soil Data

| Sample Number | 93FW0704SL | 93FW0705SL | 93FW0706SL | 93FW0708SL | 93FW0709SL | 93FW0710SL |
|---|---|---|---|---|---|---|
| Lab Code | K3946-3 | K3946-4 | K3946-5 | K3946-6 | K3946-7 | K3946-8 |
| Date | 7/6/93 | 7/6/93 | 7/6/93 | 7/6/93 | 7/6/93 | 7/6/93 |
| Location | AP-5977 | AP-5977 | AP-5977 | AP-5978 | AP-5978 | AP-5978 |
| Depth | 5 - 6.5 | 10 - 11.5 | 15 - 16.5 | 0 - 1.5 | 5 - 6.5 | 10 - 11.5 |
| Type | QC | PR | PR | PR | PR | PR |
| Analyte | | | | | | |
| EPA Method 8260 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1,1-Trichloroethane (TCA) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1,2,2-Tetrachloroethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1,2-Trichloroethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1-Dichloroethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1-Dichloroethene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1-Dichloropropene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,2,3-Trichlorobenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,2,3-Trichloropropane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,2,4-Trichlorobenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,2,4-Trimethylbenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,2-Dibromoethane (EDB) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,2-Dichlorobenzene | ND(5.00) | ND(5.00) | ND(5.00) | 5.00 | ND(5.00) | ND(5.00) |
| 1,2-Dichloroethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,2-Dichloropropane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,3,5-Trimethylbenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,3-Dichlorobenzene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,3-Dichloropropane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,4-Dichlorobenzene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 2,2-Dichloropropane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 2-Butanone (MEK) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) |
| 2-Chlorotoluene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 2-Hexanone | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) |
| 4-Chlorotoluene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 4-Isopropyltoluene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 4-Methyl-2-pentanone (MIBK) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) |
| Acetone | ND(50.00) | ND(50.00) | 62.00 | ND(50.00) | ND(50.00) | ND(50.00) |
| Benzene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Bromobenzene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Bromochloromethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Bromodichloromethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Bromoform | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Bromomethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Carbon Disulfide | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Carbon Tetrachloride | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Chlorobenzene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Chloroethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Chloroform | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Chloromethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| cis-1,2-Dichloroethene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| cis-1,3-Dichloropropene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Dibromochloromethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Dibromomethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Dichlorodifluoromethane (CFC 12) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Ethylbenzene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Hexachlorobutadiene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| Isopropylbenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| Methylene Chloride | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) |
| n-Butylbenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| n-Propylbenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| Naphthalene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| sec-Butylbenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| Styrene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| tert-Butylbenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| Tetrachloroethene (PCE) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Toluene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Total Xylenes | ND(5.00) | ND(5.00) | ND(5.00) | 6.00 | ND(5.00) | ND(5.00) |

# 1993 OU1, PSE2 Soil Data

| Sample Number | 93FW0704SL | 93FW0705SL | 93FW0706SL | 93FW0708SL | 93FW0709SL | 93FW0710SL |
|---|---|---|---|---|---|---|
| Lab Code | K3946-3 | K3946-4 | K3946-5 | K3946-6 | K3946-7 | K3946-8 |
| Date | 7/6/93 | 7/6/93 | 7/6/93 | 7/6/93 | 7/6/93 | 7/6/93 |
| Location | AP-5977 | AP-5977 | AP-5977 | AP-5978 | AP-5978 | AP-5978 |
| Depth | 5 - 6.5 | 10 - 11.5 | 15 - 16.5 | 0 - 1.5 | 5 - 6.5 | 10 - 11.5 |
| Type | QC | PR | PR | PR | PR | PR |
| Analyte | | | | | | |
| trans-1,2-Dichloroethene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| trans-1,3-Dichloropropene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Trichloroethene (TCE) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Trichlorofluoromethane (CFC 11) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Vinyl Chloride | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |

# 1993 OU1, PSE2 Soil Data

| Sample Number | 93FW0711SL | 93FW0712SL | 93FW0713SL | 93FW0714SL | 93FW0801SL | 93FW0802SL |
|---|---|---|---|---|---|---|
| Lab Code | K3946-9 | K3946-10 | K3946-11 | K3946-12 | K3978-1 | K3978-2 |
| Date | 7/6/93 | 7/6/93 | 7/6/93 | 7/6/93 | 7/7/93 | 7/7/93 |
| Location | AP-5978 | AP-5979 | AP-5979 | AP-5979 | AP-5980 | AP-5980 |
| Depth | 15 - 16.5 | 5 - 6.5 | 10 - 11.5 | 15 - 16.5 | 0 - 1.5 | 5 - 6.5 |
| Type | PR | PR | PR | PR | PR | PR |
| Analyte | | | | | | |
| EPA Method 8260 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1,1-Trichloroethane (TCA) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1,2,2-Tetrachloroethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1,2-Trichloroethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1-Dichloroethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1-Dichloroethene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1-Dichloropropene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,2,3-Trichlorobenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,2,3-Trichloropropane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,2,4-Trichlorobenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,2,4-Trimethylbenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,2-Dibromoethane (EDB) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,2-Dichlorobenzene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,2-Dichloroethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,2-Dichloropropane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,3,5-Trimethylbenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,3-Dichlorobenzene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,3-Dichloropropane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,4-Dichlorobenzene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 2,2-Dichloropropane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 2-Butanone (MEK) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) |
| 2-Chlorotoluene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 2-Hexanone | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) |
| 4-Chlorotoluene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 4-Isopropyltoluene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 4-Methyl-2-pentanone (MIBK) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) |
| Acetone | ND(50.00) | ND(50.00) | ND(50.00) | ND(50.00) | ND(50.00) | ND(50.00) |
| Benzene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Bromobenzene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Bromochloromethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Bromodichloromethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Bromoform | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Bromomethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Carbon Disulfide | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Carbon Tetrachloride | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Chlorobenzene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Chloroethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Chloroform | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Chloromethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| cis-1,2-Dichloroethene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | 9.00 | ND(5.00) |
| cis-1,3-Dichloropropene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Dibromochloromethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Dibromomethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Dichlorodifluoromethane (CFC 12) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Ethylbenzene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Hexachlorobutadiene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| Isopropylbenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| Methylene Chloride | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) |
| n-Butylbenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| n-Propylbenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| Naphthalene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| sec-Butylbenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| Styrene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| tert-Butylbenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| Tetrachloroethene (PCE) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Toluene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Total Xylenes | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |

# 1993 OU1, PSE2 Soil Data

| Sample Number | 93FW0711SL | 93FW0712SL | 93FW0713SL | 93FW0714SL | 93FW0801SL | 93FW0802SL |
|---|---|---|---|---|---|---|
| Lab Code | K3946-9 | K3946-10 | K3946-11 | K3946-12 | K3978-1 | K3978-2 |
| Date | 7/6/93 | 7/6/93 | 7/6/93 | 7/6/93 | 7/7/93 | 7/7/93 |
| Location | AP-5978 | AP-5979 | AP-5979 | AP-5979 | AP-5980 | AP-5980 |
| Depth | 15 - 16.5 | 5 - 6.5 | 10 - 11.5 | 15 - 16.5 | 0 - 1.5 | 5 - 6.5 |
| Type | PR | PR | PR | PR | PR | PR |
| Analyte | | | | | | |
| trans-1,2-Dichloroethene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| trans-1,3-Dichloropropene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Trichloroethene (TCE) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | 130.00 | ND(5.00) |
| Trichlorofluoromethane (CFC 11) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Vinyl Chloride | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |

# 1993 OU1, PSE2 Soil Data

| Sample Number | 93FW0804SL | 93FW0805SL | 93FW0806SL | 93FW0807SL | 93FW0808SL | 93FW0809SL |
|---|---|---|---|---|---|---|
| Lab Code | K3978-3 | K3978-4 | K3978-5 | K3978-6 | K3978-7 | K3978-8 |
| Date | 7/7/93 | 7/7/93 | 7/7/93 | 7/7/93 | 7/7/93 | 7/7/93 |
| Location | AP-5980 | AP-5980 | AP-5980 | AP-5981 | AP-5981 | AP-5981 |
| Depth | 5 - 6.5 | 10 - 11.5 | 15 - 16.5 | 0 - 1.5 | 5 - 6.5 | 10 - 11.5 |
| Type | QC | PR | PR | PR | PR | PR |
| Analyte | | | | | | |
| EPA Method 8260 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1,1-Trichloroethane (TCA) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1,2,2-Tetrachloroethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1,2-Trichloroethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1-Dichloroethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1-Dichloroethene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1-Dichloropropene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,2,3-Trichlorobenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,2,3-Trichloropropane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,2,4-Trichlorobenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,2,4-Trimethylbenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,2-Dibromoethane (EDB) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,2-Dichlorobenzene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,2-Dichloroethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,2-Dichloropropane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,3,5-Trimethylbenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,3-Dichlorobenzene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,3-Dichloropropane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,4-Dichlorobenzene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 2,2-Dichloropropane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 2-Butanone (MEK) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) |
| 2-Chlorotoluene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 2-Hexanone | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) |
| 4-Chlorotoluene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 4-Isopropyltoluene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 4-Methyl-2-pentanone (MIBK) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) |
| Acetone | ND(50.00) | ND(50.00) | ND(50.00) | ND(50.00) | ND(50.00) | ND(50.00) |
| Benzene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Bromobenzene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Bromochloromethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Bromodichloromethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Bromoform | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Bromomethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Carbon Disulfide | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Carbon Tetrachloride | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Chlorobenzene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Chloroethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Chloroform | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Chloromethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| cis-1,2-Dichloroethene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| cis-1,3-Dichloropropene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Dibromochloromethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Dibromomethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Dichlorodifluoromethane (CFC 12) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Ethylbenzene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Hexachlorobutadiene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| Isopropylbenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| Methylene Chloride | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) |
| n-Butylbenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| n-Propylbenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| Naphthalene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| sec-Butylbenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| Styrene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| tert-Butylbenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| Tetrachloroethene (PCE) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Toluene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Total Xylenes | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |

# 1993 OU1, PSE2 Soil Data

| Sample Number | 93FW0804SL | 93FW0805SL | 93FW0806SL | 93FW0807SL | 93FW0808SL | 93FW0809SL |
|---|---|---|---|---|---|---|
| Lab Code | K3978-3 | K3978-4 | K3978-5 | K3978-6 | K3978-7 | K3978-8 |
| Date | 7/7/93 | 7/7/93 | 7/7/93 | 7/7/93 | 7/7/93 | 7/7/93 |
| Location | AP-5980 | AP-5980 | AP-5980 | AP-5981 | AP-5981 | AP-5981 |
| Depth | 5 - 6.5 | 10 - 11.5 | 15 - 16.5 | 0 - 1.5 | 5 - 6.5 | 10 - 11.5 |
| Type | QC | PR | PR | PR | PR | PR |
| Analyte | | | | | | |
| trans-1,2-Dichloroethene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| trans-1,3-Dichloropropene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Trichloroethene (TCE) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Trichlorofluoromethane (CFC 11) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Vinyl Chloride | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |

# 1993 OU1, PSE2 Soil Data

| Sample Number | 93FW0810SL | 93FW0901SL | 93FW0902SL | 93FW0904SL | 93FW0905SL |
|---|---|---|---|---|---|
| Lab Code | K3978-9 | K4130-5 | K4130-6 | K4130-7 | K4130-8 |
| Date | 7/7/93 | 7/14/93 | 7/14/93 | 7/14/93 | 7/14/93 |
| Location | AP-5981 | AP-5982 | AP-5982 | AP-5982 | AP-5982 |
| Depth | 15 - 16.5 | 5 - 6.5 | 10 - 11.5 | 10 - 11.5 | 15 - 16.5 |
| Type | PR | PR | PR | QC | PR |
| Analyte | | | | | |
| EPA Method 8260 | | | | | |
| 1,1,1,2-Tetrachloroethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1,1-Trichloroethane (TCA) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1,2,2-Tetrachloroethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1,2-Trichloroethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1-Dichloroethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1-Dichloroethene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,1-Dichloropropene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,2,3-Trichlorobenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,2,3-Trichloropropane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,2,4-Trichlorobenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,2,4-Trimethylbenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,2-Dibromoethane (EDB) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,2-Dichlorobenzene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,2-Dichloroethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,2-Dichloropropane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,3,5-Trimethylbenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 1,3-Dichlorobenzene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,3-Dichloropropane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 1,4-Dichlorobenzene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 2,2-Dichloropropane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| 2-Butanone (MEK) | ND(10.00) | 29.00 | ND(10.00) | ND(10.00) | 34.00 |
| 2-Chlorotoluene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 2-Hexanone | ND(10.00) | 63.00 | ND(10.00) | ND(10.00) | 58.00 |
| 4-Chlorotoluene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 4-Isopropyltoluene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| 4-Methyl-2-pentanone (MIBK) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | 27.00 |
| Acetone | ND(50.00) | ND(50.00) | ND(50.00) | ND(50.00) | 74.00 |
| Benzene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Bromobenzene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Bromochloromethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Bromodichloromethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Bromoform | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Bromomethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Carbon Disulfide | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Carbon Tetrachloride | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Chlorobenzene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Chloroethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Chloroform | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Chloromethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| cis-1,2-Dichloroethene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| cis-1,3-Dichloropropene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Dibromochloromethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Dibromomethane | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Dichlorodifluoromethane (CFC 12) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Ethylbenzene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Hexachlorobutadiene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| Isopropylbenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| Methylene Chloride | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) | ND(10.00) |
| n-Butylbenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| n-Propylbenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| Naphthalene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| sec-Butylbenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| Styrene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| tert-Butylbenzene | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) | ND(20.00) |
| Tetrachloroethene (PCE) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Toluene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Total Xylenes | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |

# 1993 OU1, PSE2 Soil Data

| Sample Number | 93FW0810SL | 93FW0901SL | 93FW0902SL | 93FW0904SL | 93FW0905SL |
|---|---|---|---|---|---|
| Lab Code | K3978-9 | K4130-5 | K4130-6 | K4130-7 | K4130-8 |
| Date | 7/7/93 | 7/14/93 | 7/14/93 | 7/14/93 | 7/14/93 |
| Location | AP-5981 | AP-5982 | AP-5982 | AP-5982 | AP-5982 |
| Depth | 15 - 16.5 | 5 - 6.5 | 10 - 11.5 | 10 - 11.5 | 15 - 16.5 |
| Type | PR | PR | PR | QC | PR |
| Analyte | | | | | |
| trans-1,2-Dichloroethene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| trans-1,3-Dichloropropene | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Trichloroethene (TCE) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Trichlorofluoromethane (CFC 11) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |
| Vinyl Chloride | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) | ND(5.00) |

## 1994 North Airfield Groundwater Results

Source: HLA, February 1995 North Airfield Groundwater Investigation

# 1994 North Airfield Groundwater Results

| Sample ID | | 94FWN100WA | 94FWN101WA | 94FWN102WA |
|---|---|---|---|---|
| Date | | 9/17/94 | 9/17/94 | 9/17/94 |
| Time | | 1030 | 1200 | 1255 |
| Monitoring Well ID | | 106008 | 106007 | AP-6192 |
| Sample Type | Units | PR | PR | PR |
| 8015M | | | | |
| Gasoline Range Organics | mg/L | 0.49 | 0.48 | ND(0.05) |
| Gasoline Range Organics | µg/L (ppb) | NA | NA | NA |
| 8100M | | | | |
| Diesel Range Organics | µg/L (ppb) | NA | NA | NA |
| Diesel Range Organics | mg/L | 0.55 | 1.3 | 9.8 |
| 8260 | | | | |
| 1,1,1,2-Tetrachloroethane | ug/L | ND(1) | ND(1) | ND(1) |
| 1,1,1-Trichloroethane | ug/L | ND(1) | ND(1) | ND(1) |
| 1,1,2,2-Tetrachloroethane | ug/L | ND(1) | ND(1) | ND(1) |
| 1,1,2-Trichloroethane | ug/L | ND(1) | ND(1) | ND(1) |
| 1,1-Dichloroethane | ug/L | ND(1) | ND(1) | ND(1) |
| 1,1-Dichloroethene | ug/L | ND(1) | ND(1) | ND(1) |
| 1,1-Dichloropropene | ug/L | ND(1) | ND(1) | ND(1) |
| 1,2,3-Trichlorobenzene | ug/L | ND(1) | ND(1) | ND(1) |
| 1,2,3-Trichloropropane | ug/L | ND(1) | ND(1) | ND(1) |
| 1,2,4-Trichlorobenzene | ug/L | ND(1) | ND(1) | ND(1) |
| 1,2,4-Trimethylbenzene | ug/L | 16 | 46FC | ND(1) |
| 1,2-Dibromo-3-chloropropane | ug/L | ND(1) | ND(1) | ND(1) |
| 1,2-Dibromoethane | ug/L | ND(1) | ND(1) | ND(1) |
| 1,2-Dichlorobenzene | ug/L | ND(1) | ND(1) | ND(1) |
| 1,2-Dichloroethane | ug/L | ND(1) | ND(1) | ND(1) |
| 1,2-Dichloropropane | ug/L | ND(1) | ND(1) | ND(1) |
| 1,3,5-Trimethylbenzene | ug/L | 19 | 49FC | ND(1) |
| 1,3-Dichlorobenzene | ug/L | ND(1) | ND(1) | ND(1) |
| 1,3-Dichloropropane | ug/L | ND(1) | ND(1) | ND(1) |
| 1,4-Dichlorobenzene | ug/L | ND(1) | ND(1) | ND(1) |
| 2,2-Dichloropropane | ug/L | ND(1) | ND(1) | ND(1) |
| 2-Butanone | ug/L | ND(2) | ND(2) | ND(2) |
| 2-Chlorotoluene | ug/L | ND(1) | ND(1) | ND(1) |
| 4-Chlorotoluene | ug/L | ND(1) | ND(1) | ND(1) |
| Acetone | ug/L | ND(2) | ND(2) | 1.5 |
| Benzene | ug/L | 8.2 | ND(1) | ND(1) |
| Bromobenzene | ug/L | ND(1) | ND(1) | ND(1) |
| Bromochloromethane | ug/L | ND(1) | ND(1) | ND(1) |
| Bromodichloromethane | ug/L | ND(1) | ND(1) | ND(1) |
| Bromoform | ug/L | ND(1) | ND(1) | ND(1) |
| Bromomethane | ug/L | ND(1) | ND(1) | ND(1) |
| Carbon tetrachloride | ug/L | ND(1) | ND(1) | ND(1) |
| Chlorobenzene | ug/L | ND(1) | ND(1) | ND(1) |
| Chloroethane | ug/L | ND(1) | ND(1) | ND(1) |
| Chloroform | ug/L | ND(1) | ND(1) | ND(1) |
| Chloromethane | ug/L | ND(1) | ND(1) | ND(1) |
| Dibromochloromethane | ug/L | ND(1) | ND(1) | ND(1) |
| Dibromomethane | ug/L | ND(1) | ND(1) | ND(1) |
| Dichlorodifluoromethane | ug/L | ND(1) | 1.5 | ND(1) |
| Ethyl benzene | ug/L | 8 | 4.3 | ND(1) |
| Hexachlorobutadiene | ug/L | ND(1) | ND(1) | ND(1) |
| Isopropylbenzene | ug/L | 6.8 | 9.5 | ND(1) |
| Methylene chloride | ug/L | ND(1) | ND(1) | ND(1) |
| Naphthalene | ug/L | 11 | 16 | ND(1) |
| Styrene | ug/L | ND(1) | ND(1) | ND(1) |
| Tetrachloroethene | ug/L | ND(1) | ND(1) | ND(1) |
| Toluene | ug/L | 3.5 | ND(1) | ND(1) |
| Trichloroethene | ug/L | ND(1) | ND(1) | ND(1) |
| Trichlorofluoromethane | ug/L | 4.9 | 1.7 | ND(1) |
| Vinyl chloride | ug/L | ND(1) | ND(1) | ND(1) |
| cis-1,2-Dichloroethene | ug/L | ND(1) | ND(1) | ND(1) |
| cis-1,3-Dichloropropene | ug/L | ND(1) | ND(1) | ND(1) |
| m&p-Xylene | ug/L | 26 | 8.3 | ND(1) |
| n-Butylbenzene | ug/L | 5.3 | 10 | ND(1) |
| n-Propylbenzene | ug/L | 12 | 23 | ND(1) |
| o-Xylene | ug/L | 1.2 | ND(1) | ND(1) |
| p-Isopropyltoluene | ug/L | ND(1) | 12 | ND(1) |

# 1994 North Airfield Groundwater Results

| Sample ID | | 94FWN100WA | 94FWN101WA | 94FWN102WA |
|---|---|---|---|---|
| Date | | 9/17/94 | 9/17/94 | 9/17/94 |
| Time | | 1030 | 1200 | 1255 |
| Monitoring Well ID | | 106008 | 106007 | AP-6192 |
| Sample Type | Units | PR | PR | PR |
| sec-Butylbenzene | ug/L | 6.2 | 11 | ND(1) |
| tert-Butylbenzene | ug/L | ND(1) | ND(1) | ND(1) |
| trans-1,2-Dichloroethene | ug/L | ND(1) | ND(1) | ND(1) |
| trans-1,3-Dichloropropene | ug/L | ND(1) | ND(1) | ND(1) |
| 1,1,1,2-Tetrachloroethane | µg/L (ppb) | NA | NA | NA |
| 1,1,1-Trichloroethane (TCA) | µg/L (ppb) | NA | NA | NA |
| 1,1,2,2-Tetrachloroethane | µg/L (ppb) | NA | NA | NA |
| 1,1,2-Trichloroethane | µg/L (ppb) | NA | NA | NA |
| 1,1-Dichloroethane | µg/L (ppb) | NA | NA | NA |
| 1,1-Dichloroethene | µg/L (ppb) | NA | NA | NA |
| 1,1-Dichloropropene | µg/L (ppb) | NA | NA | NA |
| 1,2,3-Trichlorobenzene | µg/L (ppb) | NA | NA | NA |
| 1,2,3-Trichloropropane | µg/L (ppb) | NA | NA | NA |
| 1,2,4-Trichlorobenzene | µg/L (ppb) | NA | NA | NA |
| 1,2,4-Trimethylbenzene | µg/L (ppb) | NA | NA | NA |
| 1,2-Dibromo-3-chloropropane (DBCP) | µg/L (ppb) | NA | NA | NA |
| 1,2-Dibromoethane (EDB) | µg/L (ppb) | NA | NA | NA |
| 1,2-Dichlorobenzene | µg/L (ppb) | NA | NA | NA |
| 1,2-Dichloroethane | µg/L (ppb) | NA | NA | NA |
| 1,2-Dichloropropane | µg/L (ppb) | NA | NA | NA |
| 1,3,5-Trimethylbenzene | µg/L (ppb) | NA | NA | NA |
| 1,3-Dichlorobenzene | µg/L (ppb) | NA | NA | NA |
| 1,3-Dichloropropane | µg/L (ppb) | NA | NA | NA |
| 1,4-Dichlorobenzene | µg/L (ppb) | NA | NA | NA |
| 2,2-Dichloropropane | µg/L (ppb) | NA | NA | NA |
| 2-Butanone (MEK) | µg/L (ppb) | NA | NA | NA |
| 2-Chlorotoluene | µg/L (ppb) | NA | NA | NA |
| 2-Hexanone | µg/L (ppb) | NA | NA | NA |
| 4-Chlorotoluene | µg/L (ppb) | NA | NA | NA |
| 4-Isopropyltoluene | µg/L (ppb) | NA | NA | NA |
| 4-Methyl-2-pentanone (MIBK) | µg/L (ppb) | NA | NA | NA |
| Acetone | µg/L (ppb) | NA | NA | NA |
| Benzene | µg/L (ppb) | NA | NA | NA |
| Bromobenzene | µg/L (ppb) | NA | NA | NA |
| Bromochloromethane | µg/L (ppb) | NA | NA | NA |
| Bromodichloromethane | µg/L (ppb) | NA | NA | NA |
| Bromoform | µg/L (ppb) | NA | NA | NA |
| Bromomethane | µg/L (ppb) | NA | NA | NA |
| Carbon Disulfide | µg/L (ppb) | NA | NA | NA |
| Carbon Tetrachloride | µg/L (ppb) | NA | NA | NA |
| Chlorobenzene | µg/L (ppb) | NA | NA | NA |
| Chloroethane | µg/L (ppb) | NA | NA | NA |
| Chloroform | µg/L (ppb) | NA | NA | NA |
| Chloromethane | µg/L (ppb) | NA | NA | NA |
| Dibromochloromethane | µg/L (ppb) | NA | NA | NA |
| Dibromomethane | µg/L (ppb) | NA | NA | NA |
| Dichlorodifluoromethane (CFC 12) | µg/L (ppb) | NA | NA | NA |
| Ethylbenzene | µg/L (ppb) | NA | NA | NA |
| Hexachlorobutadiene | µg/L (ppb) | NA | NA | NA |
| Isopropylbenzene | µg/L (ppb) | NA | NA | NA |
| Methylene Chloride | µg/L (ppb) | NA | NA | NA |
| Naphthalene | µg/L (ppb) | NA | NA | NA |
| Styrene | µg/L (ppb) | NA | NA | NA |
| Tetrachloroethene (PCE) | µg/L (ppb) | NA | NA | NA |
| Toluene | µg/L (ppb) | NA | NA | NA |
| Total Xylenes | µg/L (ppb) | NA | NA | NA |
| Trichloroethene (TCE) | µg/L (ppb) | NA | NA | NA |
| Trichlorofluoromethane (CFC 11) | µg/L (ppb) | NA | NA | NA |
| Vinyl Chloride | µg/L (ppb) | NA | NA | NA |
| cis-1,2-Dichloroethene | µg/L (ppb) | NA | NA | NA |
| cis-1,3-Dichloropropene | µg/L (ppb) | NA | NA | NA |
| n-Butylbenzene | µg/L (ppb) | NA | NA | NA |
| n-Propylbenzene | µg/L (ppb) | NA | NA | NA |
| sec-Butylbenzene | µg/L (ppb) | NA | NA | NA |

# 1994 North Airfield Groundwater Results

| Sample ID | | 94FWN100WA | 94FWN101WA | 94FWN102WA |
|---|---|---|---|---|
| Date | | 9/17/94 | 9/17/94 | 9/17/94 |
| Time | | 1030 | 1200 | 1255 |
| Monitoring Well ID | | 106008 | 106007 | AP-6192 |
| Sample Type | Units | PR | PR | PR |
| tert-Butylbenzene | µg/L (ppb) | NA | NA | NA |
| trans-1,2-Dichloroethene | µg/L (ppb) | NA | NA | NA |
| trans-1,3-Dichloropropene | µg/L (ppb) | NA | NA | NA |
| 7421 | | | | |
| Lead (GFAA) | mg/L | NA | NA | NA |
| Other | | | | |
| Total Kjeldahl Nitrogen (351.2) | mg/L | 0.3* | 0.3 | 0.2 |
| Total Organic Carbon (415.1) | mg/L | 2.7 | 4.1 | 2.1 |
| Nitrate, as N (353.1-354) | mg/L | 0.04 | ND(0.03) | 0.49 |
| Nitrate-Nitrite, as N (353.1) | mg/L | NA | NA | NA |
| Oil Degrading Bacteria (Sheen Scr.) | MPN/mL | 5 | 2 | 5 |
| Phosphorous, Total (365.2) | mg/L | 0.01 | 0.042 | 0.01U |
| Heterotrophic Plate (SM179215D) | col/mL | 6 | 15 | 25 |
| Ammonia, as N (non-distilled) (350.1) | mg/L | 0.13 | 0.15 | 0.08 |

# 1994 North Airfield Groundwater Results

| Sample ID | 94FWN103WA | 94FWN104WA | 94FWN105WA | 94FWN106WA |
|---|---|---|---|---|
| Date | 9/17/94 | 9/17/94 | 9/18/94 | 9/18/94 |
| Time | 1445 | 1530 | 1000 | 1005 |
| Monitoring Well ID | 106009 | 106005 | AP-6186 | AP-6186 |
| Sample Type | PR | PR | QA-rinsate | QC-rinsate |
| 8015M | | | | |
| Gasoline Range Organics | 0.17 | 0.83 | NA | ND(0.05) |
| Gasoline Range Organics | NA | NA | NA | NA |
| 8100M | | | | |
| Diesel Range Organics | NA | NA | NA | NA |
| Diesel Range Organics | 0.34 | 2 | NA | ND(0.1) |
| 8260 | | | | |
| 1,1,1,2-Tetrachloroethane | ND(1) | ND(1) | | ND(1) |
| 1,1,1-Trichloroethane | ND(1) | 2 | | ND(1) |
| 1,1,2,2-Tetrachloroethane | ND(1) | ND(1) | | ND(1) |
| 1,1,2-Trichloroethane | ND(1) | ND(1) | | ND(1) |
| 1,1-Dichloroethane | ND(1) | ND(1) | | ND(1) |
| 1,1-Dichloroethene | ND(1) | ND(1) | | ND(1) |
| 1,1-Dichloropropene | ND(1) | ND(1) | | ND(1) |
| 1,2,3-Trichlorobenzene | ND(1) | ND(1) | | ND(1) |
| 1,2,3-Trichloropropane | ND(1) | ND(1) | | ND(1) |
| 1,2,4-Trichlorobenzene | 2.7 | ND(1) | | ND(1) |
| 1,2,4-Trimethylbenzene | ND(1) | 110FC | | ND(1) |
| 1,2-Dibromo-3-chloropropane | ND(1) | ND(1) | | ND(1) |
| 1,2-Dibromoethane | ND(1) | ND(1) | | ND(1) |
| 1,2-Dichlorobenzene | ND(1) | ND(1) | | ND(1) |
| 1,2-Dichloroethane | ND(1) | ND(1) | | ND(1) |
| 1,2-Dichloropropane | ND(1) | ND(1) | | ND(1) |
| 1,3,5-Trimethylbenzene | ND(1) | 15 | | ND(1) |
| 1,3-Dichlorobenzene | ND(1) | ND(1) | | 1.7 |
| 1,3-Dichloropropane | ND(1) | ND(1) | | ND(1) |
| 1,4-Dichlorobenzene | ND(1) | ND(1) | | ND(1) |
| 2,2-Dichloropropane | ND(1) | ND(1) | | ND(1) |
| 2-Butanone | ND(2) | ND(2) | | ND(2) |
| 2-Chlorotoluene | ND(1) | ND(1) | | ND(1) |
| 4-Chlorotoluene | ND(1) | ND(1) | | ND(1) |
| Acetone | ND(2) | ND(2) | | ND(2) |
| Benzene | 9.8 | ND(1) | | ND(1) |
| Bromobenzene | ND(1) | ND(1) | | ND(1) |
| Bromochloromethane | ND(1) | ND(1) | | ND(1) |
| Bromodichloromethane | ND(1) | ND(1) | | ND(1) |
| Bromoform | ND(1) | ND(1) | | ND(1) |
| Bromomethane | ND(1) | ND(1) | | ND(1) |
| Carbon tetrachloride | ND(1) | ND(1) | | ND(1) |
| Chlorobenzene | ND(1) | ND(1) | | ND(1) |
| Chloroethane | ND(1) | ND(1) | | ND(1) |
| Chloroform | ND(1) | ND(1) | | ND(1) |
| Chloromethane | ND(1) | ND(1) | | ND(1) |
| Dibromochloromethane | ND(1) | ND(1) | | ND(1) |
| Dibromomethane | ND(1) | ND(1) | | ND(1) |
| Dichlorodifluoromethane | ND(1) | ND(1) | | ND(1) |
| Ethyl benzene | 1.2 | 1.6 | | ND(1) |
| Hexachlorobutadiene | ND(1) | ND(1) | | ND(1) |
| Isopropylbenzene | 3.4 | 8.8 | | ND(1) |
| Methylene chloride | ND(1) | ND(1) | | ND(1) |
| Naphthalene | 2 | 5.7 | | ND(1) |
| Styrene | ND(1) | ND(1) | | ND(1) |
| Tetrachloroethene | ND(1) | ND(1) | | ND(1) |
| Toluene | ND(1) | ND(1) | | ND(1) |
| Trichloroethene | ND(1) | 430FF | | ND(1) |
| Trichlorofluoromethane | 3.1 | 1.3 | | ND(1) |
| Vinyl chloride | ND(1) | ND(1) | | ND(1) |
| cis-1,2-Dichloroethene | ND(1) | 52FC | | ND(1) |
| cis-1,3-Dichloropropene | ND(1) | ND(1) | | ND(1) |
| m&p-Xylene | 1.1 | 3.3 | | ND(1) |
| n-Butylbenzene | ND(1) | ND(1) | | ND(1) |
| n-Propylbenzene | ND(1) | 12 | | ND(1) |
| o-Xylene | 1.2 | 1 | | ND(1) |
| p-Isopropyltoluene | ND(1) | 12 | | ND(1) |

# 1994 North Airfield Groundwater Results

| Sample ID | 94FWN103WA | 94FWN104WA | 94FWN105WA | 94FWN106WA |
|---|---|---|---|---|
| Date | 9/17/94 | 9/17/94 | 9/18/94 | 9/18/94 |
| Time | 1445 | 1530 | 1000 | 1005 |
| Monitoring Well ID | 106009 | 106005 | AP-6186 | AP-6186 |
| Sample Type | PR | PR | QA-rinsate | QC-rinsate |
| sec-Butylbenzene | 4.4 | 9.1 | | ND(1) |
| tert-Butylbenzene | ND(1) | ND(1) | | ND(1) |
| trans-1,2-Dichloroethene | ND(1) | ND(1) | | ND(1) |
| trans-1,3-Dichloropropene | ND(1) | ND(1) | | ND(1) |
| 1,1,1,2-Tetrachloroethane | NA | NA | NA | NA |
| 1,1,1-Trichloroethane (TCA) | NA | NA | NA | NA |
| 1,1,2,2-Tetrachloroethane | NA | NA | NA | NA |
| 1,1,2-Trichloroethane | NA | NA | NA | NA |
| 1,1-Dichloroethane | NA | NA | NA | NA |
| 1,1-Dichloroethene | NA | NA | NA | NA |
| 1,1-Dichloropropene | NA | NA | NA | NA |
| 1,2,3-Trichlorobenzene | NA | NA | NA | NA |
| 1,2,3-Trichloropropane | NA | NA | NA | NA |
| 1,2,4-Trichlorobenzene | NA | NA | NA | NA |
| 1,2,4-Trimethylbenzene | NA | NA | NA | NA |
| 1,2-Dibromo-3-chloropropane (DBCP) | NA | NA | NA | NA |
| 1,2-Dibromoethane (EDB) | NA | NA | NA | NA |
| 1,2-Dichlorobenzene | NA | NA | NA | NA |
| 1,2-Dichloroethane | NA | NA | NA | NA |
| 1,2-Dichloropropane | NA | NA | NA | NA |
| 1,3,5-Trimethylbenzene | NA | NA | NA | NA |
| 1,3-Dichlorobenzene | NA | NA | NA | NA |
| 1,3-Dichloropropane | NA | NA | NA | NA |
| 1,4-Dichlorobenzene | NA | NA | NA | NA |
| 2,2-Dichloropropane | NA | NA | NA | NA |
| 2-Butanone (MEK) | NA | NA | NA | NA |
| 2-Chlorotoluene | NA | NA | NA | NA |
| 2-Hexanone | NA | NA | NA | NA |
| 4-Chlorotoluene | NA | NA | NA | NA |
| 4-Isopropyltoluene | NA | NA | NA | NA |
| 4-Methyl-2-pentanone (MIBK) | NA | NA | NA | NA |
| Acetone | NA | NA | NA | NA |
| Benzene | NA | NA | NA | NA |
| Bromobenzene | NA | NA | NA | NA |
| Bromochloromethane | NA | NA | NA | NA |
| Bromodichloromethane | NA | NA | NA | NA |
| Bromoform | NA | NA | NA | NA |
| Bromomethane | NA | NA | NA | NA |
| Carbon Disulfide | NA | NA | NA | NA |
| Carbon Tetrachloride | NA | NA | NA | NA |
| Chlorobenzene | NA | NA | NA | NA |
| Chloroethane | NA | NA | NA | NA |
| Chloroform | NA | NA | NA | NA |
| Chloromethane | NA | NA | NA | NA |
| Dibromochloromethane | NA | NA | NA | NA |
| Dibromomethane | NA | NA | NA | NA |
| Dichlorodifluoromethane (CFC 12) | NA | NA | NA | NA |
| Ethylbenzene | NA | NA | NA | NA |
| Hexachlorobutadiene | NA | NA | NA | NA |
| Isopropylbenzene | NA | NA | NA | NA |
| Methylene Chloride | NA | NA | NA | NA |
| Naphthalene | NA | NA | NA | NA |
| Styrene | NA | NA | NA | NA |
| Tetrachloroethene (PCE) | NA | NA | NA | NA |
| Toluene | NA | NA | NA | NA |
| Total Xylenes | NA | NA | NA | NA |
| Trichloroethene (TCE) | NA | NA | NA | NA |
| Trichlorofluoromethane (CFC 11) | NA | NA | NA | NA |
| Vinyl Chloride | NA | NA | NA | NA |
| cis-1,2-Dichloroethene | NA | NA | NA | NA |
| cis-1,3-Dichloropropene | NA | NA | NA | NA |
| n-Butylbenzene | NA | NA | NA | NA |
| n-Propylbenzene | NA | NA | NA | NA |
| sec-Butylbenzene | NA | NA | NA | NA |

# 1994 North Airfield Groundwater Results

| Sample ID | 94FWN103WA | 94FWN104WA | 94FWN105WA | 94FWN106WA |
|---|---|---|---|---|
| Date | 9/17/94 | 9/17/94 | 9/18/94 | 9/18/94 |
| Time | 1445 | 1530 | 1000 | 1005 |
| Monitoring Well ID | 106009 | 106005 | AP-6186 | AP-6186 |
| Sample Type | PR | PR | QA-rinsate | QC-rinsate |
| tert-Butylbenzene | NA | NA | NA | NA |
| trans-1,2-Dichloroethene | NA | NA | NA | NA |
| trans-1,3-Dichloropropene | NA | NA | NA | NA |
| 7421 | | | | |
| Lead (GFAA) | NA | NA | NA | NA |
| Other | | | | |
| Total Kjeldahl Nitrogen (351.2) | 0.2 | 0.7 | ND(0.1) | NA |
| Total Organic Carbon (415.1) | 2.7 | 5.2 | ND(1) | NA |
| Nitrate, as N (353.1-354) | 0.11 | 0.05 | NA | NA |
| Nitrate-Nitrite, as N (353.1) | NA | NA | ND(0.03) | NA |
| Oil Degrading Bacteria (Sheen Scr.) | 2LT | 2LT | NA | NA |
| Phosphorous, Total (365.2) | 0.01U | 0.052 | NA | NA |
| Heterotrophic Plate (SM179215D) | 3 | 49 | NA | NA |
| Ammonia, as N (non-distilled) (350.1) | 0.11 | 0.24 | ND(0.05) | NA |

# 1994 North Airfield Groundwater Results

| Sample ID | 94FWN107WA | 94FWN109WA | 94FWN111WA | 94FWN112WA |
|---|---|---|---|---|
| Date | 9/18/94 | 9/18/94 | 9/18/94 | 9/18/94 |
| Time | 1230 | 1250 | 1310 | 1410 |
| Monitoring Well ID | AP-6186 | AP-6186 | TRIP | AP-6183 |
| Sample Type | PR | QC | QC | PR |
| 8015M | | | | |
| Gasoline Range Organics | ND(0.05) | ND(0.05) | ND(0.05) | 0.17 |
| Gasoline Range Organics | NA | NA | NA | NA |
| 8100M | | | | |
| Diesel Range Organics | NA | NA | NA | NA |
| Diesel Range Organics | ND(0.1) | 0.11 | NA | 0.48 |
| 8260 | | | | |
| 1,1,1,2-Tetrachloroethane | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,1,1-Trichloroethane | 2.6 | 2.5 | ND(1) | 590FE |
| 1,1,2,2-Tetrachloroethane | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,1,2-Trichloroethane | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,1-Dichloroethane | 1.4 | 1.2 | ND(1) | ND(1) |
| 1,1-Dichloroethene | ND(1) | ND(1) | ND(1) | 2.8 |
| 1,1-Dichloropropene | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,2,3-Trichlorobenzene | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,2,3-Trichloropropane | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,2,4-Trichlorobenzene | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,2,4-Trimethylbenzene | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,2-Dibromo-3-chloropropane | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,2-Dibromoethane | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,2-Dichlorobenzene | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,2-Dichloroethane | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,2-Dichloropropane | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,3,5-Trimethylbenzene | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,3-Dichlorobenzene | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,3-Dichloropropane | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,4-Dichlorobenzene | ND(1) | ND(1) | ND(1) | ND(1) |
| 2,2-Dichloropropane | ND(1) | ND(1) | ND(1) | ND(1) |
| 2-Butanone | ND(2) | ND(2) | ND(2) | ND(2) |
| 2-Chlorotoluene | ND(1) | ND(1) | ND(1) | ND(1) |
| 4-Chlorotoluene | ND(1) | ND(1) | ND(1) | ND(1) |
| Acetone | ND(2) | 4.1 | ND(2) | ND(2) |
| Benzene | ND(1) | ND(1) | ND(1) | 1.3 |
| Bromobenzene | ND(1) | ND(1) | ND(1) | ND(1) |
| Bromochloromethane | ND(1) | ND(1) | ND(1) | ND(1) |
| Bromodichloromethane | ND(1) | ND(1) | ND(1) | ND(1) |
| Bromoform | ND(1) | ND(1) | ND(1) | ND(1) |
| Bromomethane | ND(1) | ND(1) | ND(1) | ND(1) |
| Carbon tetrachloride | ND(1) | ND(1) | ND(1) | ND(1) |
| Chlorobenzene | ND(1) | ND(1) | ND(1) | ND(1) |
| Chloroethane | ND(1) | ND(1) | ND(1) | ND(1) |
| Chloroform | ND(1) | ND(1) | ND(1) | ND(1) |
| Chloromethane | ND(1) | ND(1) | ND(1) | ND(1) |
| Dibromochloromethane | ND(1) | ND(1) | ND(1) | ND(1) |
| Dibromomethane | ND(1) | ND(1) | ND(1) | ND(1) |
| Dichlorodifluoromethane | ND(1) | ND(1) | ND(1) | ND(1) |
| Ethyl benzene | ND(1) | ND(1) | ND(1) | ND(1) |
| Hexachlorobutadiene | ND(1) | ND(1) | ND(1) | ND(1) |
| Isopropylbenzene | ND(1) | ND(1) | ND(1) | ND(1) |
| Methylene chloride | 1.4 | ND(1) | ND(1) | ND(1) |
| Naphthalene | ND(1) | ND(1) | ND(1) | ND(1) |
| Styrene | ND(1) | ND(1) | ND(1) | ND(1) |
| Tetrachloroethene | ND(1) | ND(1) | ND(1) | ND(1) |
| Toluene | ND(1) | ND(1) | ND(1) | ND(1) |
| Trichloroethene | 1.2 | ND(1) | ND(1) | 1.5 |
| Trichlorofluoromethane | ND(1) | ND(1) | ND(1) | ND(1) |
| Vinyl chloride | ND(1) | ND(1) | ND(1) | ND(1) |
| cis-1,2-Dichloroethene | 2.1 | 2 | ND(1) | ND(1) |
| cis-1,3-Dichloropropene | ND(1) | ND(1) | ND(1) | ND(1) |
| m&p-Xylene | ND(1) | ND(1) | ND(1) | ND(1) |
| n-Butylbenzene | ND(1) | ND(1) | ND(1) | ND(1) |
| n-Propylbenzene | ND(1) | ND(1) | ND(1) | ND(1) |
| o-Xylene | ND(1) | ND(1) | ND(1) | ND(1) |
| p-Isopropyltoluene | ND(1) | ND(1) | ND(1) | ND(1) |

# 1994 North Airfield Groundwater Results

| Sample ID | 94FWN107WA | 94FWN109WA | 94FWN111WA | 94FWN112WA |
|---|---|---|---|---|
| Date | 9/18/94 | 9/18/94 | 9/18/94 | 9/18/94 |
| Time | 1230 | 1250 | 1310 | 1410 |
| Monitoring Well ID | AP-6186 | AP-6186 | TRIP | AP-6183 |
| Sample Type | PR | QC | QC | PR |
| sec-Butylbenzene | ND(1) | ND(1) | ND(1) | ND(1) |
| tert-Butylbenzene | ND(1) | ND(1) | ND(1) | ND(1) |
| trans-1,2-Dichloroethene | 2.6 | 2.12 | ND(1) | ND(1) |
| trans-1,3-Dichloropropene | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,1,1,2-Tetrachloroethane | NA | NA | NA | NA |
| 1,1,1-Trichloroethane (TCA) | NA | NA | NA | NA |
| 1,1,2,2-Tetrachloroethane | NA | NA | NA | NA |
| 1,1,2-Trichloroethane | NA | NA | NA | NA |
| 1,1-Dichloroethane | NA | NA | NA | NA |
| 1,1-Dichloroethene | NA | NA | NA | NA |
| 1,1-Dichloropropene | NA | NA | NA | NA |
| 1,2,3-Trichlorobenzene | NA | NA | NA | NA |
| 1,2,3-Trichloropropane | NA | NA | NA | NA |
| 1,2,4-Trichlorobenzene | NA | NA | NA | NA |
| 1,2,4-Trimethylbenzene | NA | NA | NA | NA |
| 1,2-Dibromo-3-chloropropane (DBCP) | NA | NA | NA | NA |
| 1,2-Dibromoethane (EDB) | NA | NA | NA | NA |
| 1,2-Dichlorobenzene | NA | NA | NA | NA |
| 1,2-Dichloroethane | NA | NA | NA | NA |
| 1,2-Dichloropropane | NA | NA | NA | NA |
| 1,3,5-Trimethylbenzene | NA | NA | NA | NA |
| 1,3-Dichlorobenzene | NA | NA | NA | NA |
| 1,3-Dichloropropane | NA | NA | NA | NA |
| 1,4-Dichlorobenzene | NA | NA | NA | NA |
| 2,2-Dichloropropane | NA | NA | NA | NA |
| 2-Butanone (MEK) | NA | NA | NA | NA |
| 2-Chlorotoluene | NA | NA | NA | NA |
| 2-Hexanone | NA | NA | NA | NA |
| 4-Chlorotoluene | NA | NA | NA | NA |
| 4-Isopropyltoluene | NA | NA | NA | NA |
| 4-Methyl-2-pentanone (MIBK) | NA | NA | NA | NA |
| Acetone | NA | NA | NA | NA |
| Benzene | NA | NA | NA | NA |
| Bromobenzene | NA | NA | NA | NA |
| Bromochloromethane | NA | NA | NA | NA |
| Bromodichloromethane | NA | NA | NA | NA |
| Bromoform | NA | NA | NA | NA |
| Bromomethane | NA | NA | NA | NA |
| Carbon Disulfide | NA | NA | NA | NA |
| Carbon Tetrachloride | NA | NA | NA | NA |
| Chlorobenzene | NA | NA | NA | NA |
| Chloroethane | NA | NA | NA | NA |
| Chloroform | NA | NA | NA | NA |
| Chloromethane | NA | NA | NA | NA |
| Dibromochloromethane | NA | NA | NA | NA |
| Dibromomethane | NA | NA | NA | NA |
| Dichlorodifluoromethane (CFC 12) | NA | NA | NA | NA |
| Ethylbenzene | NA | NA | NA | NA |
| Hexachlorobutadiene | NA | NA | NA | NA |
| Isopropylbenzene | NA | NA | NA | NA |
| Methylene Chloride | NA | NA | NA | NA |
| Naphthalene | NA | NA | NA | NA |
| Styrene | NA | NA | NA | NA |
| Tetrachloroethene (PCE) | NA | NA | NA | NA |
| Toluene | NA | NA | NA | NA |
| Total Xylenes | NA | NA | NA | NA |
| Trichloroethene (TCE) | NA | NA | NA | NA |
| Trichlorofluoromethane (CFC 11) | NA | NA | NA | NA |
| Vinyl Chloride | NA | NA | NA | NA |
| cis-1,2-Dichloroethene | NA | NA | NA | NA |
| cis-1,3-Dichloropropene | NA | NA | NA | NA |
| n-Butylbenzene | NA | NA | NA | NA |
| n-Propylbenzene | NA | NA | NA | NA |
| sec-Butylbenzene | NA | NA | NA | NA |

# 1994 North Airfield Groundwater Results

| Sample ID | 94FWN107WA | 94FWN109WA | 94FWN111WA | 94FWN112WA |
|---|---|---|---|---|
| Date | 9/18/94 | 9/18/94 | 9/18/94 | 9/18/94 |
| Time | 1230 | 1250 | 1310 | 1410 |
| Monitoring Well ID | AP-6186 | AP-6186 | TRIP | AP-6183 |
| Sample Type | PR | QC | QC | PR |
| tert-Butylbenzene | NA | NA | NA | NA |
| trans-1,2-Dichloroethene | NA | NA | NA | NA |
| trans-1,3-Dichloropropene | NA | NA | NA | NA |
| 7421 | | | | |
| Lead (GFAA) | NA | NA | NA | NA |
| Other | | | | |
| Total Kjeldahl Nitrogen (351.2) | ND(0.1) | ND(0.1) | NA | 0.2 |
| Total Organic Carbon (415.1) | 2.8 | 2.6 | NA | 5.3 |
| Nitrate, as N (353.1-354) | 0.21 | 0.11 | NA | 0.06 |
| Nitrate-Nitrite, as N (353.1) | NA | NA | NA | NA |
| Oil Degrading Bacteria (Sheen Scr.) | 17 | 5 | NA | 2LT |
| Phosphorous, Total (365.2) | 0.01U | 0.01U | NA | 0.037 |
| Heterotrophic Plate (SM179215D) | 23 | 93 | NA | 1 |
| Ammonia, as N (non-distilled) (350.1) | 0.18 | 0.18 | NA | 0.19 |

# 1994 North Airfield Groundwater Results

| Sample ID | 94FWN113WA | 94FWN114WA | 94FWN115WA | 94FWN116WA |
|---|---|---|---|---|
| Date | 9/18/94 | 9/19/94 | 9/19/94 | 9/20/94 |
| Time | 1600 | 1520 | 1820 | 0800 |
| Monitoring Well ID | 106002 | WN13 | WN3 | TRIP |
| Sample Type | PR | PR | PR | PR |
| 8015M | | | | |
| Gasoline Range Organics | 0.15 | 0.43 | 0.7 | ND(0.05) |
| Gasoline Range Organics | NA | NA | NA | NA |
| 8100M | | | | |
| Diesel Range Organics | NA | NA | NA | NA |
| Diesel Range Organics | 9.1 | 0.34 | 0.95 | NA |
| 8260 | | | | |
| 1,1,1,2-Tetrachloroethane | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,1,1-Trichloroethane | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,1,2,2-Tetrachloroethane | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,1,2-Trichloroethane | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,1-Dichloroethane | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,1-Dichloroethene | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,1-Dichloropropene | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,2,3-Trichlorobenzene | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,2,3-Trichloropropane | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,2,4-Trichlorobenzene | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,2,4-Trimethylbenzene | 8.2 | 1 | 71J | ND(1) |
| 1,2-Dibromo-3-chloropropane | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,2-Dibromoethane | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,2-Dichlorobenzene | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,2-Dichloroethane | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,2-Dichloropropane | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,3,5-Trimethylbenzene | 2.8 | 2.2 | 14 | ND(1) |
| 1,3-Dichlorobenzene | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,3-Dichloropropane | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,4-Dichlorobenzene | ND(1) | ND(1) | ND(1) | ND(1) |
| 2,2-Dichloropropane | ND(1) | ND(1) | ND(1) | ND(1) |
| 2-Butanone | ND(2) | ND(2) | ND(2) | ND(2) |
| 2-Chlorotoluene | ND(1) | ND(1) | ND(1) | ND(1) |
| 4-Chlorotoluene | ND(1) | ND(1) | ND(1) | ND(1) |
| Acetone | ND(2) | ND(2) | ND(2) | ND(2) |
| Benzene | ND(1) | 27 | ND(1) | ND(1) |
| Bromobenzene | ND(1) | ND(1) | ND(1) | ND(1) |
| Bromochloromethane | ND(1) | ND(1) | ND(1) | ND(1) |
| Bromodichloromethane | ND(1) | ND(1) | ND(1) | ND(1) |
| Bromoform | ND(1) | ND(1) | ND(1) | ND(1) |
| Bromomethane | ND(1) | ND(1) | ND(1) | ND(1) |
| Carbon tetrachloride | ND(1) | ND(1) | ND(1) | ND(1) |
| Chlorobenzene | ND(1) | ND(1) | ND(1) | ND(1) |
| Chloroethane | ND(1) | ND(1) | ND(1) | ND(1) |
| Chloroform | ND(1) | ND(1) | ND(1) | ND(1) |
| Chloromethane | ND(1) | ND(1) | ND(1) | ND(1) |
| Dibromochloromethane | ND(1) | ND(1) | ND(1) | ND(1) |
| Dibromomethane | ND(1) | ND(1) | ND(1) | ND(1) |
| Dichlorodifluoromethane | ND(1) | ND(1) | ND(1) | ND(1) |
| Ethyl benzene | ND(1) | ND(1) | ND(1) | ND(1) |
| Hexachlorobutadiene | ND(1) | ND(1) | ND(1) | ND(1) |
| Isopropylbenzene | ND(1) | 3.2 | 3.7 | ND(1) |
| Methylene chloride | ND(1) | ND(1) | 1.2B-O | 1.2B-O |
| Naphthalene | ND(1) | ND(1) | 2.1 | ND(1) |
| Styrene | ND(1) | ND(1) | ND(1) | ND(1) |
| Tetrachloroethene | ND(1) | ND(1) | ND(1) | ND(1) |
| Toluene | ND(1) | ND(1) | ND(1) | ND(1) |
| Trichloroethene | ND(1) | ND(1) | 380J | ND(1) |
| Trichlorofluoromethane | ND(1) | ND(1) | ND(1) | ND(1) |
| Vinyl chloride | ND(1) | ND(1) | ND(1) | ND(1) |
| cis-1,2-Dichloroethene | ND(1) | ND(1) | 120J | ND(1) |
| cis-1,3-Dichloropropene | ND(1) | ND(1) | ND(1) | ND(1) |
| m&p-Xylene | ND(1) | ND(1) | 1.1 | ND(1) |
| n-Butylbenzene | ND(1) | ND(1) | ND(1) | ND(1) |
| n-Propylbenzene | ND(1) | 2.3 | ND(1) | ND(1) |
| o-Xylene | ND(1) | ND(1) | ND(1) | ND(1) |
| p-Isopropyltoluene | ND(1) | ND(1) | 14 | ND(1) |

# 1994 North Airfield Groundwater Results

| Sample ID | 94FWN113WA | 94FWN114WA | 94FWN115WA | 94FWN116WA |
|---|---|---|---|---|
| Date | 9/18/94 | 9/19/94 | 9/19/94 | 9/20/94 |
| Time | 1600 | 1520 | 1820 | 0800 |
| Monitoring Well ID | 106002 | WN13 | WN3 | TRIP |
| Sample Type | PR | PR | PR | PR |
| sec-Butylbenzene | ND(1) | 1.8 | 8.7 | ND(1) |
| tert-Butylbenzene | ND(1) | ND(1) | ND(1) | ND(1) |
| trans-1,2-Dichloroethene | ND(1) | ND(1) | ND(1) | ND(1) |
| trans-1,3-Dichloropropene | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,1,1,2-Tetrachloroethane | NA | NA | NA | NA |
| 1,1,1-Trichloroethane (TCA) | NA | NA | NA | NA |
| 1,1,2,2-Tetrachloroethane | NA | NA | NA | NA |
| 1,1,2-Trichloroethane | NA | NA | NA | NA |
| 1,1-Dichloroethane | NA | NA | NA | NA |
| 1,1-Dichloroethene | NA | NA | NA | NA |
| 1,1-Dichloropropene | NA | NA | NA | NA |
| 1,2,3-Trichlorobenzene | NA | NA | NA | NA |
| 1,2,3-Trichloropropane | NA | NA | NA | NA |
| 1,2,4-Trichlorobenzene | NA | NA | NA | NA |
| 1,2,4-Trimethylbenzene | NA | NA | NA | NA |
| 1,2-Dibromo-3-chloropropane (DBCP) | NA | NA | NA | NA |
| 1,2-Dibromoethane (EDB) | NA | NA | NA | NA |
| 1,2-Dichlorobenzene | NA | NA | NA | NA |
| 1,2-Dichloroethane | NA | NA | NA | NA |
| 1,2-Dichloropropane | NA | NA | NA | NA |
| 1,3,5-Trimethylbenzene | NA | NA | NA | NA |
| 1,3-Dichlorobenzene | NA | NA | NA | NA |
| 1,3-Dichloropropane | NA | NA | NA | NA |
| 1,4-Dichlorobenzene | NA | NA | NA | NA |
| 2,2-Dichloropropane | NA | NA | NA | NA |
| 2-Butanone (MEK) | NA | NA | NA | NA |
| 2-Chlorotoluene | NA | NA | NA | NA |
| 2-Hexanone | NA | NA | NA | NA |
| 4-Chlorotoluene | NA | NA | NA | NA |
| 4-Isopropyltoluene | NA | NA | NA | NA |
| 4-Methyl-2-pentanone (MIBK) | NA | NA | NA | NA |
| Acetone | NA | NA | NA | NA |
| Benzene | NA | NA | NA | NA |
| Bromobenzene | NA | NA | NA | NA |
| Bromochloromethane | NA | NA | NA | NA |
| Bromodichloromethane | NA | NA | NA | NA |
| Bromoform | NA | NA | NA | NA |
| Bromomethane | NA | NA | NA | NA |
| Carbon Disulfide | NA | NA | NA | NA |
| Carbon Tetrachloride | NA | NA | NA | NA |
| Chlorobenzene | NA | NA | NA | NA |
| Chloroethane | NA | NA | NA | NA |
| Chloroform | NA | NA | NA | NA |
| Chloromethane | NA | NA | NA | NA |
| Dibromochloromethane | NA | NA | NA | NA |
| Dibromomethane | NA | NA | NA | NA |
| Dichlorodifluoromethane (CFC 12) | NA | NA | NA | NA |
| Ethylbenzene | NA | NA | NA | NA |
| Hexachlorobutadiene | NA | NA | NA | NA |
| Isopropylbenzene | NA | NA | NA | NA |
| Methylene Chloride | NA | NA | NA | NA |
| Naphthalene | NA | NA | NA | NA |
| Styrene | NA | NA | NA | NA |
| Tetrachloroethene (PCE) | NA | NA | NA | NA |
| Toluene | NA | NA | NA | NA |
| Total Xylenes | NA | NA | NA | NA |
| Trichloroethene (TCE) | NA | NA | NA | NA |
| Trichlorofluoromethane (CFC 11) | NA | NA | NA | NA |
| Vinyl Chloride | NA | NA | NA | NA |
| cis-1,2-Dichloroethene | NA | NA | NA | NA |
| cis-1,3-Dichloropropene | NA | NA | NA | NA |
| n-Butylbenzene | NA | NA | NA | NA |
| n-Propylbenzene | NA | NA | NA | NA |
| sec-Butylbenzene | NA | NA | NA | NA |

# 1994 North Airfield Groundwater Results

| Sample ID | 94FWN113WA | 94FWN114WA | 94FWN115WA | 94FWN116WA |
|---|---|---|---|---|
| Date | 9/18/94 | 9/19/94 | 9/19/94 | 9/20/94 |
| Time | 1600 | 1520 | 1820 | 0800 |
| Monitoring Well ID | 106002 | WN13 | WN3 | TRIP |
| Sample Type | PR | PR | PR | PR |
| tert-Butylbenzene | NA | NA | NA | NA |
| trans-1,2-Dichloroethene | NA | NA | NA | NA |
| trans-1,3-Dichloropropene | NA | NA | NA | NA |
| 7421 | | | | |
| Lead (GFAA) | NA | NA | NA | NA |
| Other | | | | |
| Total Kjeldahl Nitrogen (351.2) | 0.2 | 0.6 | 0.2 | NA |
| Total Organic Carbon (415.1) | 2.2 | 2.7 | 3.5 | NA |
| Nitrate, as N (353.1-354) | ND(0.03) | ND(0.03) | ND(0.03) | NA |
| Nitrate-Nitrite, as N (353.1) | NA | NA | NA | NA |
| Oil Degrading Bacteria (Sheen Scr.) | 2LT | 62 | 8 | NA |
| Phosphorous, Total (365.2) | 0.012 | 0.01U | 0.01U | NA |
| Heterotrophic Plate (SM179215D) | 41 | 28.5 | 5 | NA |
| Ammonia, as N (non-distilled) (350.1) | 0.09 | 0.15 | 0.39 | NA |

# 1994 North Airfield Groundwater Results

| Sample ID | 94FWN117WA | 94FWN118WA | 94FWN119WA | 94FWN120WA |
|---|---|---|---|---|
| Date | 9/20/94 | 9/20/94 | 9/20/94 | 9/20/94 |
| Time | 1230 | 1535 | 1745 | 1845 |
| Monitoring Well ID | WN5 | WN14 | WN4 | TRIP |
| Sample Type | PR | PR | PR | PR |
| 8015M | | | | |
| Gasoline Range Organics | 1.2 | 2.6 | 0.05 | ND(0.05) |
| Gasoline Range Organics | NA | NA | NA | NA |
| 8100M | | | | |
| Diesel Range Organics | NA | NA | NA | NA |
| Diesel Range Organics | 0.51 | 0.13 | 0.95 | NA |
| 8260 | | | | |
| 1,1,1,2-Tetrachloroethane | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,1,1-Trichloroethane | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,1,2,2-Tetrachloroethane | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,1,2-Trichloroethane | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,1-Dichloroethane | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,1-Dichloroethene | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,1-Dichloropropene | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,2,3-Trichlorobenzene | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,2,3-Trichloropropane | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,2,4-Trichlorobenzene | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,2,4-Trimethylbenzene | 350FC | 140FC | 1 | ND(1) |
| 1,2-Dibromo-3-chloropropane | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,2-Dibromoethane | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,2-Dichlorobenzene | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,2-Dichloroethane | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,2-Dichloropropane | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,3,5-Trimethylbenzene | 100FC | 41 | ND(1) | ND(1) |
| 1,3-Dichlorobenzene | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,3-Dichloropropane | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,4-Dichlorobenzene | ND(1) | ND(1) | ND(1) | ND(1) |
| 2,2-Dichloropropane | ND(1) | ND(1) | ND(1) | ND(1) |
| 2-Butanone | ND(2) | ND(2) | ND(2) | ND(2) |
| 2-Chlorotoluene | ND(1) | ND(1) | ND(1) | ND(1) |
| 4-Chlorotoluene | ND(1) | ND(1) | ND(1) | ND(1) |
| Acetone | ND(2) | ND(2) | ND(2) | ND(2) |
| Benzene | ND(1) | ND(1) | ND(1) | ND(1) |
| Bromobenzene | ND(1) | ND(1) | ND(1) | ND(1) |
| Bromochloromethane | ND(1) | ND(1) | ND(1) | ND(1) |
| Bromodichloromethane | ND(1) | ND(1) | ND(1) | ND(1) |
| Bromoform | ND(1) | ND(1) | ND(1) | ND(1) |
| Bromomethane | ND(1) | ND(1) | ND(1) | ND(1) |
| Carbon tetrachloride | ND(1) | ND(1) | ND(1) | ND(1) |
| Chlorobenzene | ND(1) | ND(1) | ND(1) | ND(1) |
| Chloroethane | ND(1) | ND(1) | ND(1) | ND(1) |
| Chloroform | ND(1) | ND(1) | ND(1) | ND(1) |
| Chloromethane | ND(1) | ND(1) | ND(1) | ND(1) |
| Dibromochloromethane | ND(1) | ND(1) | ND(1) | ND(1) |
| Dibromomethane | ND(1) | ND(1) | ND(1) | ND(1) |
| Dichlorodifluoromethane | ND(1) | ND(1) | ND(1) | ND(1) |
| Ethyl benzene | 5.2 | 90FC | ND(1) | ND(1) |
| Hexachlorobutadiene | ND(1) | ND(1) | ND(1) | ND(1) |
| Isopropylbenzene | 22 | 7.5 | ND(1) | ND(1) |
| Methylene chloride | ND(1) | ND(1) | 1.1B-O | ND(1) |
| Naphthalene | 13B-O | 39B-O | 3.7B-O | ND(1) |
| Styrene | ND(1) | ND(1) | ND(1) | ND(1) |
| Tetrachloroethene | ND(1) | ND(1) | ND(1) | ND(1) |
| Toluene | ND(1) | 100FC | ND(1) | ND(1) |
| Trichloroethene | ND(1) | ND(1) | 14 | ND(1) |
| Trichlorofluoromethane | ND(1) | ND(1) | ND(1) | ND(1) |
| Vinyl chloride | ND(1) | ND(1) | ND(1) | ND(1) |
| cis-1,2-Dichloroethene | ND(1) | ND(1) | 8.1 | ND(1) |
| cis-1,3-Dichloropropene | ND(1) | ND(1) | ND(1) | ND(1) |
| m&p-Xylene | 13 | 410FC | 1.2 | ND(1) |
| n-Butylbenzene | ND(1) | ND(1) | ND(1) | ND(1) |
| n-Propylbenzene | 47FC | 14 | ND(1) | ND(1) |
| o-Xylene | ND(1) | 29 | ND(1) | ND(1) |
| p-Isopropyltoluene | 36 | ND(1) | ND(1) | ND(1) |

# 1994 North Airfield Groundwater Results

| Sample ID | 94FWN117WA | 94FWN118WA | 94FWN119WA | 94FWN120WA |
|---|---|---|---|---|
| Date | 9/20/94 | 9/20/94 | 9/20/94 | 9/20/94 |
| Time | 1230 | 1535 | 1745 | 1845 |
| Monitoring Well ID | WN5 | WN14 | WN4 | TRIP |
| Sample Type | PR | PR | PR | PR |
| sec-Butylbenzene | 33 | ND(1) | ND(1) | ND(1) |
| tert-Butylbenzene | ND(1) | ND(1) | ND(1) | ND(1) |
| trans-1,2-Dichloroethene | ND(1) | ND(1) | 2.9 | ND(1) |
| trans-1,3-Dichloropropene | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,1,1,2-Tetrachloroethane | NA | NA | NA | NA |
| 1,1,1-Trichloroethane (TCA) | NA | NA | NA | NA |
| 1,1,2,2-Tetrachloroethane | NA | NA | NA | NA |
| 1,1,2-Trichloroethane | NA | NA | NA | NA |
| 1,1-Dichloroethane | NA | NA | NA | NA |
| 1,1-Dichloroethene | NA | NA | NA | NA |
| 1,1-Dichloropropene | NA | NA | NA | NA |
| 1,2,3-Trichlorobenzene | NA | NA | NA | NA |
| 1,2,3-Trichloropropane | NA | NA | NA | NA |
| 1,2,4-Trichlorobenzene | NA | NA | NA | NA |
| 1,2,4-Trimethylbenzene | NA | NA | NA | NA |
| 1,2-Dibromo-3-chloropropane (DBCP) | NA | NA | NA | NA |
| 1,2-Dibromoethane (EDB) | NA | NA | NA | NA |
| 1,2-Dichlorobenzene | NA | NA | NA | NA |
| 1,2-Dichloroethane | NA | NA | NA | NA |
| 1,2-Dichloropropane | NA | NA | NA | NA |
| 1,3,5-Trimethylbenzene | NA | NA | NA | NA |
| 1,3-Dichlorobenzene | NA | NA | NA | NA |
| 1,3-Dichloropropane | NA | NA | NA | NA |
| 1,4-Dichlorobenzene | NA | NA | NA | NA |
| 2,2-Dichloropropane | NA | NA | NA | NA |
| 2-Butanone (MEK) | NA | NA | NA | NA |
| 2-Chlorotoluene | NA | NA | NA | NA |
| 2-Hexanone | NA | NA | NA | NA |
| 4-Chlorotoluene | NA | NA | NA | NA |
| 4-Isopropyltoluene | NA | NA | NA | NA |
| 4-Methyl-2-pentanone (MIBK) | NA | NA | NA | NA |
| Acetone | NA | NA | NA | NA |
| Benzene | NA | NA | NA | NA |
| Bromobenzene | NA | NA | NA | NA |
| Bromochloromethane | NA | NA | NA | NA |
| Bromodichloromethane | NA | NA | NA | NA |
| Bromoform | NA | NA | NA | NA |
| Bromomethane | NA | NA | NA | NA |
| Carbon Disulfide | NA | NA | NA | NA |
| Carbon Tetrachloride | NA | NA | NA | NA |
| Chlorobenzene | NA | NA | NA | NA |
| Chloroethane | NA | NA | NA | NA |
| Chloroform | NA | NA | NA | NA |
| Chloromethane | NA | NA | NA | NA |
| Dibromochloromethane | NA | NA | NA | NA |
| Dibromomethane | NA | NA | NA | NA |
| Dichlorodifluoromethane (CFC 12) | NA | NA | NA | NA |
| Ethylbenzene | NA | NA | NA | NA |
| Hexachlorobutadiene | NA | NA | NA | NA |
| Isopropylbenzene | NA | NA | NA | NA |
| Methylene Chloride | NA | NA | NA | NA |
| Naphthalene | NA | NA | NA | NA |
| Styrene | NA | NA | NA | NA |
| Tetrachloroethene (PCE) | NA | NA | NA | NA |
| Toluene | NA | NA | NA | NA |
| Total Xylenes | NA | NA | NA | NA |
| Trichloroethene (TCE) | NA | NA | NA | NA |
| Trichlorofluoromethane (CFC 11) | NA | NA | NA | NA |
| Vinyl Chloride | NA | NA | NA | NA |
| cis-1,2-Dichloroethene | NA | NA | NA | NA |
| cis-1,3-Dichloropropene | NA | NA | NA | NA |
| n-Butylbenzene | NA | NA | NA | NA |
| n-Propylbenzene | NA | NA | NA | NA |
| sec-Butylbenzene | NA | NA | NA | NA |

# 1994 North Airfield Groundwater Results

| Sample ID | 94FWN117WA | 94FWN118WA | 94FWN119WA | 94FWN120WA |
|---|---|---|---|---|
| Date | 9/20/94 | 9/20/94 | 9/20/94 | 9/20/94 |
| Time | 1230 | 1535 | 1745 | 1845 |
| Monitoring Well ID | WN5 | WN14 | WN4 | TRIP |
| Sample Type | PR | PR | PR | PR |
| tert-Butylbenzene | NA | NA | NA | NA |
| trans-1,2-Dichloroethene | NA | NA | NA | NA |
| trans-1,3-Dichloropropene | NA | NA | NA | NA |
| 7421 | | | | |
| Lead (GFAA) | NA | NA | NA | NA |
| Other | | | | |
| Total Kjeldahl Nitrogen (351.2) | 0.2 | ND(0.1) | ND(0.1) | NA |
| Total Organic Carbon (415.1) | 4.5 | 3.9 | 3.3 | NA |
| Nitrate, as N (353.1-354) | ND(0.03) | ND(0.03) | ND(0.03) | NA |
| Nitrate-Nitrite, as N (353.1) | NA | NA | NA | NA |
| Oil Degrading Bacteria (Sheen Scr.) | 2LT | 2LT | 2LT | NA |
| Phosphorous, Total (365.2) | 0.025 | 0.016 | 0.2 | NA |
| Heterotrophic Plate (SM179215D) | 2LT | 49 | 70 | NA |
| Ammonia, as N (non-distilled) (350.1) | 0.07 | 0.06 | ND(0.05) | NA |

# 1994 North Airfield Groundwater Results

| Sample ID | 94FWN121WA | 94FWN122WA | 94FWN123WA | 94FWN124WA |
|---|---|---|---|---|
| Date | 9/26/94 | 9/26/94 | 9/26/94 | 9/26/94 |
| Time | 1205 | 1420 | 1705 | 1845 |
| Monitoring Well ID | WN1 | AP-5975 | WN12 | WN2 |
| Sample Type | PR | PR | PR | PR |
| 8015M | | | | |
| Gasoline Range Organics | 1.2 | 6.2 | 0.56 | 0.2 |
| Gasoline Range Organics | NA | NA | NA | NA |
| 8100M | | | | |
| Diesel Range Organics | NA | NA | NA | NA |
| Diesel Range Organics | 0.93 | 4.5 | 0.62 | 0.29 |
| 8260 | | | | |
| 1,1,1,2-Tetrachloroethane | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,1,1-Trichloroethane | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,1,2,2-Tetrachloroethane | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,1,2-Trichloroethane | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,1-Dichloroethane | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,1-Dichloroethene | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,1-Dichloropropene | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,2,3-Trichlorobenzene | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,2,3-Trichloropropane | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,2,4-Trichlorobenzene | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,2,4-Trimethylbenzene | ND(1) | 180 TIC | ND(1) | ND(1) |
| 1,2-Dibromo-3-chloropropane | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,2-Dibromoethane | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,2-Dichlorobenzene | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,2-Dichloroethane | 9.7 | 68 | 3.8 | ND(1) |
| 1,2-Dichloropropane | ND(1) | 2.8 | ND(1) | ND(1) |
| 1,3,5-Trimethylbenzene | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,3-Dichlorobenzene | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,3-Dichloropropane | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,4-Dichlorobenzene | ND(1) | ND(1) | ND(1) | ND(1) |
| 2,2-Dichloropropane | ND(1) | ND(1) | ND(1) | ND(1) |
| 2-Butanone | ND(10) | ND(10) | ND(10) | ND(10) |
| 2-Chlorotoluene | ND(1) | ND(1) | ND(1) | ND(1) |
| 4-Chlorotoluene | ND(1) | ND(1) | ND(1) | ND(1) |
| Acetone | ND(10) | ND(10) | ND(10) | ND(10) |
| Benzene | 280 | 1400 | 220 | 1.6 |
| Bromobenzene | ND(1) | ND(1) | ND(1) | ND(1) |
| Bromochloromethane | ND(1) | ND(1) | ND(1) | ND(1) |
| Bromodichloromethane | ND(1) | ND(1) | ND(1) | ND(1) |
| Bromoform | ND(1) | ND(1) | ND(1) | ND(1) |
| Bromomethane | ND(1) | ND(1) | ND(1) | ND(1) |
| Carbon tetrachloride | ND(1) | ND(1) | ND(1) | ND(1) |
| Chlorobenzene | ND(1) | ND(1) | ND(1) | ND(1) |
| Chloroethane | ND(1) | ND(1) | ND(1) | ND(1) |
| Chloroform | ND(1) | ND(1) | ND(1) | ND(1) |
| Chloromethane | ND(1) | ND(1) | ND(1) | ND(1) |
| Dibromochloromethane | ND(1) | ND(1) | ND(1) | ND(1) |
| Dibromomethane | ND(1) | ND(1) | ND(1) | ND(1) |
| Dichlorodifluoromethane | ND(1) | ND(1) | ND(1) | ND(1) |
| Ethyl benzene | 84 | 200 | 2.2 | 2.6 |
| Hexachlorobutadiene | ND(1) | ND(1) | ND(1) | ND(1) |
| Isopropylbenzene | ND(1) | ND(1) | ND(1) | ND(1) |
| Methylene chloride | ND(1) | 1.5B-O | ND(1) | ND(1) |
| Naphthalene | ND(1) | ND(1) | ND(1) | ND(1) |
| Styrene | ND(1) | 0.63J | ND(1) | ND(1) |
| Tetrachloroethene | ND(1) | ND(1) | ND(1) | ND(1) |
| Toluene | 5.8 | 160 | 1.4 | 1.5 |
| Trichloroethene | 1 | ND(1) | ND(1) | ND(1) |
| Trichlorofluoromethane | ND(1) | ND(1) | ND(1) | ND(1) |
| Vinyl chloride | ND(1) | ND(1) | ND(1) | ND(1) |
| cis-1,2-Dichloroethene | ND(1) | ND(1) | 1.2 | 1.5 |
| cis-1,3-Dichloropropene | ND(1) | ND(1) | ND(1) | ND(1) |
| m&p-Xylene | ND(1) | ND(1) | ND(1) | ND(1) |
| n-Butylbenzene | ND(1) | ND(1) | ND(1) | ND(1) |
| n-Propylbenzene | ND(1) | ND(1) | ND(1) | ND(1) |
| o-Xylene | 70 TOTAL | 700 total | 2.0 total | 9.2 total |
| p-Isopropyltoluene | ND(1) | ND(1) | ND(1) | ND(1) |

# 1994 North Airfield Groundwater Results

| Sample ID | 94FWN121WA | 94FWN122WA | 94FWN123WA | 94FWN124WA |
|---|---|---|---|---|
| Date | 9/26/94 | 9/26/94 | 9/26/94 | 9/26/94 |
| Time | 1205 | 1420 | 1705 | 1845 |
| Monitoring Well ID | WN1 | AP-5975 | WN12 | WN2 |
| Sample Type | PR | PR | PR | PR |
| sec-Butylbenzene | ND(1) | ND(1) | ND(1) | ND(1) |
| tert-Butylbenzene | ND(1) | ND(1) | ND(1) | ND(1) |
| trans-1,2-Dichloroethene | ND(1) | ND(1) | ND(1) | 0.57J |
| trans-1,3-Dichloropropene | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,1,1,2-Tetrachloroethane | NA | NA | NA | NA |
| 1,1,1-Trichloroethane (TCA) | NA | NA | NA | NA |
| 1,1,2,2-Tetrachloroethane | NA | NA | NA | NA |
| 1,1,2-Trichloroethane | NA | NA | NA | NA |
| 1,1-Dichloroethane | NA | NA | NA | NA |
| 1,1-Dichloroethene | NA | NA | NA | NA |
| 1,1-Dichloropropene | NA | NA | NA | NA |
| 1,2,3-Trichlorobenzene | NA | NA | NA | NA |
| 1,2,3-Trichloropropane | NA | NA | NA | NA |
| 1,2,4-Trichlorobenzene | NA | NA | NA | NA |
| 1,2,4-Trimethylbenzene | NA | NA | NA | NA |
| 1,2-Dibromo-3-chloropropane (DBCP) | NA | NA | NA | NA |
| 1,2-Dibromoethane (EDB) | NA | NA | NA | NA |
| 1,2-Dichlorobenzene | NA | NA | NA | NA |
| 1,2-Dichloroethane | NA | NA | NA | NA |
| 1,2-Dichloropropane | NA | NA | NA | NA |
| 1,3,5-Trimethylbenzene | NA | NA | NA | NA |
| 1,3-Dichlorobenzene | NA | NA | NA | NA |
| 1,3-Dichloropropane | NA | NA | NA | NA |
| 1,4-Dichlorobenzene | NA | NA | NA | NA |
| 2,2-Dichloropropane | NA | NA | NA | NA |
| 2-Butanone (MEK) | NA | NA | NA | NA |
| 2-Chlorotoluene | NA | NA | NA | NA |
| 2-Hexanone | NA | NA | NA | NA |
| 4-Chlorotoluene | NA | NA | NA | NA |
| 4-Isopropyltoluene | NA | NA | NA | NA |
| 4-Methyl-2-pentanone (MIBK) | NA | NA | NA | NA |
| Acetone | NA | NA | NA | NA |
| Benzene | NA | NA | NA | NA |
| Bromobenzene | NA | NA | NA | NA |
| Bromochloromethane | NA | NA | NA | NA |
| Bromodichloromethane | NA | NA | NA | NA |
| Bromoform | NA | NA | NA | NA |
| Bromomethane | NA | NA | NA | NA |
| Carbon Disulfide | NA | NA | NA | NA |
| Carbon Tetrachloride | NA | NA | NA | NA |
| Chlorobenzene | NA | NA | NA | NA |
| Chloroethane | NA | NA | NA | NA |
| Chloroform | NA | NA | NA | NA |
| Chloromethane | NA | NA | NA | NA |
| Dibromochloromethane | NA | NA | NA | NA |
| Dibromomethane | NA | NA | NA | NA |
| Dichlorodifluoromethane (CFC 12) | NA | NA | NA | NA |
| Ethylbenzene | NA | NA | NA | NA |
| Hexachlorobutadiene | NA | NA | NA | NA |
| Isopropylbenzene | NA | NA | NA | NA |
| Methylene Chloride | NA | NA | NA | NA |
| Naphthalene | NA | NA | NA | NA |
| Styrene | NA | NA | NA | NA |
| Tetrachloroethene (PCE) | NA | NA | NA | NA |
| Toluene | NA | NA | NA | NA |
| Total Xylenes | NA | NA | NA | NA |
| Trichloroethene (TCE) | NA | NA | NA | NA |
| Trichlorofluoromethane (CFC 11) | NA | NA | NA | NA |
| Vinyl Chloride | NA | NA | NA | NA |
| cis-1,2-Dichloroethene | NA | NA | NA | NA |
| cis-1,3-Dichloropropene | NA | NA | NA | NA |
| n-Butylbenzene | NA | NA | NA | NA |
| n-Propylbenzene | NA | NA | NA | NA |
| sec-Butylbenzene | NA | NA | NA | NA |

# 1994 North Airfield Groundwater Results

| Sample ID | 94FWN121WA | 94FWN122WA | 94FWN123WA | 94FWN124WA |
|---|---|---|---|---|
| Date | 9/26/94 | 9/26/94 | 9/26/94 | 9/26/94 |
| Time | 1205 | 1420 | 1705 | 1845 |
| Monitoring Well ID | WN1 | AP-5975 | WN12 | WN2 |
| Sample Type | PR | PR | PR | PR |
| tert-Butylbenzene | NA | NA | NA | NA |
| trans-1,2-Dichloroethene | NA | NA | NA | NA |
| trans-1,3-Dichloropropene | NA | NA | NA | NA |
| 7421 | | | | |
| Lead (GFAA) | ND(0.002) | ND(0.002) | ND(0.002) | ND(0.002) |
| Other | | | | |
| Total Kjeldahl Nitrogen (351.2) | 0.5 | 0.7 | 0.4 | 0.3 |
| Total Organic Carbon (415.1) | 5.8 | 14 | 3.9 | 2.3 |
| Nitrate, as N (353.1-354) | ND(0.03) | ND(0.03) | ND(0.03) | <0.15MI |
| Nitrate-Nitrite, as N (353.1) | NA | NA | NA | NA |
| Oil Degrading Bacteria (Sheen Scr.) | 2LT | 2LT | 2LT | 2LT |
| Phosphorous, Total (365.2) | 0.047 | 0.035 | 0.01U | 0.025 |
| Heterotrophic Plate (SM179215D) | 8 | 14 | 34 | 5.1 |
| Ammonia, as N (non-distilled) (350.1) | 0.15 | 0.22 | 0.1 | 0.11 |

# 1994 North Airfield Groundwater Results

| Sample ID | 94FWN125WA | 94FWN126WA | 94FWN127WA | 94FWN128WA |
|---|---|---|---|---|
| Date | 9/27/94 | 9/27/94 | 9/27/94 | 9/27/94 |
| Time | 0730 | 1155 | 1445 | 1650 |
| Monitoring Well ID | TRIP | WN10 | WN6 | WN9 |
| Sample Type | PR | PR | PR | PR |
| 8015M | | | | |
| Gasoline Range Organics | ND(0.05) | 7.5 | 0.25 | 0.52 |
| Gasoline Range Organics | NA | NA | NA | NA |
| 8100M | | | | |
| Diesel Range Organics | NA | NA | NA | NA |
| Diesel Range Organics | NA | 5.1 | 0.68 | 0.37 |
| 8260 | | | | |
| 1,1,1,2-Tetrachloroethane | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,1,1-Trichloroethane | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,1,2,2-Tetrachloroethane | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,1,2-Trichloroethane | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,1-Dichloroethane | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,1-Dichloroethene | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,1-Dichloropropene | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,2,3-Trichlorobenzene | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,2,3-Trichloropropane | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,2,4-Trichlorobenzene | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,2,4-Trimethylbenzene | ND(1) | 220 | ND(1) | 23 |
| 1,2-Dibromo-3-chloropropane | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,2-Dibromoethane | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,2-Dichlorobenzene | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,2-Dichloroethane | ND(1) | 20 | ND(1) | ND(1) |
| 1,2-Dichloropropane | ND(1) | 2.3 | ND(1) | ND(1) |
| 1,3,5-Trimethylbenzene | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,3-Dichlorobenzene | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,3-Dichloropropane | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,4-Dichlorobenzene | ND(1) | ND(1) | ND(1) | ND(1) |
| 2,2-Dichloropropane | ND(1) | ND(1) | ND(1) | ND(1) |
| 2-Butanone | ND(10) | ND(10) | ND(10) | ND(10) |
| 2-Chlorotoluene | ND(1) | ND(1) | ND(1) | ND(1) |
| 4-Chlorotoluene | ND(1) | ND(1) | ND(1) | ND(1) |
| Acetone | ND(10) | ND(10) | ND(10) | ND(10) |
| Benzene | ND(1) | 1200 | 1.9 | 0.62J |
| Bromobenzene | ND(1) | ND(1) | ND(1) | ND(1) |
| Bromochloromethane | ND(1) | ND(1) | ND(1) | ND(1) |
| Bromodichloromethane | ND(1) | ND(1) | ND(1) | ND(1) |
| Bromoform | ND(1) | ND(1) | ND(1) | ND(1) |
| Bromomethane | ND(1) | ND(1) | ND(1) | ND(1) |
| Carbon tetrachloride | ND(1) | ND(1) | ND(1) | ND(1) |
| Chlorobenzene | ND(1) | ND(1) | ND(1) | ND(1) |
| Chloroethane | ND(1) | ND(1) | ND(1) | ND(1) |
| Chloroform | 0.57J | ND(1) | ND(1) | ND(1) |
| Chloromethane | ND(1) | ND(1) | ND(1) | ND(1) |
| Dibromochloromethane | ND(1) | ND(1) | ND(1) | ND(1) |
| Dibromomethane | ND(1) | ND(1) | ND(1) | ND(1) |
| Dichlorodifluoromethane | ND(1) | ND(1) | ND(1) | ND(1) |
| Ethyl benzene | ND(1) | 200 | ND(1) | 20 |
| Hexachlorobutadiene | ND(1) | ND(1) | ND(1) | ND(1) |
| Isopropylbenzene | ND(1) | ND(1) | ND(1) | ND(1) |
| Methylene chloride | ND(1) | 1.5B-O | ND(1) | ND(1) |
| Naphthalene | ND(1) | ND(1) | ND(1) | ND(1) |
| Styrene | ND(1) | ND(1) | ND(1) | ND(1) |
| Tetrachloroethene | ND(1) | ND(1) | ND(1) | ND(1) |
| Toluene | ND(1) | 1300 | 0.79J | 2.1 |
| Trichloroethene | ND(1) | ND(1) | ND(1) | ND(1) |
| Trichlorofluoromethane | ND(1) | ND(1) | ND(1) | ND(1) |
| Vinyl chloride | ND(1) | ND(1) | ND(1) | ND(1) |
| cis-1,2-Dichloroethene | ND(1) | ND(1) | ND(1) | ND(1) |
| cis-1,3-Dichloropropene | ND(1) | ND(1) | ND(1) | ND(1) |
| m&p-Xylene | ND(1) | – | – | – |
| n-Butylbenzene | ND(1) | ND(1) | ND(1) | ND(1) |
| n-Propylbenzene | ND(1) | ND(1) | ND(1) | ND(1) |
| o-Xylene | ND(1) | 850 total | 8.8 total | 26 total |
| p-Isopropyltoluene | ND(1) | ND(1) | ND(1) | ND(1) |

# 1994 North Airfield Groundwater Results

| Sample ID | 94FWN125WA | 94FWN126WA | 94FWN127WA | 94FWN128WA |
|---|---|---|---|---|
| Date | 9/27/94 | 9/27/94 | 9/27/94 | 9/27/94 |
| Time | 0730 | 1155 | 1445 | 1650 |
| Monitoring Well ID | TRIP | WN10 | WN6 | WN9 |
| Sample Type | PR | PR | PR | PR |
| sec-Butylbenzene | ND(1) | ND(1) | ND(1) | ND(1) |
| tert-Butylbenzene | ND(1) | ND(1) | ND(1) | ND(1) |
| trans-1,2-Dichloroethene | ND(1) | ND(1) | ND(1) | ND(1) |
| trans-1,3-Dichloropropene | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,1,1,2-Tetrachloroethane | NA | NA | NA | NA |
| 1,1,1-Trichloroethane (TCA) | NA | NA | NA | NA |
| 1,1,2,2-Tetrachloroethane | NA | NA | NA | NA |
| 1,1,2-Trichloroethane | NA | NA | NA | NA |
| 1,1-Dichloroethane | NA | NA | NA | NA |
| 1,1-Dichloroethene | NA | NA | NA | NA |
| 1,1-Dichloropropene | NA | NA | NA | NA |
| 1,2,3-Trichlorobenzene | NA | NA | NA | NA |
| 1,2,3-Trichloropropane | NA | NA | NA | NA |
| 1,2,4-Trichlorobenzene | NA | NA | NA | NA |
| 1,2,4-Trimethylbenzene | NA | NA | NA | NA |
| 1,2-Dibromo-3-chloropropane (DBCP) | NA | NA | NA | NA |
| 1,2-Dibromoethane (EDB) | NA | NA | NA | NA |
| 1,2-Dichlorobenzene | NA | NA | NA | NA |
| 1,2-Dichloroethane | NA | NA | NA | NA |
| 1,2-Dichloropropane | NA | NA | NA | NA |
| 1,3,5-Trimethylbenzene | NA | NA | NA | NA |
| 1,3-Dichlorobenzene | NA | NA | NA | NA |
| 1,3-Dichloropropane | NA | NA | NA | NA |
| 1,4-Dichlorobenzene | NA | NA | NA | NA |
| 2,2-Dichloropropane | NA | NA | NA | NA |
| 2-Butanone (MEK) | NA | NA | NA | NA |
| 2-Chlorotoluene | NA | NA | NA | NA |
| 2-Hexanone | NA | NA | NA | NA |
| 4-Chlorotoluene | NA | NA | NA | NA |
| 4-Isopropyltoluene | NA | NA | NA | NA |
| 4-Methyl-2-pentanone (MIBK) | NA | NA | NA | NA |
| Acetone | NA | NA | NA | NA |
| Benzene | NA | NA | NA | NA |
| Bromobenzene | NA | NA | NA | NA |
| Bromochloromethane | NA | NA | NA | NA |
| Bromodichloromethane | NA | NA | NA | NA |
| Bromoform | NA | NA | NA | NA |
| Bromomethane | NA | NA | NA | NA |
| Carbon Disulfide | NA | NA | NA | NA |
| Carbon Tetrachloride | NA | NA | NA | NA |
| Chlorobenzene | NA | NA | NA | NA |
| Chloroethane | NA | NA | NA | NA |
| Chloroform | NA | NA | NA | NA |
| Chloromethane | NA | NA | NA | NA |
| Dibromochloromethane | NA | NA | NA | NA |
| Dibromomethane | NA | NA | NA | NA |
| Dichlorodifluoromethane (CFC 12) | NA | NA | NA | NA |
| Ethylbenzene | NA | NA | NA | NA |
| Hexachlorobutadiene | NA | NA | NA | NA |
| Isopropylbenzene | NA | NA | NA | NA |
| Methylene Chloride | NA | NA | NA | NA |
| Naphthalene | NA | NA | NA | NA |
| Styrene | NA | NA | NA | NA |
| Tetrachloroethene (PCE) | NA | NA | NA | NA |
| Toluene | NA | NA | NA | NA |
| Total Xylenes | NA | NA | NA | NA |
| Trichloroethene (TCE) | NA | NA | NA | NA |
| Trichlorofluoromethane (CFC 11) | NA | NA | NA | NA |
| Vinyl Chloride | NA | NA | NA | NA |
| cis-1,2-Dichloroethene | NA | NA | NA | NA |
| cis-1,3-Dichloropropene | NA | NA | NA | NA |
| n-Butylbenzene | NA | NA | NA | NA |
| n-Propylbenzene | NA | NA | NA | NA |
| sec-Butylbenzene | NA | NA | NA | NA |

# 1994 North Airfield Groundwater Results

| Sample ID | 94FWN125WA | 94FWN126WA | 94FWN127WA | 94FWN128WA |
|---|---|---|---|---|
| Date | 9/27/94 | 9/27/94 | 9/27/94 | 9/27/94 |
| Time | 0730 | 1155 | 1445 | 1650 |
| Monitoring Well ID | TRIP | WN10 | WN6 | WN9 |
| Sample Type | PR | PR | PR | PR |
| tert-Butylbenzene | NA | NA | NA | NA |
| trans-1,2-Dichloroethene | NA | NA | NA | NA |
| trans-1,3-Dichloropropene | NA | NA | NA | NA |
| 7421 | | | | |
| Lead (GFAA) | NA | ND(0.002) | ND(0.002) | ND(0.002) |
| Other | | | | |
| Total Kjeldahl Nitrogen (351.2) | NA | 0.2 | 0.3 | 0.4 |
| Total Organic Carbon (415.1) | NA | 14 | 3 | 2.4 |
| Nitrate, as N (353.1-354) | NA | ND(0.03) | 0.5 | ND(0.03) |
| Nitrate-Nitrite, as N (353.1) | NA | NA | NA | NA |
| Oil Degrading Bacteria (Sheen Scr.) | NA | 2 | 2LT | 13 |
| Phosphorous, Total (365.2) | NA | 0.031 | 0.01U | 0.029 |
| Heterotrophic Plate (SM179215D) | NA | 5 | 96 | 27 |
| Ammonia, as N (non-distilled) (350.1) | NA | 0.2 | ND(0.05) | 0.24 |

# 1994 North Airfield Groundwater Results

| Sample ID | 94FWN129WA | 94FWN130WA | 94FWN132WA | 94FWN133WA |
|---|---|---|---|---|
| Date | 9/27/94 | 9/28/94 | 9/28/94 | 9/28/94 |
| Time | 1855 | 0830 | 1030 | 1345 |
| Monitoring Well ID | WN7 | TRIP | WN8 | WN8 |
| Sample Type | PR | PR | QC | PR |
| 8015M | | | | |
| Gasoline Range Organics | 5 | ND(0.05) | ND(0.05) | 0.61 |
| Gasoline Range Organics | NA | NA | NA | NA |
| 8100M | | | | |
| Diesel Range Organics | NA | NA | NA | NA |
| Diesel Range Organics | 5.9 | NA | ND(0.1) | 0.29 |
| 8260 | | | | |
| 1,1,1,2-Tetrachloroethane | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,1,1-Trichloroethane | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,1,2,2-Tetrachloroethane | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,1,2-Trichloroethane | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,1-Dichloroethane | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,1-Dichloroethene | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,1-Dichloropropene | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,2,3-Trichlorobenzene | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,2,3-Trichloropropane | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,2,4-Trichlorobenzene | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,2,4-Trimethylbenzene | 430 | ND(1) | ND(1) | 1.6 |
| 1,2-Dibromo-3-chloropropane | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,2-Dibromoethane | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,2-Dichlorobenzene | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,2-Dichloroethane | 22 | ND(1) | ND(1) | ND(1) |
| 1,2-Dichloropropane | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,3,5-Trimethylbenzene | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,3-Dichlorobenzene | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,3-Dichloropropane | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,4-Dichlorobenzene | ND(1) | ND(1) | ND(1) | ND(1) |
| 2,2-Dichloropropane | ND(1) | ND(1) | ND(1) | ND(1) |
| 2-Butanone | ND(10) | ND(10) | ND(2) | ND(2) |
| 2-Chlorotoluene | ND(1) | ND(1) | ND(1) | ND(1) |
| 4-Chlorotoluene | ND(1) | ND(1) | ND(1) | ND(1) |
| Acetone | ND(10) | ND(10) | ND(2) | ND(2) |
| Benzene | 1700 | ND(1) | ND(1) | 95FC |
| Bromobenzene | ND(1) | ND(1) | ND(1) | ND(1) |
| Bromochloromethane | ND(1) | ND(1) | ND(1) | ND(1) |
| Bromodichloromethane | ND(1) | ND(1) | ND(1) | ND(1) |
| Bromoform | ND(1) | ND(1) | ND(1) | ND(1) |
| Bromomethane | ND(1) | ND(1) | ND(1) | ND(1) |
| Carbon tetrachloride | ND(1) | ND(1) | ND(1) | ND(1) |
| Chlorobenzene | ND(1) | ND(1) | ND(1) | ND(1) |
| Chloroethane | ND(1) | ND(1) | ND(1) | ND(1) |
| Chloroform | ND(1) | ND(1) | ND(1) | ND(1) |
| Chloromethane | ND(1) | ND(1) | ND(1) | ND(1) |
| Dibromochloromethane | ND(1) | ND(1) | ND(1) | ND(1) |
| Dibromomethane | ND(1) | ND(1) | ND(1) | ND(1) |
| Dichlorodifluoromethane | ND(1) | ND(1) | ND(1) | ND(1) |
| Ethyl benzene | 330 | ND(1) | ND(1) | ND(1) |
| Hexachlorobutadiene | ND(1) | ND(1) | ND(1) | ND(1) |
| Isopropylbenzene | ND(1) | ND(1) | ND(1) | 3.6 |
| Methylene chloride | 1.5B-O | ND(1) | 1.2B-O | ND(1) |
| Naphthalene | ND(1) | 11 | ND(1) | ND(1) |
| Styrene | ND(1) | ND(1) | ND(1) | ND(1) |
| Tetrachloroethene | ND(1) | ND(1) | ND(1) | ND(1) |
| Toluene | 1800 | ND(1) | ND(1) | ND(1) |
| Trichloroethene | ND(1) | ND(1) | ND(1) | ND(1) |
| Trichlorofluoromethane | ND(1) | ND(1) | ND(1) | ND(1) |
| Vinyl chloride | ND(1) | ND(1) | ND(1) | ND(1) |
| cis-1,2-Dichloroethene | ND(1) | ND(1) | ND(1) | 1.1 |
| cis-1,3-Dichloropropene | ND(1) | ND(1) | ND(1) | ND(1) |
| m&p-Xylene | – | ND(1) | ND(1) | 1.3 |
| n-Butylbenzene | ND(1) | ND(1) | ND(1) | ND(1) |
| n-Propylbenzene | ND(1) | ND(1) | ND(1) | 3.2 |
| o-Xylene | 2300 total | ND(1) | ND(1) | ND(1) |
| p-Isopropyltoluene | ND(1) | ND(1) | ND(1) | ND(1) |

# 1994 North Airfield Groundwater Results

| Sample ID | 94FWN129WA | 94FWN130WA | 94FWN132WA | 94FWN133WA |
|---|---|---|---|---|
| Date | 9/27/94 | 9/28/94 | 9/28/94 | 9/28/94 |
| Time | 1855 | 0830 | 1030 | 1345 |
| Monitoring Well ID | WN7 | TRIP | WN8 | WN8 |
| Sample Type | PR | PR | QC | PR |
| sec-Butylbenzene | ND(1) | ND(1) | ND(1) | ND(1) |
| tert-Butylbenzene | ND(1) | ND(1) | ND(1) | ND(1) |
| trans-1,2-Dichloroethene | ND(1) | ND(1) | ND(1) | ND(1) |
| trans-1,3-Dichloropropene | ND(1) | ND(1) | ND(1) | ND(1) |
| 1,1,1,2-Tetrachloroethane | NA | NA | NA | NA |
| 1,1,1-Trichloroethane (TCA) | NA | NA | NA | NA |
| 1,1,2,2-Tetrachloroethane | NA | NA | NA | NA |
| 1,1,2-Trichloroethane | NA | NA | NA | NA |
| 1,1-Dichloroethane | NA | NA | NA | NA |
| 1,1-Dichloroethene | NA | NA | NA | NA |
| 1,1-Dichloropropene | NA | NA | NA | NA |
| 1,2,3-Trichlorobenzene | NA | NA | NA | NA |
| 1,2,3-Trichloropropane | NA | NA | NA | NA |
| 1,2,4-Trichlorobenzene | NA | NA | NA | NA |
| 1,2,4-Trimethylbenzene | NA | NA | NA | NA |
| 1,2-Dibromo-3-chloropropane (DBCP) | NA | NA | NA | NA |
| 1,2-Dibromoethane (EDB) | NA | NA | NA | NA |
| 1,2-Dichlorobenzene | NA | NA | NA | NA |
| 1,2-Dichloroethane | NA | NA | NA | NA |
| 1,2-Dichloropropane | NA | NA | NA | NA |
| 1,3,5-Trimethylbenzene | NA | NA | NA | NA |
| 1,3-Dichlorobenzene | NA | NA | NA | NA |
| 1,3-Dichloropropane | NA | NA | NA | NA |
| 1,4-Dichlorobenzene | NA | NA | NA | NA |
| 2,2-Dichloropropane | NA | NA | NA | NA |
| 2-Butanone (MEK) | NA | NA | NA | NA |
| 2-Chlorotoluene | NA | NA | NA | NA |
| 2-Hexanone | NA | NA | NA | NA |
| 4-Chlorotoluene | NA | NA | NA | NA |
| 4-Isopropyltoluene | NA | NA | NA | NA |
| 4-Methyl-2-pentanone (MIBK) | NA | NA | NA | NA |
| Acetone | NA | NA | NA | NA |
| Benzene | NA | NA | NA | NA |
| Bromobenzene | NA | NA | NA | NA |
| Bromochloromethane | NA | NA | NA | NA |
| Bromodichloromethane | NA | NA | NA | NA |
| Bromoform | NA | NA | NA | NA |
| Bromomethane | NA | NA | NA | NA |
| Carbon Disulfide | NA | NA | NA | NA |
| Carbon Tetrachloride | NA | NA | NA | NA |
| Chlorobenzene | NA | NA | NA | NA |
| Chloroethane | NA | NA | NA | NA |
| Chloroform | NA | NA | NA | NA |
| Chloromethane | NA | NA | NA | NA |
| Dibromochloromethane | NA | NA | NA | NA |
| Dibromomethane | NA | NA | NA | NA |
| Dichlorodifluoromethane (CFC 12) | NA | NA | NA | NA |
| Ethylbenzene | NA | NA | NA | NA |
| Hexachlorobutadiene | NA | NA | NA | NA |
| Isopropylbenzene | NA | NA | NA | NA |
| Methylene Chloride | NA | NA | NA | NA |
| Naphthalene | NA | NA | NA | NA |
| Styrene | NA | NA | NA | NA |
| Tetrachloroethene (PCE) | NA | NA | NA | NA |
| Toluene | NA | NA | NA | NA |
| Total Xylenes | NA | NA | NA | NA |
| Trichloroethene (TCE) | NA | NA | NA | NA |
| Trichlorofluoromethane (CFC 11) | NA | NA | NA | NA |
| Vinyl Chloride | NA | NA | NA | NA |
| cis-1,2-Dichloroethene | NA | NA | NA | NA |
| cis-1,3-Dichloropropene | NA | NA | NA | NA |
| n-Butylbenzene | NA | NA | NA | NA |
| n-Propylbenzene | NA | NA | NA | NA |
| sec-Butylbenzene | NA | NA | NA | NA |

# 1994 North Airfield Groundwater Results

| Sample ID | 94FWN129WA | 94FWN130WA | 94FWN132WA | 94FWN133WA |
|---|---|---|---|---|
| Date | 9/27/94 | 9/28/94 | 9/28/94 | 9/28/94 |
| Time | 1855 | 0830 | 1030 | 1345 |
| Monitoring Well ID | WN7 | TRIP | WN8 | WN8 |
| Sample Type | PR | PR | QC | PR |
| tert-Butylbenzene | NA | NA | NA | NA |
| trans-1,2-Dichloroethene | NA | NA | NA | NA |
| trans-1,3-Dichloropropene | NA | NA | NA | NA |
| 7421 | | | | |
| Lead (GFAA) | ND(0.002) | NA | ND(0.002) | ND(0.002) |
| Other | | | | |
| Total Kjeldahl Nitrogen (351.2) | 0.6 | NA | 0.2 | ND(0.1) |
| Total Organic Carbon (415.1) | 13 | NA | ND(1) | 3 |
| Nitrate, as N (353.1-354) | ND(0.03) | NA | ND(0.03) | ND(0.03) |
| Nitrate-Nitrite, as N (353.1) | NA | NA | NA | NA |
| Oil Degrading Bacteria (Sheen Scr.) | 2LT | NA | NA | 2LT |
| Phosphorous, Total (365.2) | 0.043 | NA | NA | 0.018 |
| Heterotrophic Plate (SM179215D) | 7 | NA | NA | 27 |
| Ammonia, as N (non-distilled) (350.1) | 0.07 | NA | 0.17 | 0.09 |

# 1994 North Airfield Groundwater Results

| Sample ID | 94FWN135WA | 94FWN136WA | 94FWN137WA | 94FWN139WA |
|---|---|---|---|---|
| Date | 9/28/94 | 9/28/94 | 9/29/94 | 10/16/94 |
| Time | 1405 | 1632 | 0810 | 1530 |
| Monitoring Well ID | WN8 | WN11 | TRIP | WN15 |
| Sample Type | QC | PR | PR | PR |
| 8015M | | | | |
| Gasoline Range Organics | 0.58 | 0.48 | ND(0.05) | NA |
| Gasoline Range Organics | NA | NA | NA | ND(50) |
| 8100M | | | | |
| Diesel Range Organics | NA | NA | NA | 510 |
| Diesel Range Organics | 0.29 | 0.24 | NA | NA |
| 8260 | | | | |
| 1,1,1,2-Tetrachloroethane | ND(1) | ND(1) | ND(1) | NA |
| 1,1,1-Trichloroethane | ND(1) | ND(1) | ND(1) | NA |
| 1,1,2,2-Tetrachloroethane | ND(1) | ND(1) | ND(1) | NA |
| 1,1,2-Trichloroethane | ND(1) | ND(1) | ND(1) | NA |
| 1,1-Dichloroethane | ND(1) | ND(1) | ND(1) | NA |
| 1,1-Dichloroethene | ND(1) | ND(1) | ND(1) | NA |
| 1,1-Dichloropropene | ND(1) | ND(1) | ND(1) | NA |
| 1,2,3-Trichlorobenzene | ND(1) | ND(1) | ND(1) | NA |
| 1,2,3-Trichloropropane | ND(1) | ND(1) | ND(1) | NA |
| 1,2,4-Trichlorobenzene | ND(1) | ND(1) | ND(1) | NA |
| 1,2,4-Trimethylbenzene | 1.5 | ND(1) | ND(1) | NA |
| 1,2-Dibromo-3-chloropropane | ND(1) | ND(1) | ND(1) | NA |
| 1,2-Dibromoethane | ND(1) | ND(1) | ND(1) | NA |
| 1,2-Dichlorobenzene | ND(1) | ND(1) | ND(1) | NA |
| 1,2-Dichloroethane | ND(1) | ND(1) | ND(1) | NA |
| 1,2-Dichloropropane | ND(1) | ND(1) | ND(1) | NA |
| 1,3,5-Trimethylbenzene | ND(1) | ND(1) | ND(1) | NA |
| 1,3-Dichlorobenzene | ND(1) | ND(1) | ND(1) | NA |
| 1,3-Dichloropropane | ND(1) | ND(1) | ND(1) | NA |
| 1,4-Dichlorobenzene | ND(1) | ND(1) | ND(1) | NA |
| 2,2-Dichloropropane | ND(1) | ND(1) | ND(1) | NA |
| 2-Butanone | ND(2) | ND(2) | ND(2) | NA |
| 2-Chlorotoluene | ND(1) | ND(1) | ND(1) | NA |
| 4-Chlorotoluene | ND(1) | ND(1) | ND(1) | NA |
| Acetone | ND(2) | ND(2) | ND(2) | NA |
| Benzene | 110FC | 96FC | ND(1) | NA |
| Bromobenzene | ND(1) | ND(1) | ND(1) | NA |
| Bromochloromethane | ND(1) | ND(1) | ND(1) | NA |
| Bromodichloromethane | ND(1) | ND(1) | ND(1) | NA |
| Bromoform | ND(1) | ND(1) | ND(1) | NA |
| Bromomethane | ND(1) | ND(1) | ND(1) | NA |
| Carbon tetrachloride | ND(1) | ND(1) | ND(1) | NA |
| Chlorobenzene | ND(1) | ND(1) | ND(1) | NA |
| Chloroethane | ND(1) | ND(1) | ND(1) | NA |
| Chloroform | ND(1) | ND(1) | ND(1) | NA |
| Chloromethane | ND(1) | ND(1) | ND(1) | NA |
| Dibromochloromethane | ND(1) | ND(1) | ND(1) | NA |
| Dibromomethane | ND(1) | ND(1) | ND(1) | NA |
| Dichlorodifluoromethane | ND(1) | ND(1) | ND(1) | NA |
| Ethyl benzene | ND(1) | ND(1) | ND(1) | NA |
| Hexachlorobutadiene | ND(1) | ND(1) | ND(1) | NA |
| Isopropylbenzene | 3.3 | 3 | ND(1) | NA |
| Methylene chloride | ND(1) | ND(1) | ND(1) | NA |
| Naphthalene | ND(1) | ND(1) | ND(1) | NA |
| Styrene | ND(1) | ND(1) | ND(1) | NA |
| Tetrachloroethene | ND(1) | ND(1) | ND(1) | NA |
| Toluene | ND(1) | ND(1) | ND(1) | NA |
| Trichloroethene | ND(1) | ND(1) | ND(1) | NA |
| Trichlorofluoromethane | ND(1) | ND(1) | ND(1) | NA |
| Vinyl chloride | ND(1) | ND(1) | ND(1) | NA |
| cis-1,2-Dichloroethene | 1.2 | ND(1) | ND(1) | NA |
| cis-1,3-Dichloropropene | ND(1) | ND(1) | ND(1) | NA |
| m&p-Xylene | 1.3 | ND(1) | ND(1) | NA |
| n-Butylbenzene | ND(1) | ND(1) | ND(1) | NA |
| n-Propylbenzene | 2.9 | 1.2 | ND(1) | NA |
| o-Xylene | ND(1) | ND(1) | ND(1) | NA |
| p-Isopropyltoluene | ND(1) | ND(1) | ND(1) | NA |

# 1994 North Airfield Groundwater Results

| Sample ID | 94FWN135WA | 94FWN136WA | 94FWN137WA | 94FWN139WA |
|---|---|---|---|---|
| Date | 9/28/94 | 9/28/94 | 9/29/94 | 10/16/94 |
| Time | 1405 | 1632 | 0810 | 1530 |
| Monitoring Well ID | WN8 | WN11 | TRIP | WN15 |
| Sample Type | QC | PR | PR | PR |
| sec-Butylbenzene | ND(1) | ND(1) | ND(1) | NA |
| tert-Butylbenzene | ND(1) | ND(1) | ND(1) | NA |
| trans-1,2-Dichloroethene | ND(1) | ND(1) | ND(1) | NA |
| trans-1,3-Dichloropropene | ND(1) | ND(1) | ND(1) | NA |
| 1,1,1,2-Tetrachloroethane | NA | NA | NA | ND(0.5) |
| 1,1,1-Trichloroethane (TCA) | NA | NA | NA | ND(0.5) |
| 1,1,2,2-Tetrachloroethane | NA | NA | NA | ND(0.5) |
| 1,1,2-Trichloroethane | NA | NA | NA | ND(0.5) |
| 1,1-Dichloroethane | NA | NA | NA | ND(0.5) |
| 1,1-Dichloroethene | NA | NA | NA | ND(0.5) |
| 1,1-Dichloropropene | NA | NA | NA | ND(0.5) |
| 1,2,3-Trichlorobenzene | NA | NA | NA | ND(2) |
| 1,2,3-Trichloropropane | NA | NA | NA | ND(0.5) |
| 1,2,4-Trichlorobenzene | NA | NA | NA | ND(2) |
| 1,2,4-Trimethylbenzene | NA | NA | NA | ND(2) |
| 1,2-Dibromo-3-chloropropane (DBCP) | NA | NA | NA | ND(2) |
| 1,2-Dibromoethane (EDB) | NA | NA | NA | ND(2) |
| 1,2-Dichlorobenzene | NA | NA | NA | ND(0.5) |
| 1,2-Dichloroethane | NA | NA | NA | ND(0.5) |
| 1,2-Dichloropropane | NA | NA | NA | ND(0.5) |
| 1,3,5-Trimethylbenzene | NA | NA | NA | ND(2) |
| 1,3-Dichlorobenzene | NA | NA | NA | ND(0.5) |
| 1,3-Dichloropropane | NA | NA | NA | ND(0.5) |
| 1,4-Dichlorobenzene | NA | NA | NA | ND(0.5) |
| 2,2-Dichloropropane | NA | NA | NA | ND(0.5) |
| 2-Butanone (MEK) | NA | NA | NA | ND(20) |
| 2-Chlorotoluene | NA | NA | NA | ND(2) |
| 2-Hexanone | NA | NA | NA | ND(20) |
| 4-Chlorotoluene | NA | NA | NA | ND(2) |
| 4-Isopropyltoluene | NA | NA | NA | ND(2) |
| 4-Methyl-2-pentanone (MIBK) | NA | NA | NA | ND(20) |
| Acetone | NA | NA | NA | ND(20) |
| Benzene | NA | NA | NA | ND(0.5) |
| Bromobenzene | NA | NA | NA | ND(0.5) |
| Bromochloromethane | NA | NA | NA | ND(0.5) |
| Bromodichloromethane | NA | NA | NA | ND(0.5) |
| Bromoform | NA | NA | NA | ND(0.5) |
| Bromomethane | NA | NA | NA | ND(0.5) |
| Carbon Disulfide | NA | NA | NA | ND(0.5) |
| Carbon Tetrachloride | NA | NA | NA | ND(0.5) |
| Chlorobenzene | NA | NA | NA | ND(0.5) |
| Chloroethane | NA | NA | NA | ND(0.5) |
| Chloroform | NA | NA | NA | ND(0.5) |
| Chloromethane | NA | NA | NA | ND(0.5) |
| Dibromochloromethane | NA | NA | NA | ND(0.5) |
| Dibromomethane | NA | NA | NA | ND(0.5) |
| Dichlorodifluoromethane (CFC 12) | NA | NA | NA | ND(0.5) |
| Ethylbenzene | NA | NA | NA | ND(0.5) |
| Hexachlorobutadiene | NA | NA | NA | ND(2) |
| Isopropylbenzene | NA | NA | NA | ND(2) |
| Methylene Chloride | NA | NA | NA | ND(1) |
| Naphthalene | NA | NA | NA | ND(2) |
| Styrene | NA | NA | NA | ND(0.5) |
| Tetrachloroethene (PCE) | NA | NA | NA | ND(0.5) |
| Toluene | NA | NA | NA | ND(0.5) |
| Total Xylenes | NA | NA | NA | ND(0.5) |
| Trichloroethene (TCE) | NA | NA | NA | ND(0.5) |
| Trichlorofluoromethane (CFC 11) | NA | NA | NA | ND(0.5) |
| Vinyl Chloride | NA | NA | NA | ND(0.5) |
| cis-1,2-Dichloroethene | NA | NA | NA | ND(0.5) |
| cis-1,3-Dichloropropene | NA | NA | NA | ND(0.5) |
| n-Butylbenzene | NA | NA | NA | ND(2) |
| n-Propylbenzene | NA | NA | NA | ND(2) |
| sec-Butylbenzene | NA | NA | NA | ND(2) |

# 1994 North Airfield Groundwater Results

| Sample ID | 94FWN135WA | 94FWN136WA | 94FWN137WA | 94FWN139WA |
|---|---|---|---|---|
| Date | 9/28/94 | 9/28/94 | 9/29/94 | 10/16/94 |
| Time | 1405 | 1632 | 0810 | 1530 |
| Monitoring Well ID | WN8 | WN11 | TRIP | WN15 |
| Sample Type | QC | PR | PR | PR |
| tert-Butylbenzene | NA | NA | NA | ND(2) |
| trans-1,2-Dichloroethene | NA | NA | NA | ND(0.5) |
| trans-1,3-Dichloropropene | NA | NA | NA | ND(0.5) |
| 7421 | | | | |
| Lead (GFAA) | ND(0.002) | ND(0.002) | NA | NA |
| Other | | | | |
| Total Kjeldahl Nitrogen (351.2) | 0.2 | ND(0.1) | NA | NA |
| Total Organic Carbon (415.1) | 2.3 | 2.5 | NA | NA |
| Nitrate, as N (353.1-354) | ND(0.03) | ND(0.03) | NA | NA |
| Nitrate-Nitrite, as N (353.1) | NA | NA | NA | NA |
| Oil Degrading Bacteria (Sheen Scr.) | 2LT | 2LT | NA | NA |
| Phosphorous, Total (365.2) | 0.021 | 0.047 | NA | NA |
| Heterotrophic Plate (SM179215D) | 18 | 31 | NA | NA |
| Ammonia, as N (non-distilled) (350.1) | 0.1 | 0.06 | NA | NA |

# 1994 North Airfield Groundwater Results

| Sample ID | 94FWN140WA |
|---|---|
| Date | 10/16/94 |
| Time | 1600 |
| Monitoring Well ID | TRIP |
| Sample Type | PR |
| 8015M | |
| Gasoline Range Organics | NA |
| Gasoline Range Organics | ND(50) |
| 8100M | |
| Diesel Range Organics | NA |
| Diesel Range Organics | NA |
| 8260 | |
| 1,1,1,2-Tetrachloroethane | NA |
| 1,1,1-Trichloroethane | NA |
| 1,1,2,2-Tetrachloroethane | NA |
| 1,1,2-Trichloroethane | NA |
| 1,1-Dichloroethane | NA |
| 1,1-Dichloroethene | NA |
| 1,1-Dichloropropene | NA |
| 1,2,3-Trichlorobenzene | NA |
| 1,2,3-Trichloropropane | NA |
| 1,2,4-Trichlorobenzene | NA |
| 1,2,4-Trimethylbenzene | NA |
| 1,2-Dibromo-3-chloropropane | NA |
| 1,2-Dibromoethane | NA |
| 1,2-Dichlorobenzene | NA |
| 1,2-Dichloroethane | NA |
| 1,2-Dichloropropane | NA |
| 1,3,5-Trimethylbenzene | NA |
| 1,3-Dichlorobenzene | NA |
| 1,3-Dichloropropane | NA |
| 1,4-Dichlorobenzene | NA |
| 2,2-Dichloropropane | NA |
| 2-Butanone | NA |
| 2-Chlorotoluene | NA |
| 4-Chlorotoluene | NA |
| Acetone | NA |
| Benzene | NA |
| Bromobenzene | NA |
| Bromochloromethane | NA |
| Bromodichloromethane | NA |
| Bromoform | NA |
| Bromomethane | NA |
| Carbon tetrachloride | NA |
| Chlorobenzene | NA |
| Chloroethane | NA |
| Chloroform | NA |
| Chloromethane | NA |
| Dibromochloromethane | NA |
| Dibromomethane | NA |
| Dichlorodifluoromethane | NA |
| Ethyl benzene | NA |
| Hexachlorobutadiene | NA |
| Isopropylbenzene | NA |
| Methylene chloride | NA |
| Naphthalene | NA |
| Styrene | NA |
| Tetrachloroethene | NA |
| Toluene | NA |
| Trichloroethene | NA |
| Trichlorofluoromethane | NA |
| Vinyl chloride | NA |
| cis-1,2-Dichloroethene | NA |
| cis-1,3-Dichloropropene | NA |
| m&p-Xylene | NA |
| n-Butylbenzene | NA |
| n-Propylbenzene | NA |
| o-Xylene | NA |
| p-Isopropyltoluene | NA |

# 1994 North Airfield Groundwater Results

| Sample ID | 94FWN140WA |
|---|---|
| Date | 10/16/94 |
| Time | 1600 |
| Monitoring Well ID | TRIP |
| Sample Type | PR |
| sec-Butylbenzene | NA |
| tert-Butylbenzene | NA |
| trans-1,2-Dichloroethene | NA |
| trans-1,3-Dichloropropene | NA |
| 1,1,1,2-Tetrachloroethane | ND(0.5) |
| 1,1,1-Trichloroethane (TCA) | ND(0.5) |
| 1,1,2,2-Tetrachloroethane | ND(0.5) |
| 1,1,2-Trichloroethane | ND(0.5) |
| 1,1-Dichloroethane | ND(0.5) |
| 1,1-Dichloroethene | ND(0.5) |
| 1,1-Dichloropropene | ND(0.5) |
| 1,2,3-Trichlorobenzene | ND(2) |
| 1,2,3-Trichloropropane | ND(0.5) |
| 1,2,4-Trichlorobenzene | ND(2) |
| 1,2,4-Trimethylbenzene | ND(2) |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND(2) |
| 1,2-Dibromoethane (EDB) | ND(2) |
| 1,2-Dichlorobenzene | ND(0.5) |
| 1,2-Dichloroethane | ND(0.5) |
| 1,2-Dichloropropane | ND(0.5) |
| 1,3,5-Trimethylbenzene | ND(2) |
| 1,3-Dichlorobenzene | ND(0.5) |
| 1,3-Dichloropropane | ND(0.5) |
| 1,4-Dichlorobenzene | ND(0.5) |
| 2,2-Dichloropropane | ND(0.5) |
| 2-Butanone (MEK) | ND(20) |
| 2-Chlorotoluene | ND(2) |
| 2-Hexanone | ND(20) |
| 4-Chlorotoluene | ND(2) |
| 4-Isopropyltoluene | ND(2) |
| 4-Methyl-2-pentanone (MIBK) | ND(20) |
| Acetone | ND(20) |
| Benzene | ND(0.5) |
| Bromobenzene | ND(0.5) |
| Bromochloromethane | ND(0.5) |
| Bromodichloromethane | ND(0.5) |
| Bromoform | ND(0.5) |
| Bromomethane | ND(0.5) |
| Carbon Disulfide | ND(0.5) |
| Carbon Tetrachloride | ND(0.5) |
| Chlorobenzene | ND(0.5) |
| Chloroethane | ND(0.5) |
| Chloroform | ND(0.5) |
| Chloromethane | ND(0.5) |
| Dibromochloromethane | ND(0.5) |
| Dibromomethane | ND(0.5) |
| Dichlorodifluoromethane (CFC 12) | ND(0.5) |
| Ethylbenzene | ND(0.5) |
| Hexachlorobutadiene | ND(2) |
| Isopropylbenzene | ND(2) |
| Methylene Chloride | ND(1) |
| Naphthalene | ND(2) |
| Styrene | ND(0.5) |
| Tetrachloroethene (PCE) | ND(0.5) |
| Toluene | ND(0.5) |
| Total Xylenes | ND(0.5) |
| Trichloroethene (TCE) | ND(0.5) |
| Trichlorofluoromethane (CFC 11) | ND(0.5) |
| Vinyl Chloride | ND(0.5) |
| cis-1,2-Dichloroethene | ND(0.5) |
| cis-1,3-Dichloropropene | ND(0.5) |
| n-Butylbenzene | ND(2) |
| n-Propylbenzene | ND(2) |
| sec-Butylbenzene | ND(2) |

# 1994 North Airfield Groundwater Results

| Sample ID | 94FWN140WA |
|---|---|
| Date | 10/16/94 |
| Time | 1600 |
| Monitoring Well ID | TRIP |
| Sample Type | PR |
| tert-Butylbenzene | ND(2) |
| trans-1,2-Dichloroethene | ND(0.5) |
| trans-1,3-Dichloropropene | ND(0.5) |
| 7421 | |
| Lead (GFAA) | NA |
| Other | |
| Total Kjeldahl Nitrogen (351.2) | NA |
| Total Organic Carbon (415.1) | NA |
| Nitrate, as N (353.1-354) | NA |
| Nitrate-Nitrite, as N (353.1) | NA |
| Oil Degrading Bacteria (Sheen Scr.) | NA |
| Phosphorous, Total (365.2) | NA |
| Heterotrophic Plate (SM179215D) | NA |
| Ammonia, as N (non-distilled) (350.1) | NA |

## 1994 North Airfield Soil Results

Source: HLA, February 1995 North Airfield
Groundwater Investigation, Fort Wainwright, Alaska

# 1994 North Airfield Soil Results

| Sample ID | | 94FWN030SL | 94FWN031SL | 94FWN032SL | 94FWN033SL | 94FWN034SL |
|---|---|---|---|---|---|---|
| Date | | 8/27/94 | 8/27/94 | 8/27/94 | 8/27/94 | 8/29/94 |
| Well / Boring ID | | WN1 | WN1 | WN1 | WN1 | WN2 |
| Depth | | 0 | 5 | 10 | 15 | 0 |
| Sample Type | Units | PR | PR | PR | PR | PR |
| M8100 | | | | | | |
| Diesel Range Organics | mg/kg dw | 72 | ND(4.3) | 175 | 1610 | 385 |
| M8015 | | | | | | |
| Gasoline Range Organics | mg/kg dw | ND(1) | ND(1) | 22 | 561 | ND(1) |
| 8260 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ug/kg dw | ND(5.3) | ND(5.2) | ND(20) | ND(53) | ND(5.1) |
| 1,1,1-Trichloroethane | ug/kg dw | ND(5.3) | ND(5.2) | ND(20) | ND(53) | ND(5.1) |
| 1,1,2,2-Tetrachloroethane | ug/kg dw | ND(5.3) | ND(5.2) | ND(20) | ND(53) | ND(5.1) |
| 1,1,2-Trichloroethane | ug/kg dw | ND(5.3) | ND(5.2) | ND(20) | ND(53) | ND(5.1) |
| 1,1-Dichloroethane | ug/kg dw | ND(5.3) | ND(5.2) | ND(20) | ND(53) | ND(5.1) |
| 1,1-Dichloroethene | ug/kg dw | ND(5.3) | ND(5.2) | ND(20) | ND(53) | ND(5.1) |
| 1,1-Dichloropropene | ug/kg dw | ND(5.3) | ND(5.2) | ND(20) | ND(53) | ND(5.1) |
| 1,2,3-Trichlorobenzene | ug/kg dw | ND(5.3) | ND(5.2) | ND(20) | ND(53) | ND(5.1) |
| 1,2,3-Trichloropropane | ug/kg dw | ND(5.3) | ND(5.2) | ND(20) | ND(53) | ND(5.1) |
| 1,2,4-Trichlorobenzene | ug/kg dw | ND(5.3) | ND(5.2) | ND(20) | ND(53) | ND(5.1) |
| 1,2,4-Trimethylbenzene | ug/kg dw | ND(5.3) | ND(5.2) | ND(20) | 6670 | ND(5.1) |
| 1,2-Dibromo-3-chloropropane | ug/kg dw | ND(5.3) | ND(5.2) | ND(20) | ND(53) | ND(5.1) |
| 1,2-Dibromoethane | ug/kg dw | ND(5.3) | ND(5.2) | ND(20) | ND(53) | ND(5.1) |
| 1,2-Dichlorobenzene | ug/kg dw | ND(5.3) | ND(5.2) | ND(20) | ND(53) | ND(5.1) |
| 1,2-Dichloroethane | ug/kg dw | ND(5.3) | ND(5.2) | ND(20) | ND(53) | ND(5.1) |
| 1,2-Dichloropropane | ug/kg dw | ND(5.3) | ND(5.2) | ND(20) | ND(53) | ND(5.1) |
| 1,3,5-Trimethylbenzene | ug/kg dw | ND(5.3) | ND(5.2) | 74 | 8260 | ND(5.1) |
| 1,3-Dichlorobenzene | ug/kg dw | ND(5.3) | ND(5.2) | ND(20) | ND(53) | ND(5.1) |
| 1,3-Dichloropropane | ug/kg dw | ND(5.3) | ND(5.2) | ND(20) | ND(53) | ND(5.1) |
| 1,4-Dichlorobenzene | ug/kg dw | ND(5.3) | ND(5.2) | ND(20) | ND(53) | ND(5.1) |
| 2,2-Dichloropropane | ug/kg dw | ND(5.3) | ND(5.2) | ND(20) | ND(53) | ND(5.1) |
| 2-Butanone | ug/kg dw | ND(11) | ND(10) | ND(50) | ND(100) | ND(10) |
| 2-Chlorotoluene | ug/kg dw | ND(5.3) | ND(5.2) | ND(20) | ND(53) | ND(5.1) |
| 4-Chlorotoluene | ug/kg dw | ND(5.3) | ND(5.2) | ND(20) | ND(53) | ND(5.1) |
| Acetone | ug/kg dw | ND(11) | ND(10) | ND(50) | ND(100) | ND(10) |
| Benzene | ug/kg dw | ND(5.3) | ND(5.2) | ND(20) | ND(53) | ND(5.1) |
| Bromobenzene | ug/kg dw | ND(5.3) | ND(5.2) | ND(20) | ND(53) | ND(5.1) |
| Bromochloromethane | ug/kg dw | ND(5.3) | ND(5.2) | ND(20) | ND(53) | ND(5.1) |
| Bromodichloromethane | ug/kg dw | ND(5.3) | ND(5.2) | ND(20) | ND(53) | ND(5.1) |
| Bromoform | ug/kg dw | ND(5.3) | ND(5.2) | ND(20) | ND(53) | ND(5.1) |
| Bromomethane | ug/kg dw | ND(5.3) | ND(5.2) | ND(20) | ND(53) | ND(5.1) |
| Carbon Tetrachloride | ug/kg dw | ND(5.3) | ND(5.2) | ND(20) | ND(53) | ND(5.1) |
| Chlorobenzene | ug/kg dw | ND(5.3) | ND(5.2) | ND(20) | ND(53) | ND(5.1) |
| Chloroethane | ug/kg dw | ND(5.3) | ND(5.2) | ND(20) | ND(53) | ND(5.1) |
| Chloroform | ug/kg dw | ND(5.3) | ND(5.2) | ND(20) | ND(53) | ND(5.1) |
| Chloromethane | ug/kg dw | ND(5.3) | ND(5.2) | ND(20) | ND(53) | ND(5.1) |
| Dibromochloromethane | ug/kg dw | ND(5.3) | ND(5.2) | ND(20) | ND(53) | ND(5.1) |
| Dibromomethane | ug/kg dw | ND(5.3) | ND(5.2) | ND(20) | ND(53) | ND(5.1) |
| Dichlorodifluoromethane | ug/kg dw | ND(5.3) | ND(5.2) | ND(20) | ND(53) | ND(5.1) |
| Ethyl benzene | ug/kg dw | ND(5.3) | ND(5.2) | ND(20) | ND(53) | ND(5.1) |
| Hexachlorobutadiene | ug/kg dw | ND(5.3) | ND(5.2) | ND(20) | ND(53) | ND(5.1) |
| Isopropylbenzene | ug/kg dw | ND(5.3) | ND(5.2) | ND(20) | ND(53) | ND(5.1) |
| Methylene chloride | ug/kg dw | 5.8 | 7 | ND(20) | ND(53) | 9.7 |
| Naphthalene | ug/kg dw | 12 | ND(5.2) | ND(20) | ND(53) | ND(5.1) |
| Styrene | ug/kg dw | ND(5.3) | ND(5.2) | ND(20) | ND(53) | ND(5.1) |
| Tetrachloroethene | ug/kg dw | ND(5.3) | ND(5.2) | ND(20) | ND(53) | ND(5.1) |
| Toluene | ug/kg dw | ND(5.3) | ND(5.2) | ND(20) | ND(53) | 11 |
| Trichloroethene | ug/kg dw | ND(5.3) | ND(5.2) | ND(20) | ND(53) | ND(5.1) |
| Trichlorofluoromethane | ug/kg dw | ND(5.3) | ND(5.2) | ND(20) | ND(53) | ND(5.1) |
| Vinyl chloride | ug/kg dw | ND(5.3) | ND(5.2) | ND(20) | ND(53) | ND(5.1) |
| cis-1,2-Dichloroethene | ug/kg dw | ND(5.3) | ND(5.2) | ND(20) | ND(53) | ND(5.1) |
| cis-1,3-Dichloropropene | ug/kg dw | ND(5.3) | ND(5.2) | ND(20) | ND(53) | ND(5.1) |
| m & p-Xylene | ug/kg dw | ND(5.3) | ND(5.2) | ND(20) | ND(53) | ND(5.1) |
| n-Butylbenzene | ug/kg dw | ND(5.3) | ND(5.2) | ND(20) | ND(53) | ND(5.1) |
| n-Propylbenzene | ug/kg dw | ND(5.3) | ND(5.2) | ND(20) | ND(53) | ND(5.1) |
| o-Xylene | ug/kg dw | ND(5.3) | ND(5.2) | ND(20) | 1480 | ND(5.1) |
| p-Isopropyltoluene | ug/kg dw | ND(5.3) | ND(5.2) | 59 | 3810 | ND(5.1) |
| sec-Butylbenzene | ug/kg dw | ND(5.3) | ND(5.2) | ND(20) | ND(53) | ND(5.1) |
| tert-Butylbenzene | ug/kg dw | ND(5.3) | ND(5.2) | ND(20) | ND(53) | ND(5.1) |
| trans-1,2-Dichloroethene | ug/kg dw | ND(5.3) | ND(5.2) | ND(20) | ND(53) | ND(5.1) |

# 1994 North Airfield Soil Results

| Sample ID | | 94FWN030SL | 94FWN031SL | 94FWN032SL | 94FWN033SL | 94FWN034SL |
|---|---|---|---|---|---|---|
| Date | | 8/27/94 | 8/27/94 | 8/27/94 | 8/27/94 | 8/29/94 |
| Well / Boring ID | | WN1 | WN1 | WN1 | WN1 | WN2 |
| Depth | | 0 | 5 | 10 | 15 | 0 |
| Sample Type | Units | PR | PR | PR | PR | PR |
| trans-1,3-Dichloropropene | ug/kg dw | ND(5.3) | ND(5.2) | ND(20) | ND(53) | ND(5.1) |
| EPA 7421 | | | | | | |
| Lead (GFAA) | mg/kg dw | 17 | 5.5 | 3.4 | 3.8 | 22 |
| Other | | | | | | |
| Ammonia, as N (350.1) | mg/kg dw | NA | NA | NA | ND(5) | NA |
| Ammonia, as N (Water Soluble) (350.1) | mg/kg dw | NA | NA | NA | NA | NA |
| Nitrate, as N (Water Soluble)(353.1-354.1) | mg/kg dw | NA | NA | NA | ND(0.3) | NA |
| Total Kjeldahl Nitrogen (351.2) | mg/kg dw | NA | NA | NA | 79 | NA |
| Total Organic Carbon (415.1) | mg/kg dw | NA | NA | NA | 1930 | NA |
| Total Organic Carbon Quad 1 (415.1) | mg/L | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 2 (415.1) | mg/L | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 3 (415.1) | mg/L | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 4 (415.1) | mg/L | NA | NA | NA | NA | NA |

# 1994 North Airfield Soil Results

| Sample ID | 94FWN035SL | 94FWN036SL | 94FWN037SL | 94FWN039SL | 94FWN040SL | 94FWN041SL |
|---|---|---|---|---|---|---|
| Date | 8/29/94 | 8/29/94 | 8/29/94 | 8/29/94 | 8/29/94 | 8/29/94 |
| Well / Boring ID | WN2 | WN2 | WN2 | WN2 | BN1 | BN1 |
| Depth | 5 | 10 | 15 | 15 | 0 | 5 |
| Sample Type | PR | PR | PR | QC | PR | PR |
| M8100 | | | | | | |
| Diesel Range Organics | 60 | 94 | 3580 | 3040 | 28 | 574 |
| M8015 | | | | | | |
| Gasoline Range Organics | ND(1.1) | ND(1.1) | 1150 | 918 | ND(1) | 79 |
| 8260 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND(5.4) | ND(5.6) | ND(1400) | ND(710) | ND(5.1) | ND(320) |
| 1,1,1-Trichloroethane | ND(5.4) | ND(5.6) | ND(1400) | ND(710) | ND(5.1) | ND(320) |
| 1,1,2,2-Tetrachloroethane | ND(5.4) | ND(5.6) | ND(1400) | ND(710) | ND(5.1) | ND(320) |
| 1,1,2-Trichloroethane | ND(5.4) | ND(5.6) | ND(1400) | ND(710) | ND(5.1) | ND(320) |
| 1,1-Dichloroethane | ND(5.4) | ND(5.6) | ND(1400) | ND(710) | ND(5.1) | ND(320) |
| 1,1-Dichloroethene | ND(5.4) | ND(5.6) | ND(1400) | ND(710) | ND(5.1) | ND(320) |
| 1,1-Dichloropropene | ND(5.4) | ND(5.6) | ND(1400) | ND(710) | ND(5.1) | ND(320) |
| 1,2,3-Trichlorobenzene | ND(5.4) | ND(5.6) | ND(1400) | ND(710) | ND(5.1) | ND(320) |
| 1,2,3-Trichloropropane | ND(5.4) | ND(5.6) | ND(1400) | ND(710) | ND(5.1) | ND(320) |
| 1,2,4-Trichlorobenzene | ND(5.4) | ND(5.6) | ND(1400) | ND(710) | ND(5.1) | ND(320) |
| 1,2,4-Trimethylbenzene | ND(5.4) | ND(5.6) | 39200 | 9410 | ND(5.1) | 1350 |
| 1,2-Dibromo-3-chloropropane | ND(5.4) | ND(5.6) | ND(1400) | ND(710) | ND(5.1) | ND(320) |
| 1,2-Dibromoethane | ND(5.4) | ND(5.6) | ND(1400) | ND(710) | ND(5.1) | ND(320) |
| 1,2-Dichlorobenzene | ND(5.4) | ND(5.6) | ND(1400) | ND(710) | ND(5.1) | ND(320) |
| 1,2-Dichloroethane | ND(5.4) | ND(5.6) | ND(1400) | ND(710) | ND(5.1) | ND(320) |
| 1,2-Dichloropropane | ND(5.4) | ND(5.6) | ND(1400) | ND(710) | ND(5.1) | ND(320) |
| 1,3,5-Trimethylbenzene | ND(5.4) | ND(5.6) | 20800 | 6540 | ND(5.1) | 446 |
| 1,3-Dichlorobenzene | ND(5.4) | ND(5.6) | ND(1400) | ND(710) | ND(5.1) | ND(320) |
| 1,3-Dichloropropane | ND(5.4) | ND(5.6) | ND(1400) | ND(710) | ND(5.1) | ND(320) |
| 1,4-Dichlorobenzene | ND(5.4) | ND(5.6) | ND(1400) | ND(710) | ND(5.1) | ND(320) |
| 2,2-Dichloropropane | ND(5.4) | ND(5.6) | ND(1400) | ND(710) | ND(5.1) | ND(320) |
| 2-Butanone | ND(11) | ND(11) | ND(3000) | ND(1400) | ND(10) | ND(620) |
| 2-Chlorotoluene | ND(5.4) | ND(5.6) | ND(1400) | ND(710) | ND(5.1) | ND(320) |
| 4-Chlorotoluene | ND(5.4) | ND(5.6) | ND(1400) | ND(710) | ND(5.1) | ND(320) |
| Acetone | ND(11) | ND(11) | ND(3000) | ND(1400) | ND(10) | ND(620) |
| Benzene | ND(5.4) | ND(5.6) | ND(1400) | ND(710) | ND(5.1) | ND(320) |
| Bromobenzene | ND(5.4) | ND(5.6) | ND(1400) | ND(710) | ND(5.1) | ND(320) |
| Bromochloromethane | ND(5.4) | ND(5.6) | ND(1400) | ND(710) | ND(5.1) | ND(320) |
| Bromodichloromethane | ND(5.4) | ND(5.6) | ND(1400) | ND(710) | ND(5.1) | ND(320) |
| Bromoform | ND(5.4) | ND(5.6) | ND(1400) | ND(710) | ND(5.1) | ND(320) |
| Bromomethane | ND(5.4) | ND(5.6) | ND(1400) | ND(710) | ND(5.1) | ND(320) |
| Carbon Tetrachloride | ND(5.4) | ND(5.6) | ND(1400) | ND(710) | ND(5.1) | ND(320) |
| Chlorobenzene | ND(5.4) | ND(5.6) | ND(1400) | ND(710) | ND(5.1) | ND(320) |
| Chloroethane | ND(5.4) | ND(5.6) | ND(1400) | ND(710) | ND(5.1) | ND(320) |
| Chloroform | ND(5.4) | ND(5.6) | ND(1400) | ND(710) | ND(5.1) | ND(320) |
| Chloromethane | ND(5.4) | ND(5.6) | ND(1400) | ND(710) | ND(5.1) | ND(320) |
| Dibromochloromethane | ND(5.4) | ND(5.6) | ND(1400) | ND(710) | ND(5.1) | ND(320) |
| Dibromomethane | ND(5.4) | ND(5.6) | ND(1400) | ND(710) | ND(5.1) | ND(320) |
| Dichlorodifluoromethane | ND(5.4) | ND(5.6) | ND(1400) | ND(710) | ND(5.1) | ND(320) |
| Ethyl benzene | ND(5.4) | ND(5.6) | 2080 | ND(710) | ND(5.1) | ND(320) |
| Hexachlorobutadiene | ND(5.4) | ND(5.6) | ND(1400) | ND(710) | ND(5.1) | ND(320) |
| Isopropylbenzene | ND(5.4) | ND(5.6) | ND(1400) | ND(710) | ND(5.1) | ND(320) |
| Methylene chloride | 7.8 | 10 | ND(1400) | 976 | 7.7 | ND(320) |
| Naphthalene | ND(5.4) | ND(5.6) | 11500 | 2980 | ND(5.1) | 1860 |
| Styrene | ND(5.4) | ND(5.6) | ND(1400) | ND(710) | ND(5.1) | ND(320) |
| Tetrachloroethene | ND(5.4) | ND(5.6) | ND(1400) | ND(710) | ND(5.1) | ND(320) |
| Toluene | ND(5.4) | ND(5.6) | ND(1400) | ND(710) | ND(5.1) | ND(320) |
| Trichloroethene | ND(5.4) | ND(5.6) | ND(1400) | ND(710) | ND(5.1) | ND(320) |
| Trichlorofluoromethane | ND(5.4) | ND(5.6) | ND(1400) | ND(710) | ND(5.1) | ND(320) |
| Vinyl chloride | ND(5.4) | ND(5.6) | ND(1400) | ND(710) | ND(5.1) | ND(320) |
| cis-1,2-Dichloroethene | ND(5.4) | ND(5.6) | ND(1400) | ND(710) | ND(5.1) | ND(320) |
| cis-1,3-Dichloropropene | ND(5.4) | ND(5.6) | ND(1400) | ND(710) | ND(5.1) | ND(320) |
| m & p-Xylene | ND(5.4) | ND(5.6) | 17300 | 2760 | ND(5.1) | 715 |
| n-Butylbenzene | ND(5.4) | ND(5.6) | ND(1400) | ND(710) | ND(5.1) | ND(320) |
| n-Propylbenzene | ND(5.4) | ND(5.6) | 2420 | ND(710) | ND(5.1) | ND(320) |
| o-Xylene | ND(5.4) | ND(5.6) | 4840 | 1380 | ND(5.1) | ND(320) |
| p-Isopropyltoluene | ND(5.4) | ND(5.6) | ND(1400) | 2640 | ND(5.1) | ND(320) |
| sec-Butylbenzene | ND(5.4) | ND(5.6) | ND(1400) | ND(710) | ND(5.1) | ND(320) |
| tert-Butylbenzene | ND(5.4) | ND(5.6) | ND(1400) | ND(710) | ND(5.1) | ND(320) |
| trans-1,2-Dichloroethene | ND(5.4) | ND(5.6) | ND(1400) | ND(710) | ND(5.1) | ND(320) |

# 1994 North Airfield Soil Results

| Sample ID | 94FWN035SL | 94FWN036SL | 94FWN037SL | 94FWN039SL | 94FWN040SL | 94FWN041SL |
|---|---|---|---|---|---|---|
| Date | 8/29/94 | 8/29/94 | 8/29/94 | 8/29/94 | 8/29/94 | 8/29/94 |
| Well / Boring ID | WN2 | WN2 | WN2 | WN2 | BN1 | BN1 |
| Depth | 5 | 10 | 15 | 15 | 0 | 5 |
| Sample Type | PR | PR | PR | QC | PR | PR |
| trans-1,3-Dichloropropene | ND(5.4) | ND(5.6) | ND(1400) | ND(710) | ND(5.1) | ND(320) |
| EPA 7421 | | | | | | |
| Lead (GFAA) | 12 | 16 | 13 | 13 | 52 | 4.8 |
| Other | | | | | | |
| Ammonia, as N (350.1) | NA | NA | 14 | 11 | NA | 2.5 |
| Ammonia, as N (Water Soluble) (350.1) | NA | NA | NA | NA | NA | NA |
| Nitrate, as N (Water Soluble)(353.1-354.1) | NA | NA | ND(0.3) | ND(0.3) | NA | ND(0.3) |
| Total Kjeldahl Nitrogen (351.2) | NA | NA | 370 | 409 | NA | 91 |
| Total Organic Carbon (415.1) | NA | NA | | 5840 | NA | 2300 |
| Total Organic Carbon Quad 1 (415.1) | NA | NA | 6800 | NA | NA | NA |
| Total Organic Carbon Quad 2 (415.1) | NA | NA | 5400 | NA | NA | NA |
| Total Organic Carbon Quad 3 (415.1) | NA | NA | 5900 | NA | NA | NA |
| Total Organic Carbon Quad 4 (415.1) | NA | NA | 6400 | NA | NA | NA |

# 1994 North Airfield Soil Results

| Sample ID | 94FWN042SL | 94FWN043SL | 94FWN044SL | 94FWN045SL | 94FWN046SL | 94FWN047SL |
|---|---|---|---|---|---|---|
| Date | 8/29/94 | 8/29/94 | 8/29/94 | 8/29/94 | 8/29/94 | 8/29/94 |
| Well / Boring ID | BN1 | BN1 | BN2 | BN2 | BN2 | BN2 |
| Depth | 10 | 15 | 0 | 5 | 10 | 15 |
| Sample Type | PR | PR | PR | PR | PR | PR |
| M8100 | | | | | | |
| Diesel Range Organics | 538 | 12.4 | 1580 | 1260 | 8410 | 4830 |
| M8015 | | | | | | |
| Gasoline Range Organics | 157 | 3620 | 753 | 667 | 1150 | 6.4 |
| 8260 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND(52) | ND(6400) | ND(660) | ND(640) | ND(2600) | ND(6.6) |
| 1,1,1-Trichloroethane | ND(52) | ND(6400) | ND(660) | ND(640) | ND(2600) | ND(6.6) |
| 1,1,2,2-Tetrachloroethane | ND(52) | ND(6400) | ND(660) | ND(640) | ND(2600) | ND(6.6) |
| 1,1,2-Trichloroethane | ND(52) | ND(6400) | ND(660) | ND(640) | ND(2600) | ND(6.6) |
| 1,1-Dichloroethane | ND(52) | ND(6400) | ND(660) | ND(640) | ND(2600) | ND(6.6) |
| 1,1-Dichloroethene | ND(52) | ND(6400) | ND(660) | ND(640) | ND(2600) | ND(6.6) |
| 1,1-Dichloropropene | ND(52) | ND(6400) | ND(660) | ND(640) | ND(2600) | ND(6.6) |
| 1,2,3-Trichlorobenzene | ND(52) | ND(6400) | ND(660) | ND(640) | ND(2600) | ND(6.6) |
| 1,2,3-Trichloropropane | ND(52) | ND(6400) | ND(660) | ND(640) | ND(2600) | ND(6.6) |
| 1,2,4-Trichlorobenzene | ND(52) | ND(6400) | ND(660) | ND(640) | ND(2600) | ND(6.6) |
| 1,2,4-Trimethylbenzene | 397 | 124000 | 7850 | 31800 | 57600 | 358 |
| 1,2-Dibromo-3-chloropropane | ND(52) | ND(6400) | ND(660) | ND(640) | ND(2600) | ND(6.6) |
| 1,2-Dibromoethane | ND(52) | ND(6400) | ND(660) | ND(640) | ND(2600) | ND(6.6) |
| 1,2-Dichlorobenzene | ND(52) | ND(6400) | ND(660) | ND(640) | ND(2600) | ND(6.6) |
| 1,2-Dichloroethane | ND(52) | ND(6400) | ND(660) | ND(640) | ND(2600) | ND(6.6) |
| 1,2-Dichloropropane | ND(52) | ND(6400) | ND(660) | ND(640) | ND(2600) | ND(6.6) |
| 1,3,5-Trimethylbenzene | 104 | 43900 | 4350 | 10200 | 17800 | 146 |
| 1,3-Dichlorobenzene | ND(52) | ND(6400) | ND(660) | ND(640) | ND(2600) | ND(6.6) |
| 1,3-Dichloropropane | ND(52) | ND(6400) | ND(660) | ND(640) | ND(2600) | ND(6.6) |
| 1,4-Dichlorobenzene | ND(52) | ND(6400) | ND(660) | ND(640) | ND(2600) | ND(6.6) |
| 2,2-Dichloropropane | ND(52) | ND(6400) | ND(660) | ND(640) | ND(2600) | ND(6.6) |
| 2-Butanone | ND(100) | ND(13000) | ND(1400) | ND(1200) | ND(5000) | 18 |
| 2-Chlorotoluene | ND(52) | ND(6400) | ND(660) | ND(640) | ND(2600) | ND(6.6) |
| 4-Chlorotoluene | ND(52) | ND(6400) | ND(660) | ND(640) | ND(2600) | ND(6.6) |
| Acetone | ND(100) | ND(13000) | ND(1400) | ND(1200) | ND(5000) | ND(13) |
| Benzene | ND(52) | 9170 | ND(660) | ND(640) | ND(2600) | 62 |
| Bromobenzene | ND(52) | ND(6400) | ND(660) | ND(640) | ND(2600) | ND(6.6) |
| Bromochloromethane | ND(52) | ND(6400) | ND(660) | ND(640) | ND(2600) | ND(6.6) |
| Bromodichloromethane | ND(52) | ND(6400) | ND(660) | ND(640) | ND(2600) | ND(6.6) |
| Bromoform | ND(52) | ND(6400) | ND(660) | ND(640) | ND(2600) | ND(6.6) |
| Bromomethane | ND(52) | ND(6400) | ND(660) | ND(640) | ND(2600) | ND(6.6) |
| Carbon Tetrachloride | ND(52) | ND(6400) | ND(660) | ND(640) | ND(2600) | ND(6.6) |
| Chlorobenzene | ND(52) | ND(6400) | ND(660) | ND(640) | ND(2600) | ND(6.6) |
| Chloroethane | ND(52) | ND(6400) | ND(660) | ND(640) | ND(2600) | ND(6.6) |
| Chloroform | ND(52) | ND(6400) | ND(660) | ND(640) | ND(2600) | ND(6.6) |
| Chloromethane | ND(52) | ND(6400) | ND(660) | ND(640) | ND(2600) | ND(6.6) |
| Dibromochloromethane | ND(52) | ND(6400) | ND(660) | ND(640) | ND(2600) | ND(6.6) |
| Dibromomethane | ND(52) | ND(6400) | ND(660) | ND(640) | ND(2600) | ND(6.6) |
| Dichlorodifluoromethane | ND(52) | ND(6400) | ND(660) | ND(640) | ND(2600) | ND(6.6) |
| Ethyl benzene | ND(52) | 22000 | ND(660) | 3080 | 6810 | 18 |
| Hexachlorobutadiene | ND(52) | ND(6400) | ND(660) | ND(640) | ND(2600) | ND(6.6) |
| Isopropylbenzene | ND(52) | ND(6400) | ND(660) | 1020 | ND(2600) | 9.7 |
| Methylene chloride | ND(52) | 8780 | 1030 | 902 | 3140 | ND(6.6) |
| Naphthalene | 920 | 50400 | 4240 | 9640 | 23100 | 570 |
| Styrene | ND(52) | ND(6400) | ND(660) | ND(640) | ND(2600) | ND(6.6) |
| Tetrachloroethene | ND(52) | ND(6400) | ND(660) | ND(640) | ND(2600) | ND(6.6) |
| Toluene | ND(52) | 105000 | 2440 | 6870 | 27200 | 159 |
| Trichloroethene | ND(52) | ND(6400) | ND(660) | ND(640) | ND(2600) | ND(6.6) |
| Trichlorofluoromethane | ND(52) | ND(6400) | ND(660) | ND(640) | ND(2600) | ND(6.6) |
| Vinyl chloride | ND(52) | ND(6400) | ND(660) | ND(640) | ND(2600) | ND(6.6) |
| cis-1,2-Dichloroethene | ND(52) | ND(6400) | ND(660) | ND(640) | ND(2600) | ND(6.6) |
| cis-1,3-Dichloropropene | ND(52) | ND(6400) | ND(660) | ND(640) | ND(2600) | ND(6.6) |
| m & p-Xylene | 71 | 155000 | 7320 | 41000 | 67100 | 278 |
| n-Butylbenzene | ND(52) | ND(6400) | ND(660) | ND(640) | ND(2600) | ND(6.6) |
| n-Propylbenzene | ND(52) | 11400 | ND(660) | 2260 | 4190 | 16 |
| o-Xylene | ND(52) | 59400 | 3500 | 15400 | 26200 | 172 |
| p-Isopropyltoluene | ND(52) | 15500 | 1800 | 4310 | 9960 | 76 |
| sec-Butylbenzene | ND(52) | ND(6400) | ND(660) | 1950 | 3770 | 22 |
| tert-Butylbenzene | ND(52) | ND(6400) | ND(660) | ND(640) | ND(2600) | ND(6.6) |
| trans-1,2-Dichloroethene | ND(52) | ND(6400) | ND(660) | ND(640) | ND(2600) | ND(6.6) |

# 1994 North Airfield Soil Results

| Sample ID | 94FWN042SL | 94FWN043SL | 94FWN044SL | 94FWN045SL | 94FWN046SL | 94FWN047SL |
|---|---|---|---|---|---|---|
| Date | 8/29/94 | 8/29/94 | 8/29/94 | 8/29/94 | 8/29/94 | 8/29/94 |
| Well / Boring ID | BN1 | BN1 | BN2 | BN2 | BN2 | BN2 |
| Depth | 10 | 15 | 0 | 5 | 10 | 15 |
| Sample Type | PR | PR | PR | PR | PR | PR |
| trans-1,3-Dichloropropene | ND(52) | ND(6400) | ND(660) | ND(640) | ND(2600) | ND(6.6) |
| EPA 7421 | | | | | | |
| Lead (GFAA) | 3.5 | 5.8 | 61 | 9 | 10 | 5 |
| Other | | | | | | |
| Ammonia, as N (350.1) | NA | NA | NA | NA | NA | 5.7 |
| Ammonia, as N (Water Soluble) (350.1) | NA | NA | NA | NA | NA | NA |
| Nitrate, as N (Water Soluble)(353.1-354.1) | NA | NA | NA | NA | NA | 0.5 |
| Total Kjeldahl Nitrogen (351.2) | NA | NA | NA | NA | NA | 66 |
| Total Organic Carbon (415.1) | NA | NA | NA | NA | NA | 1300 |
| Total Organic Carbon Quad 1 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 2 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 3 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 4 (415.1) | NA | NA | NA | NA | NA | NA |

# 1994 North Airfield Soil Results

| Sample ID | 94FWN048SL | 94FWN049SL | 94FWN050SL | 94FWN051SL | 94FWN052SL | 94FWN053SL |
|---|---|---|---|---|---|---|
| Date | 8/29/94 | 8/29/94 | 8/29/94 | 8/29/94 | 9/3/94 | 9/3/94 |
| Well / Boring ID | BN3 | BN3 | BN3 | BN3 | WN4 | WN4 |
| Depth | 0 | 5 | 10 | 15 | 0 | 5 |
| Sample Type | PR | PR | PR | PR | PR | PR |
| M8100 | | | | | | |
| Diesel Range Organics | 23000 | 684 | 7640 | 10400 | 21 | ND(4.7) |
| M8015 | | | | | | |
| Gasoline Range Organics | 1240 | 1330 | 1550 | 1320 | ND(1) | ND(1.2) |
| 8260 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND(62) | ND(320) | ND(6000) | ND(66) | ND(5.3) | ND(5.8) |
| 1,1,1-Trichloroethane | ND(62) | ND(320) | ND(6000) | ND(66) | ND(5.3) | ND(5.8) |
| 1,1,2,2-Tetrachloroethane | ND(62) | ND(320) | ND(6000) | ND(66) | ND(5.3) | ND(5.8) |
| 1,1,2-Trichloroethane | ND(62) | ND(320) | ND(6000) | ND(66) | ND(5.3) | ND(5.8) |
| 1,1-Dichloroethane | ND(62) | ND(320) | ND(6000) | ND(66) | ND(5.3) | ND(5.8) |
| 1,1-Dichloroethene | ND(62) | ND(320) | ND(6000) | ND(66) | ND(5.3) | ND(5.8) |
| 1,1-Dichloropropene | ND(62) | ND(320) | ND(6000) | ND(66) | ND(5.3) | ND(5.8) |
| 1,2,3-Trichlorobenzene | ND(62) | ND(320) | ND(6000) | ND(66) | ND(5.3) | ND(5.8) |
| 1,2,3-Trichloropropane | ND(62) | ND(320) | ND(6000) | ND(66) | ND(5.3) | ND(5.8) |
| 1,2,4-Trichlorobenzene | ND(62) | ND(320) | ND(6000) | ND(66) | ND(5.3) | ND(5.8) |
| 1,2,4-Trimethylbenzene | 19800 | 10100 | 40500 | 1850 | 5.7 | ND(5.8) |
| 1,2-Dibromo-3-chloropropane | ND(62) | ND(320) | ND(6000) | ND(66) | ND(5.3) | ND(5.8) |
| 1,2-Dibromoethane | ND(62) | ND(320) | ND(6000) | ND(66) | ND(5.3) | ND(5.8) |
| 1,2-Dichlorobenzene | ND(62) | ND(320) | ND(6000) | ND(66) | ND(5.3) | ND(5.8) |
| 1,2-Dichloroethane | ND(62) | ND(320) | ND(6000) | ND(66) | ND(5.3) | ND(5.8) |
| 1,2-Dichloropropane | ND(62) | ND(320) | ND(6000) | ND(66) | ND(5.3) | ND(5.8) |
| 1,3,5-Trimethylbenzene | 9760 | 3280 | 13100 | 689 | ND(5.3) | ND(5.8) |
| 1,3-Dichlorobenzene | ND(62) | ND(320) | ND(6000) | ND(66) | ND(5.3) | ND(5.8) |
| 1,3-Dichloropropane | ND(62) | ND(320) | ND(6000) | ND(66) | ND(5.3) | ND(5.8) |
| 1,4-Dichlorobenzene | ND(62) | ND(320) | ND(6000) | ND(66) | ND(5.3) | ND(5.8) |
| 2,2-Dichloropropane | ND(62) | ND(320) | ND(6000) | ND(66) | ND(5.3) | ND(5.8) |
| 2-Butanone | ND(120) | ND(620) | ND(12000) | ND(130) | ND(10) | ND(12) |
| 2-Chlorotoluene | ND(62) | ND(320) | ND(6000) | ND(66) | ND(5.3) | ND(5.8) |
| 4-Chlorotoluene | ND(62) | ND(320) | ND(6000) | ND(66) | ND(5.3) | ND(5.8) |
| Acetone | ND(120) | ND(620) | ND(12000) | ND(130) | ND(10) | ND(12) |
| Benzene | 1730 | ND(320) | ND(6000) | 516 | ND(5.3) | ND(5.8) |
| Bromobenzene | ND(62) | ND(320) | ND(6000) | ND(66) | ND(5.3) | ND(5.8) |
| Bromochloromethane | ND(62) | ND(320) | ND(6000) | ND(66) | ND(5.3) | ND(5.8) |
| Bromodichloromethane | ND(62) | ND(320) | ND(6000) | ND(66) | ND(5.3) | ND(5.8) |
| Bromoform | ND(62) | ND(320) | ND(6000) | ND(66) | ND(5.3) | ND(5.8) |
| Bromomethane | ND(62) | ND(320) | ND(6000) | ND(66) | ND(5.3) | ND(5.8) |
| Carbon Tetrachloride | ND(62) | ND(320) | ND(6000) | ND(66) | ND(5.3) | ND(5.8) |
| Chlorobenzene | ND(62) | ND(320) | ND(6000) | ND(66) | ND(5.3) | ND(5.8) |
| Chloroethane | ND(62) | ND(320) | ND(6000) | ND(66) | ND(5.3) | ND(5.8) |
| Chloroform | ND(62) | ND(320) | ND(6000) | ND(66) | ND(5.3) | ND(5.8) |
| Chloromethane | ND(62) | ND(320) | ND(6000) | ND(66) | ND(5.3) | ND(5.8) |
| Dibromochloromethane | ND(62) | ND(320) | ND(6000) | ND(66) | ND(5.3) | ND(5.8) |
| Dibromomethane | ND(62) | ND(320) | ND(6000) | ND(66) | ND(5.3) | ND(5.8) |
| Dichlorodifluoromethane | ND(62) | ND(320) | ND(6000) | ND(66) | ND(5.3) | ND(5.8) |
| Ethyl benzene | 5070 | 932 | 7500 | 397 | ND(5.3) | ND(5.8) |
| Hexachlorobutadiene | ND(62) | ND(320) | ND(6000) | ND(66) | ND(5.3) | ND(5.8) |
| Isopropylbenzene | 766 | ND(320) | ND(6000) | 781 | ND(5.3) | ND(5.8) |
| Methylene chloride | ND(62) | ND(320) | 7260 | ND(66) | 6.6 | 6.7 |
| Naphthalene | 3580 | 3180 | 28600 | 1110 | ND(5.3) | ND(5.8) |
| Styrene | ND(62) | ND(320) | ND(6000) | ND(66) | ND(5.3) | ND(5.8) |
| Tetrachloroethene | ND(62) | ND(320) | ND(6000) | ND(66) | ND(5.3) | ND(5.8) |
| Toluene | 26000 | 1740 | 23800 | 1070 | ND(5.3) | ND(5.8) |
| Trichloroethene | ND(62) | ND(320) | ND(6000) | ND(66) | ND(5.3) | ND(5.8) |
| Trichlorofluoromethane | ND(62) | ND(320) | ND(6000) | ND(66) | ND(5.3) | ND(5.8) |
| Vinyl chloride | ND(62) | ND(320) | ND(6000) | ND(66) | ND(5.3) | ND(5.8) |
| cis-1,2-Dichloroethene | ND(62) | ND(320) | ND(6000) | ND(66) | ND(5.3) | ND(5.8) |
| cis-1,3-Dichloropropene | ND(62) | ND(320) | ND(6000) | ND(66) | ND(5.3) | ND(5.8) |
| m & p-Xylene | 33400 | 5530 | 45200 | 980 | ND(5.3) | ND(5.8) |
| n-Butylbenzene | ND(62) | ND(320) | ND(6000) | ND(66) | ND(5.3) | ND(5.8) |
| n-Propylbenzene | 1610 | 891 | ND(6000) | 146 | ND(5.3) | ND(5.8) |
| o-Xylene | 16100 | 2250 | 17800 | 1310 | ND(5.3) | ND(5.8) |
| p-Isopropyltoluene | 692 | 953 | ND(6000) | 238 | ND(5.3) | ND(5.8) |
| sec-Butylbenzene | ND(62) | ND(320) | ND(6000) | ND(66) | ND(5.3) | ND(5.8) |
| tert-Butylbenzene | ND(62) | ND(320) | ND(6000) | ND(66) | ND(5.3) | ND(5.8) |
| trans-1,2-Dichloroethene | ND(62) | ND(320) | ND(6000) | ND(66) | ND(5.3) | ND(5.8) |

# 1994 North Airfield Soil Results

| Sample ID | 94FWN048SL | 94FWN049SL | 94FWN050SL | 94FWN051SL | 94FWN052SL | 94FWN053SL |
|---|---|---|---|---|---|---|
| Date | 8/29/94 | 8/29/94 | 8/29/94 | 8/29/94 | 9/3/94 | 9/3/94 |
| Well / Boring ID | BN3 | BN3 | BN3 | BN3 | WN4 | WN4 |
| Depth | 0 | 5 | 10 | 15 | 0 | 5 |
| Sample Type | PR | PR | PR | PR | PR | PR |
| trans-1,3-Dichloropropene | ND(62) | ND(320) | ND(6000) | ND(66) | ND(5.3) | ND(5.8) |
| EPA 7421 | | | | | | |
| Lead (GFAA) | 38 | 22 | 10 | 4.4 | 20 | 8.2 |
| Other | | | | | | |
| Ammonia, as N (350.1) | NA | NA | NA | 7.3 | NA | NA |
| Ammonia, as N (Water Soluble) (350.1) | NA | NA | NA | NA | NA | NA |
| Nitrate, as N (Water Soluble)(353.1-354.1) | NA | NA | NA | ND(0.3) | NA | NA |
| Total Kjeldahl Nitrogen (351.2) | NA | NA | NA | 46 | NA | NA |
| Total Organic Carbon (415.1) | NA | NA | NA | 1770 | NA | NA |
| Total Organic Carbon Quad 1 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 2 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 3 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 4 (415.1) | NA | NA | NA | NA | NA | NA |

# 1994 North Airfield Soil Results

| Sample ID | 94FWN054SL | 94FWN055SL | 94FWN057SL | 94FWN058SL | 94FWN059SL | 94FWN060SL |
|---|---|---|---|---|---|---|
| Date | 9/3/94 | 9/3/94 | 9/3/94 | 9/3/94 | 9/3/94 | 9/3/94 |
| Well / Boring ID | WN4 | WN4 | WN4 | WN4 | WN5 | WN5 |
| Depth | 10 | 15 | 15 | 20 | 0 | 5 |
| Sample Type | PR | PR | QC | PR | PR | PR |
| M8100 | | | | | | |
| Diesel Range Organics | ND(4.1) | ND(4.5) | ND(4.6) | ND(4.5) | 11 | ND(5) |
| M8015 | | | | | | |
| Gasoline Range Organics | ND(1) | ND(1.1) | ND(1.1) | ND(1.1) | ND(1) | ND(1) |
| 8260 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND(5.1) | ND(5.6) | ND(5.5) | ND(5.5) | ND(5.7) | ND(6.4) |
| 1,1,1-Trichloroethane | ND(5.1) | ND(5.6) | ND(5.5) | ND(5.5) | ND(5.7) | ND(6.4) |
| 1,1,2,2-Tetrachloroethane | ND(5.1) | ND(5.6) | ND(5.5) | ND(5.5) | ND(5.7) | ND(6.4) |
| 1,1,2-Trichloroethane | ND(5.1) | ND(5.6) | ND(5.5) | ND(5.5) | ND(5.7) | ND(6.4) |
| 1,1-Dichloroethane | ND(5.1) | ND(5.6) | ND(5.5) | ND(5.5) | ND(5.7) | ND(6.4) |
| 1,1-Dichloroethene | ND(5.1) | ND(5.6) | ND(5.5) | ND(5.5) | ND(5.7) | ND(6.4) |
| 1,1-Dichloropropene | ND(5.1) | ND(5.6) | ND(5.5) | ND(5.5) | ND(5.7) | ND(6.4) |
| 1,2,3-Trichlorobenzene | ND(5.1) | ND(5.6) | ND(5.5) | ND(5.5) | ND(5.7) | ND(6.4) |
| 1,2,3-Trichloropropane | ND(5.1) | ND(5.6) | ND(5.5) | ND(5.5) | ND(5.7) | ND(6.4) |
| 1,2,4-Trichlorobenzene | ND(5.1) | ND(5.6) | ND(5.5) | ND(5.5) | ND(5.7) | ND(6.4) |
| 1,2,4-Trimethylbenzene | ND(5.1) | ND(5.6) | ND(5.5) | ND(5.5) | ND(5.7) | ND(6.4) |
| 1,2-Dibromo-3-chloropropane | ND(5.1) | ND(5.6) | ND(5.5) | ND(5.5) | ND(5.7) | ND(6.4) |
| 1,2-Dibromoethane | ND(5.1) | ND(5.6) | ND(5.5) | ND(5.5) | ND(5.7) | ND(6.4) |
| 1,2-Dichlorobenzene | ND(5.1) | ND(5.6) | ND(5.5) | ND(5.5) | ND(5.7) | ND(6.4) |
| 1,2-Dichloroethane | ND(5.1) | ND(5.6) | ND(5.5) | ND(5.5) | ND(5.7) | ND(6.4) |
| 1,2-Dichloropropane | ND(5.1) | ND(5.6) | ND(5.5) | ND(5.5) | ND(5.7) | ND(6.4) |
| 1,3,5-Trimethylbenzene | ND(5.1) | ND(5.6) | ND(5.5) | ND(5.5) | ND(5.7) | ND(6.4) |
| 1,3-Dichlorobenzene | ND(5.1) | ND(5.6) | ND(5.5) | ND(5.5) | ND(5.7) | ND(6.4) |
| 1,3-Dichloropropane | ND(5.1) | ND(5.6) | ND(5.5) | ND(5.5) | ND(5.7) | ND(6.4) |
| 1,4-Dichlorobenzene | ND(5.1) | ND(5.6) | ND(5.5) | ND(5.5) | ND(5.7) | ND(6.4) |
| 2,2-Dichloropropane | ND(5.1) | ND(5.6) | ND(5.5) | ND(5.5) | ND(5.7) | ND(6.4) |
| 2-Butanone | ND(10) | ND(11) | ND(11) | ND(11) | ND(11) | ND(13) |
| 2-Chlorotoluene | ND(5.1) | ND(5.6) | ND(5.5) | ND(5.5) | ND(5.7) | ND(6.4) |
| 4-Chlorotoluene | ND(5.1) | ND(5.6) | ND(5.5) | ND(5.5) | ND(5.7) | ND(6.4) |
| Acetone | ND(10) | 20 | ND(11) | ND(11) | ND(11) | ND(13) |
| Benzene | ND(5.1) | ND(5.6) | ND(5.5) | ND(5.5) | ND(5.7) | ND(6.4) |
| Bromobenzene | ND(5.1) | ND(5.6) | ND(5.5) | ND(5.5) | ND(5.7) | ND(6.4) |
| Bromochloromethane | ND(5.1) | ND(5.6) | ND(5.5) | ND(5.5) | ND(5.7) | ND(6.4) |
| Bromodichloromethane | ND(5.1) | ND(5.6) | ND(5.5) | ND(5.5) | ND(5.7) | ND(6.4) |
| Bromoform | ND(5.1) | ND(5.6) | ND(5.5) | ND(5.5) | ND(5.7) | ND(6.4) |
| Bromomethane | ND(5.1) | ND(5.6) | ND(5.5) | ND(5.5) | ND(5.7) | ND(6.4) |
| Carbon Tetrachloride | ND(5.1) | ND(5.6) | ND(5.5) | ND(5.5) | ND(5.7) | ND(6.4) |
| Chlorobenzene | ND(5.1) | ND(5.6) | ND(5.5) | ND(5.5) | ND(5.7) | ND(6.4) |
| Chloroethane | ND(5.1) | ND(5.6) | ND(5.5) | ND(5.5) | ND(5.7) | ND(6.4) |
| Chloroform | ND(5.1) | ND(5.6) | ND(5.5) | ND(5.5) | ND(5.7) | ND(6.4) |
| Chloromethane | ND(5.1) | ND(5.6) | ND(5.5) | ND(5.5) | ND(5.7) | ND(6.4) |
| Dibromochloromethane | ND(5.1) | ND(5.6) | ND(5.5) | ND(5.5) | ND(5.7) | ND(6.4) |
| Dibromomethane | ND(5.1) | ND(5.6) | ND(5.5) | ND(5.5) | ND(5.7) | ND(6.4) |
| Dichlorodifluoromethane | ND(5.1) | ND(5.6) | ND(5.5) | ND(5.5) | ND(5.7) | ND(6.4) |
| Ethyl benzene | ND(5.1) | ND(5.6) | ND(5.5) | ND(5.5) | ND(5.7) | ND(6.4) |
| Hexachlorobutadiene | ND(5.1) | ND(5.6) | ND(5.5) | ND(5.5) | ND(5.7) | ND(6.4) |
| Isopropylbenzene | ND(5.1) | ND(5.6) | ND(5.5) | ND(5.5) | ND(5.7) | ND(6.4) |
| Methylene chloride | 5.4 | 10 | 10 | 11 | 13 | 8.6 |
| Naphthalene | ND(5.1) | ND(5.6) | ND(5.5) | ND(5.5) | ND(5.7) | ND(6.4) |
| Styrene | ND(5.1) | ND(5.6) | ND(5.5) | ND(5.5) | ND(5.7) | ND(6.4) |
| Tetrachloroethene | ND(5.1) | ND(5.6) | ND(5.5) | ND(5.5) | ND(5.7) | ND(6.4) |
| Toluene | ND(5.1) | ND(5.6) | ND(5.5) | ND(5.5) | ND(5.7) | ND(6.4) |
| Trichloroethene | ND(5.1) | ND(5.6) | ND(5.5) | ND(5.5) | ND(5.7) | ND(6.4) |
| Trichlorofluoromethane | ND(5.1) | ND(5.6) | ND(5.5) | ND(5.5) | ND(5.7) | ND(6.4) |
| Vinyl chloride | ND(5.1) | ND(5.6) | ND(5.5) | ND(5.5) | ND(5.7) | ND(6.4) |
| cis-1,2-Dichloroethene | ND(5.1) | ND(5.6) | ND(5.5) | ND(5.5) | ND(5.7) | ND(6.4) |
| cis-1,3-Dichloropropene | ND(5.1) | ND(5.6) | ND(5.5) | ND(5.5) | ND(5.7) | ND(6.4) |
| m & p-Xylene | ND(5.1) | ND(5.6) | ND(5.5) | ND(5.5) | ND(5.7) | ND(6.4) |
| n-Butylbenzene | ND(5.1) | ND(5.6) | ND(5.5) | ND(5.5) | ND(5.7) | ND(6.4) |
| n-Propylbenzene | ND(5.1) | ND(5.6) | ND(5.5) | ND(5.5) | ND(5.7) | ND(6.4) |
| o-Xylene | ND(5.1) | ND(5.6) | ND(5.5) | ND(5.5) | ND(5.7) | ND(6.4) |
| p-Isopropyltoluene | ND(5.1) | ND(5.6) | ND(5.5) | ND(5.5) | ND(5.7) | ND(6.4) |
| sec-Butylbenzene | ND(5.1) | ND(5.6) | ND(5.5) | ND(5.5) | ND(5.7) | ND(6.4) |
| tert-Butylbenzene | ND(5.1) | ND(5.6) | ND(5.5) | ND(5.5) | ND(5.7) | ND(6.4) |
| trans-1,2-Dichloroethene | ND(5.1) | ND(5.6) | ND(5.5) | ND(5.5) | ND(5.7) | ND(6.4) |

# 1994 North Airfield Soil Results

| Sample ID | 94FWN054SL | 94FWN055SL | 94FWN057SL | 94FWN058SL | 94FWN059SL | 94FWN060SL |
|---|---|---|---|---|---|---|
| Date | 9/3/94 | 9/3/94 | 9/3/94 | 9/3/94 | 9/3/94 | 9/3/94 |
| Well / Boring ID | WN4 | WN4 | WN4 | WN4 | WN5 | WN5 |
| Depth | 10 | 15 | 15 | 20 | 0 | 5 |
| Sample Type | PR | PR | QC | PR | PR | PR |
| trans-1,3-Dichloropropene | ND(5.1) | ND(5.6) | ND(5.5) | ND(5.5) | ND(5.7) | ND(6.4) |
| EPA 7421 | | | | | | |
| Lead (GFAA) | 3.3 | 2.7 | 2.8 | 3.5 | 6.5 | 7 |
| Other | | | | | | |
| Ammonia, as N (350.1) | NA | ND(5) | 9.7 | NA | NA | NA |
| Ammonia, as N (Water Soluble) (350.1) | NA | NA | NA | NA | NA | NA |
| Nitrate, as N (Water Soluble)(353.1-354.1) | NA | ND(0.3) | ND(0.3) | NA | NA | NA |
| Total Kjeldahl Nitrogen (351.2) | NA | 31 | 43 | NA | NA | NA |
| Total Organic Carbon (415.1) | NA | 1100 | 626 | NA | NA | NA |
| Total Organic Carbon Quad 1 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 2 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 3 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 4 (415.1) | NA | NA | NA | NA | NA | NA |

# 1994 North Airfield Soil Results

| Sample ID | 94FWN061SL | 94FWN062SL | 94FWN063SL | 94FWN064SL | 94FWN065SL | 94FWN066SL |
|---|---|---|---|---|---|---|
| Date | 9/3/94 | 9/3/94 | 9/3/94 | 9/6/94 | 9/6/94 | 9/6/94 |
| Well / Boring ID | WN5 | WN5 | WN5 | WN3 | WN3 | WN3 |
| Depth | 10 | 15 | 20 | 0 | 5 | 10 |
| Sample Type | PR | PR | PR | PR | PR | PR |
| M8100 | | | | | | |
| Diesel Range Organics | ND(4.2) | 94 | ND(4.8) | 223 | ND(4.3) | ND(4.2) |
| M8015 | | | | | | |
| Gasoline Range Organics | ND(1) | 536 | 110 | ND(1) | ND(1) | ND(1) |
| 8260 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND(5.6) | ND(5.4) | ND(5.5) | ND(5.3) | ND(5.5) | ND(5.3) |
| 1,1,1-Trichloroethane | ND(5.6) | ND(5.4) | ND(5.5) | ND(5.3) | ND(5.5) | ND(5.3) |
| 1,1,2,2-Tetrachloroethane | ND(5.6) | ND(5.4) | ND(5.5) | ND(5.3) | ND(5.5) | ND(5.3) |
| 1,1,2-Trichloroethane | ND(5.6) | ND(5.4) | ND(5.5) | ND(5.3) | ND(5.5) | ND(5.3) |
| 1,1-Dichloroethane | ND(5.6) | ND(5.4) | ND(5.5) | ND(5.3) | ND(5.5) | ND(5.3) |
| 1,1-Dichloroethene | ND(5.6) | ND(5.4) | ND(5.5) | ND(5.3) | ND(5.5) | ND(5.3) |
| 1,1-Dichloropropene | ND(5.6) | ND(5.4) | ND(5.5) | ND(5.3) | ND(5.5) | ND(5.3) |
| 1,2,3-Trichlorobenzene | ND(5.6) | ND(5.4) | ND(5.5) | ND(5.3) | ND(5.5) | ND(5.3) |
| 1,2,3-Trichloropropane | ND(5.6) | ND(5.4) | ND(5.5) | ND(5.3) | ND(5.5) | ND(5.3) |
| 1,2,4-Trichlorobenzene | ND(5.6) | ND(5.4) | ND(5.5) | ND(5.3) | ND(5.5) | ND(5.3) |
| 1,2,4-Trimethylbenzene | ND(5.6) | ND(5.4) | ND(5.5) | ND(5.3) | ND(5.5) | ND(5.3) |
| 1,2-Dibromo-3-chloropropane | ND(5.6) | ND(5.4) | ND(5.5) | ND(5.3) | ND(5.5) | ND(5.3) |
| 1,2-Dibromoethane | ND(5.6) | ND(5.4) | ND(5.5) | ND(5.3) | ND(5.5) | ND(5.3) |
| 1,2-Dichlorobenzene | ND(5.6) | ND(5.4) | ND(5.5) | ND(5.3) | ND(5.5) | ND(5.3) |
| 1,2-Dichloroethane | ND(5.6) | ND(5.4) | ND(5.5) | ND(5.3) | ND(5.5) | ND(5.3) |
| 1,2-Dichloropropane | ND(5.6) | ND(5.4) | ND(5.5) | ND(5.3) | ND(5.5) | ND(5.3) |
| 1,3,5-Trimethylbenzene | ND(5.6) | ND(5.4) | ND(5.5) | ND(5.3) | ND(5.5) | ND(5.3) |
| 1,3-Dichlorobenzene | ND(5.6) | ND(5.4) | ND(5.5) | ND(5.3) | ND(5.5) | ND(5.3) |
| 1,3-Dichloropropane | ND(5.6) | ND(5.4) | ND(5.5) | ND(5.3) | ND(5.5) | ND(5.3) |
| 1,4-Dichlorobenzene | ND(5.6) | ND(5.4) | ND(5.5) | ND(5.3) | ND(5.5) | ND(5.3) |
| 2,2-Dichloropropane | ND(5.6) | ND(5.4) | ND(5.5) | ND(5.3) | ND(5.5) | ND(5.3) |
| 2-Butanone | ND(11) | ND(11) | ND(11) | ND(10) | ND(11) | ND(10) |
| 2-Chlorotoluene | ND(5.6) | ND(5.4) | ND(5.5) | ND(5.3) | ND(5.5) | ND(5.3) |
| 4-Chlorotoluene | ND(5.6) | ND(5.4) | ND(5.5) | ND(5.3) | ND(5.5) | ND(5.3) |
| Acetone | ND(11) | ND(11) | 16 | ND(10) | ND(11) | ND(10) |
| Benzene | ND(5.6) | ND(5.4) | ND(5.5) | ND(5.3) | ND(5.5) | ND(5.3) |
| Bromobenzene | ND(5.6) | ND(5.4) | ND(5.5) | ND(5.3) | ND(5.5) | ND(5.3) |
| Bromochloromethane | ND(5.6) | ND(5.4) | ND(5.5) | ND(5.3) | ND(5.5) | ND(5.3) |
| Bromodichloromethane | ND(5.6) | ND(5.4) | ND(5.5) | ND(5.3) | ND(5.5) | ND(5.3) |
| Bromoform | ND(5.6) | ND(5.4) | ND(5.5) | ND(5.3) | ND(5.5) | ND(5.3) |
| Bromomethane | ND(5.6) | ND(5.4) | ND(5.5) | ND(5.3) | ND(5.5) | ND(5.3) |
| Carbon Tetrachloride | ND(5.6) | ND(5.4) | ND(5.5) | ND(5.3) | ND(5.5) | ND(5.3) |
| Chlorobenzene | ND(5.6) | ND(5.4) | ND(5.5) | ND(5.3) | ND(5.5) | ND(5.3) |
| Chloroethane | ND(5.6) | ND(5.4) | ND(5.5) | ND(5.3) | ND(5.5) | ND(5.3) |
| Chloroform | ND(5.6) | ND(5.4) | ND(5.5) | ND(5.3) | ND(5.5) | ND(5.3) |
| Chloromethane | ND(5.6) | ND(5.4) | ND(5.5) | ND(5.3) | ND(5.5) | ND(5.3) |
| Dibromochloromethane | ND(5.6) | ND(5.4) | ND(5.5) | ND(5.3) | ND(5.5) | ND(5.3) |
| Dibromomethane | ND(5.6) | ND(5.4) | ND(5.5) | ND(5.3) | ND(5.5) | ND(5.3) |
| Dichlorodifluoromethane | ND(5.6) | ND(5.4) | ND(5.5) | ND(5.3) | ND(5.5) | ND(5.3) |
| Ethyl benzene | ND(5.6) | ND(5.4) | ND(5.5) | ND(5.3) | ND(5.5) | ND(5.3) |
| Hexachlorobutadiene | ND(5.6) | ND(5.4) | ND(5.5) | ND(5.3) | ND(5.5) | ND(5.3) |
| Isopropylbenzene | ND(5.6) | ND(5.4) | ND(5.5) | ND(5.3) | ND(5.5) | ND(5.3) |
| Methylene chloride | ND(5.6) | ND(5.4) | ND(5.5) | 7.4 | ND(5.5) | ND(5.3) |
| Naphthalene | ND(5.6) | 26 | ND(5.5) | ND(5.3) | ND(5.5) | ND(5.3) |
| Styrene | ND(5.6) | ND(5.4) | ND(5.5) | ND(5.3) | ND(5.5) | ND(5.3) |
| Tetrachloroethene | ND(5.6) | ND(5.4) | ND(5.5) | ND(5.3) | ND(5.5) | ND(5.3) |
| Toluene | ND(5.6) | ND(5.4) | ND(5.5) | ND(5.3) | ND(5.5) | ND(5.3) |
| Trichloroethene | ND(5.6) | ND(5.4) | ND(5.5) | ND(5.3) | ND(5.5) | ND(5.3) |
| Trichlorofluoromethane | ND(5.6) | ND(5.4) | ND(5.5) | ND(5.3) | ND(5.5) | ND(5.3) |
| Vinyl chloride | ND(5.6) | ND(5.4) | ND(5.5) | ND(5.3) | ND(5.5) | ND(5.3) |
| cis-1,2-Dichloroethene | ND(5.6) | ND(5.4) | ND(5.5) | ND(5.3) | ND(5.5) | ND(5.3) |
| cis-1,3-Dichloropropene | ND(5.6) | ND(5.4) | ND(5.5) | ND(5.3) | ND(5.5) | ND(5.3) |
| m & p-Xylene | ND(5.6) | ND(5.4) | ND(5.5) | ND(5.3) | ND(5.5) | ND(5.3) |
| n-Butylbenzene | ND(5.6) | ND(5.4) | 198 | ND(5.3) | ND(5.5) | ND(5.3) |
| n-Propylbenzene | ND(5.6) | ND(5.4) | ND(5.5) | ND(5.3) | ND(5.5) | ND(5.3) |
| o-Xylene | ND(5.6) | ND(5.4) | ND(5.5) | ND(5.3) | ND(5.5) | ND(5.3) |
| p-Isopropyltoluene | ND(5.6) | 42 | 154 | ND(5.3) | ND(5.5) | ND(5.3) |
| sec-Butylbenzene | ND(5.6) | ND(5.4) | 154 | ND(5.3) | ND(5.5) | ND(5.3) |
| tert-Butylbenzene | ND(5.6) | ND(5.4) | ND(5.5) | ND(5.3) | ND(5.5) | ND(5.3) |
| trans-1,2-Dichloroethene | ND(5.6) | ND(5.4) | ND(5.5) | ND(5.3) | ND(5.5) | ND(5.3) |

# 1994 North Airfield Soil Results

| Sample ID | 94FWN061SL | 94FWN062SL | 94FWN063SL | 94FWN064SL | 94FWN065SL | 94FWN066SL |
|---|---|---|---|---|---|---|
| Date | 9/3/94 | 9/3/94 | 9/3/94 | 9/6/94 | 9/6/94 | 9/6/94 |
| Well / Boring ID | WN5 | WN5 | WN5 | WN3 | WN3 | WN3 |
| Depth | 10 | 15 | 20 | 0 | 5 | 10 |
| Sample Type | PR | PR | PR | PR | PR | PR |
| trans-1,3-Dichloropropene | ND(5.6) | ND(5.4) | ND(5.5) | ND(5.3) | ND(5.5) | ND(5.3) |
| EPA 7421 | | | | | | |
| Lead (GFAA) | 3.6 | 2.7 | 2.6 | 26 | 7 | 3.6 |
| Other | | | | | | |
| Ammonia, as N (350.1) | NA | ND(5) | NA | NA | NA | ND(5) |
| Ammonia, as N (Water Soluble) (350.1) | NA | NA | NA | NA | NA | NA |
| Nitrate, as N (Water Soluble)(353.1-354.1) | NA | ND(0.3) | NA | NA | NA | 2.2 |
| Total Kjeldahl Nitrogen (351.2) | NA | 42 | NA | NA | NA | 73 |
| Total Organic Carbon (415.1) | NA | 499 | NA | NA | NA | 752 |
| Total Organic Carbon Quad 1 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 2 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 3 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 4 (415.1) | NA | NA | NA | NA | NA | NA |

# 1994 North Airfield Soil Results

| Sample ID | 94FWN068SL | 94FWN069SL | 94FWN070SL | 94FWN071SL | 94FWN072SL | 94FWN073SL |
|---|---|---|---|---|---|---|
| Date | 9/6/94 | 9/6/94 | 9/6/94 | 9/6/94 | 9/6/94 | 9/6/94 |
| Well / Boring ID | WN3 | WN3 | WN3 | BN4 | BN4 | BN4 |
| Depth | 10 | 15 | 20 | 0 | 5 | 10 |
| Sample Type | QC | PR | PR | PR | PR | PR |
| M8100 | | | | | | |
| Diesel Range Organics | ND(4.2) | ND(4.2) | 5.2 | 6810 | 87 | 1610 |
| M8015 | | | | | | |
| Gasoline Range Organics | ND(1) | ND(1) | 120 | ND(1) | 25 | 31 |
| 8260 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND(5.3) | ND(5.2) | ND(60) | ND(5.7) | ND(63) | ND(57) |
| 1,1,1-Trichloroethane | ND(5.3) | ND(5.2) | ND(60) | ND(5.7) | ND(63) | ND(57) |
| 1,1,2,2-Tetrachloroethane | ND(5.3) | ND(5.2) | ND(60) | ND(5.7) | ND(63) | ND(57) |
| 1,1,2-Trichloroethane | ND(5.3) | ND(5.2) | ND(60) | ND(5.7) | ND(63) | ND(57) |
| 1,1-Dichloroethane | ND(5.3) | ND(5.2) | ND(60) | ND(5.7) | ND(63) | ND(57) |
| 1,1-Dichloroethene | ND(5.3) | ND(5.2) | ND(60) | ND(5.7) | ND(63) | ND(57) |
| 1,1-Dichloropropene | ND(5.3) | ND(5.2) | ND(60) | ND(5.7) | ND(63) | ND(57) |
| 1,2,3-Trichlorobenzene | ND(5.3) | ND(5.2) | ND(60) | ND(5.7) | ND(63) | ND(57) |
| 1,2,3-Trichloropropane | ND(5.3) | ND(5.2) | ND(60) | ND(5.7) | ND(63) | ND(57) |
| 1,2,4-Trichlorobenzene | ND(5.3) | ND(5.2) | ND(60) | ND(5.7) | ND(63) | ND(57) |
| 1,2,4-Trimethylbenzene | ND(5.3) | ND(5.2) | ND(60) | 45 | 1380 | 34000 |
| 1,2-Dibromo-3-chloropropane | ND(5.3) | ND(5.2) | ND(60) | ND(5.7) | ND(63) | ND(57) |
| 1,2-Dibromoethane | ND(5.3) | ND(5.2) | ND(60) | ND(5.7) | ND(63) | ND(57) |
| 1,2-Dichlorobenzene | ND(5.3) | ND(5.2) | ND(60) | ND(5.7) | ND(63) | ND(57) |
| 1,2-Dichloroethane | ND(5.3) | ND(5.2) | ND(60) | ND(5.7) | ND(63) | ND(57) |
| 1,2-Dichloropropane | ND(5.3) | ND(5.2) | ND(60) | ND(5.7) | ND(63) | ND(57) |
| 1,3,5-Trimethylbenzene | ND(5.3) | ND(5.2) | ND(60) | 11 | 1260 | 10400 |
| 1,3-Dichlorobenzene | ND(5.3) | ND(5.2) | ND(60) | ND(5.7) | ND(63) | ND(57) |
| 1,3-Dichloropropane | ND(5.3) | ND(5.2) | ND(60) | ND(5.7) | ND(63) | ND(57) |
| 1,4-Dichlorobenzene | ND(5.3) | ND(5.2) | ND(60) | ND(5.7) | ND(63) | ND(57) |
| 2,2-Dichloropropane | ND(5.3) | ND(5.2) | ND(60) | ND(5.7) | ND(63) | ND(57) |
| 2-Butanone | ND(10) | ND(10) | ND(120) | ND(11) | ND(120) | ND(110) |
| 2-Chlorotoluene | ND(5.3) | ND(5.2) | ND(60) | ND(5.7) | ND(63) | ND(57) |
| 4-Chlorotoluene | ND(5.3) | ND(5.2) | ND(60) | ND(5.7) | ND(63) | ND(57) |
| Acetone | ND(10) | ND(10) | ND(120) | ND(11) | ND(120) | 182 |
| Benzene | ND(5.3) | ND(5.2) | ND(60) | ND(5.7) | ND(63) | 1360 |
| Bromobenzene | ND(5.3) | ND(5.2) | ND(60) | ND(5.7) | ND(63) | ND(57) |
| Bromochloromethane | ND(5.3) | ND(5.2) | ND(60) | ND(5.7) | ND(63) | ND(57) |
| Bromodichloromethane | ND(5.3) | ND(5.2) | ND(60) | ND(5.7) | ND(63) | ND(57) |
| Bromoform | ND(5.3) | ND(5.2) | ND(60) | ND(5.7) | ND(63) | ND(57) |
| Bromomethane | ND(5.3) | ND(5.2) | ND(60) | ND(5.7) | ND(63) | ND(57) |
| Carbon Tetrachloride | ND(5.3) | ND(5.2) | ND(60) | ND(5.7) | ND(63) | ND(57) |
| Chlorobenzene | ND(5.3) | ND(5.2) | ND(60) | ND(5.7) | ND(63) | ND(57) |
| Chloroethane | ND(5.3) | ND(5.2) | ND(60) | ND(5.7) | ND(63) | ND(57) |
| Chloroform | ND(5.3) | ND(5.2) | ND(60) | ND(5.7) | ND(63) | ND(57) |
| Chloromethane | ND(5.3) | ND(5.2) | ND(60) | ND(5.7) | ND(63) | ND(57) |
| Dibromochloromethane | ND(5.3) | ND(5.2) | ND(60) | ND(5.7) | ND(63) | ND(57) |
| Dibromomethane | ND(5.3) | ND(5.2) | ND(60) | ND(5.7) | ND(63) | ND(57) |
| Dichlorodifluoromethane | ND(5.3) | ND(5.2) | ND(60) | ND(5.7) | ND(63) | ND(57) |
| Ethyl benzene | ND(5.3) | ND(5.2) | ND(60) | ND(5.7) | 176 | 3630 |
| Hexachlorobutadiene | ND(5.3) | ND(5.2) | ND(60) | ND(5.7) | ND(63) | ND(57) |
| Isopropylbenzene | ND(5.3) | ND(5.2) | ND(60) | ND(5.7) | ND(63) | 760 |
| Methylene chloride | 6.4 | 5.9 | ND(60) | ND(5.7) | ND(63) | ND(57) |
| Naphthalene | ND(5.3) | ND(5.2) | 193 | 137 | 1760 | 840 |
| Styrene | ND(5.3) | ND(5.2) | ND(60) | ND(5.7) | ND(63) | ND(57) |
| Tetrachloroethene | ND(5.3) | ND(5.2) | ND(60) | ND(5.7) | ND(63) | ND(57) |
| Toluene | ND(5.3) | ND(5.2) | ND(60) | ND(5.7) | 163 | 11400 |
| Trichloroethene | ND(5.3) | ND(5.2) | ND(60) | ND(5.7) | ND(63) | ND(57) |
| Trichlorofluoromethane | ND(5.3) | ND(5.2) | ND(60) | ND(5.7) | ND(63) | ND(57) |
| Vinyl chloride | ND(5.3) | ND(5.2) | ND(60) | ND(5.7) | ND(63) | ND(57) |
| cis-1,2-Dichloroethene | ND(5.3) | ND(5.2) | ND(60) | ND(5.7) | ND(63) | ND(57) |
| cis-1,3-Dichloropropene | ND(5.3) | ND(5.2) | ND(60) | ND(5.7) | ND(63) | ND(57) |
| m & p-Xylene | ND(5.3) | ND(5.2) | ND(60) | 12 | 1380 | 23800 |
| n-Butylbenzene | ND(5.3) | ND(5.2) | ND(60) | 14 | ND(63) | ND(57) |
| n-Propylbenzene | ND(5.3) | ND(5.2) | ND(60) | ND(5.7) | 120 | 2270 |
| o-Xylene | ND(5.3) | ND(5.2) | ND(60) | ND(5.7) | 95 | 6360 |
| p-Isopropyltoluene | ND(5.3) | ND(5.2) | ND(60) | ND(5.7) | 502 | 1590 |
| sec-Butylbenzene | ND(5.3) | ND(5.2) | ND(60) | ND(5.7) | ND(63) | 919 |
| tert-Butylbenzene | ND(5.3) | ND(5.2) | ND(60) | ND(5.7) | ND(63) | ND(57) |
| trans-1,2-Dichloroethene | ND(5.3) | ND(5.2) | ND(60) | ND(5.7) | ND(63) | ND(57) |

# 1994 North Airfield Soil Results

| Sample ID | 94FWN068SL | 94FWN069SL | 94FWN070SL | 94FWN071SL | 94FWN072SL | 94FWN073SL |
|---|---|---|---|---|---|---|
| Date | 9/6/94 | 9/6/94 | 9/6/94 | 9/6/94 | 9/6/94 | 9/6/94 |
| Well / Boring ID | WN3 | WN3 | WN3 | BN4 | BN4 | BN4 |
| Depth | 10 | 15 | 20 | 0 | 5 | 10 |
| Sample Type | QC | PR | PR | PR | PR | PR |
| trans-1,3-Dichloropropene | ND(5.3) | ND(5.2) | ND(60) | ND(5.7) | ND(63) | ND(57) |
| EPA 7421 | | | | | | |
| Lead (GFAA) | 3.6 | 2.7 | 2.6 | 6.2 | 5.6 | 6.7 |
| Other | | | | | | |
| Ammonia, as N (350.1) | ND(5) | NA | NA | NA | NA | ND(5) |
| Ammonia, as N (Water Soluble) (350.1) | NA | NA | NA | NA | NA | NA |
| Nitrate, as N (Water Soluble)(353.1-354.1) | 2.2 | NA | NA | NA | NA | ND(0.3) |
| Total Kjeldahl Nitrogen (351.2) | 58 | NA | NA | NA | NA | 56 |
| Total Organic Carbon (415.1) | 615 | NA | NA | NA | NA | 1180 |
| Total Organic Carbon Quad 1 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 2 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 3 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 4 (415.1) | NA | NA | NA | NA | NA | NA |

# 1994 North Airfield Soil Results

| Sample ID | 94FWN074SL | 94FWN075SL | 94FWN076SL | 94FWN077SL | 94FWN078SL | 94FWN079SL |
|---|---|---|---|---|---|---|
| Date | 9/6/94 | 9/6/94 | 9/6/94 | 9/6/94 | 9/6/94 | 9/7/94 |
| Well / Boring ID | BN4 | BN5 | BN5 | BN5 | BN5 | BN6 |
| Depth | 15 | 0 | 5 | 10 | 15 | 0 |
| Sample Type | PR | PR | PR | PR | PR | PR |
| M8100 | | | | | | |
| Diesel Range Organics | 3860 | 9560 | 1130 | 1240 | 7630 | 60 |
| M8015 | | | | | | |
| Gasoline Range Organics | 2.76 | 996 | 688 | 359 | 1670 | 272 |
| 8260 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND(580) | ND(520) | ND(510) | ND(510) | ND(600) | ND(57) |
| 1,1,1-Trichloroethane | ND(580) | ND(520) | ND(510) | ND(510) | ND(600) | ND(57) |
| 1,1,2,2-Tetrachloroethane | ND(580) | ND(520) | ND(510) | ND(510) | ND(600) | ND(57) |
| 1,1,2-Trichloroethane | ND(580) | ND(520) | ND(510) | ND(510) | ND(600) | ND(57) |
| 1,1-Dichloroethane | ND(580) | ND(520) | ND(510) | ND(510) | ND(600) | ND(57) |
| 1,1-Dichloroethene | ND(580) | ND(520) | ND(510) | ND(510) | ND(600) | ND(57) |
| 1,1-Dichloropropene | ND(580) | ND(520) | ND(510) | ND(510) | ND(600) | ND(57) |
| 1,2,3-Trichlorobenzene | ND(580) | ND(520) | ND(510) | ND(510) | ND(600) | ND(57) |
| 1,2,3-Trichloropropane | ND(580) | ND(520) | ND(510) | ND(510) | ND(600) | ND(57) |
| 1,2,4-Trichlorobenzene | ND(580) | ND(520) | ND(510) | ND(510) | ND(600) | ND(57) |
| 1,2,4-Trimethylbenzene | 101000 | 52400 | 20600 | 35900 | 90500 | ND(57) |
| 1,2-Dibromo-3-chloropropane | ND(580) | ND(520) | ND(510) | ND(510) | ND(600) | ND(57) |
| 1,2-Dibromoethane | ND(580) | ND(520) | ND(510) | ND(510) | ND(600) | ND(57) |
| 1,2-Dichlorobenzene | ND(580) | ND(520) | ND(510) | ND(510) | ND(600) | ND(57) |
| 1,2-Dichloroethane | ND(580) | ND(520) | ND(510) | ND(510) | ND(600) | ND(57) |
| 1,2-Dichloropropane | ND(580) | ND(520) | ND(510) | ND(510) | ND(600) | ND(57) |
| 1,3,5-Trimethylbenzene | 33400 | 30400 | 7710 | 9650 | 25000 | ND(57) |
| 1,3-Dichlorobenzene | ND(580) | ND(520) | ND(510) | ND(510) | ND(600) | ND(57) |
| 1,3-Dichloropropane | ND(580) | ND(520) | ND(510) | ND(510) | ND(600) | ND(57) |
| 1,4-Dichlorobenzene | ND(580) | ND(520) | ND(510) | ND(510) | ND(600) | ND(57) |
| 2,2-Dichloropropane | ND(580) | ND(520) | ND(510) | ND(510) | ND(600) | ND(57) |
| 2-Butanone | ND(1200) | ND(1000) | ND(1000) | ND(1000) | ND(1200) | ND(110) |
| 2-Chlorotoluene | ND(580) | ND(520) | ND(510) | ND(510) | ND(600) | ND(57) |
| 4-Chlorotoluene | ND(580) | ND(520) | ND(510) | ND(510) | ND(600) | ND(57) |
| Acetone | ND(1200) | ND(1000) | ND(1000) | ND(1000) | ND(1200) | ND(110) |
| Benzene | 9780 | ND(520) | ND(510) | ND(510) | 2620 | ND(57) |
| Bromobenzene | ND(580) | ND(520) | ND(510) | ND(510) | ND(600) | ND(57) |
| Bromochloromethane | ND(580) | ND(520) | ND(510) | ND(510) | ND(600) | ND(57) |
| Bromodichloromethane | ND(580) | ND(520) | ND(510) | ND(510) | ND(600) | ND(57) |
| Bromoform | ND(580) | ND(520) | ND(510) | ND(510) | ND(600) | ND(57) |
| Bromomethane | ND(580) | ND(520) | ND(510) | ND(510) | ND(600) | ND(57) |
| Carbon Tetrachloride | ND(580) | ND(520) | ND(510) | ND(510) | ND(600) | ND(57) |
| Chlorobenzene | ND(580) | ND(520) | ND(510) | ND(510) | ND(600) | ND(57) |
| Chloroethane | ND(580) | ND(520) | ND(510) | ND(510) | ND(600) | ND(57) |
| Chloroform | ND(580) | ND(520) | ND(510) | ND(510) | ND(600) | ND(57) |
| Chloromethane | ND(580) | ND(520) | ND(510) | ND(510) | ND(600) | ND(57) |
| Dibromochloromethane | ND(580) | ND(520) | ND(510) | ND(510) | ND(600) | ND(57) |
| Dibromomethane | ND(580) | ND(520) | ND(510) | ND(510) | ND(600) | ND(57) |
| Dichlorodifluoromethane | ND(580) | ND(520) | ND(510) | ND(510) | ND(600) | ND(57) |
| Ethyl benzene | 21900 | ND(520) | 1640 | 2160 | 14300 | ND(57) |
| Hexachlorobutadiene | ND(580) | ND(520) | ND(510) | ND(510) | ND(600) | ND(57) |
| Isopropylbenzene | 5060 | ND(520) | 627 | 955 | 3810 | ND(57) |
| Methylene chloride | ND(580) | 807 | 822 | ND(510) | ND(600) | ND(57) |
| Naphthalene | 34500 | 12600 | 5650 | 7490 | 41700 | 170 |
| Styrene | ND(580) | ND(520) | ND(510) | ND(510) | ND(600) | ND(57) |
| Tetrachloroethene | ND(580) | ND(520) | ND(510) | ND(510) | ND(600) | ND(57) |
| Toluene | 104000 | ND(520) | 1230 | 1020 | 44000 | ND(57) |
| Trichloroethene | ND(580) | ND(520) | ND(510) | ND(510) | ND(600) | ND(57) |
| Trichlorofluoromethane | ND(580) | ND(520) | ND(510) | ND(510) | ND(600) | ND(57) |
| Vinyl chloride | ND(580) | ND(520) | ND(510) | ND(510) | ND(600) | ND(57) |
| cis-1,2-Dichloroethene | ND(580) | ND(520) | ND(510) | ND(510) | ND(600) | ND(57) |
| cis-1,3-Dichloropropene | ND(580) | ND(520) | ND(510) | ND(510) | ND(600) | ND(57) |
| m & p-Xylene | 108000 | 18900 | 12300 | 15400 | 83300 | 77 |
| n-Butylbenzene | ND(580) | ND(520) | ND(510) | ND(510) | ND(600) | ND(57) |
| n-Propylbenzene | 10400 | ND(520) | 1340 | 1850 | 7500 | ND(57) |
| o-Xylene | 42600 | 18900 | 5760 | 7190 | 35700 | ND(57) |
| p-Isopropyltoluene | 5290 | 1470 | ND(510) | 1740 | 4760 | ND(57) |
| sec-Butylbenzene | 3680 | ND(520) | 576 | 811 | 2860 | ND(57) |
| tert-Butylbenzene | ND(580) | ND(520) | ND(510) | ND(510) | ND(600) | ND(57) |
| trans-1,2-Dichloroethene | ND(580) | ND(520) | ND(510) | ND(510) | ND(600) | ND(57) |

# 1994 North Airfield Soil Results

| Sample ID | 94FWN074SL | 94FWN075SL | 94FWN076SL | 94FWN077SL | 94FWN078SL | 94FWN079SL |
|---|---|---|---|---|---|---|
| Date | 9/6/94 | 9/6/94 | 9/6/94 | 9/6/94 | 9/6/94 | 9/7/94 |
| Well / Boring ID | BN4 | BN5 | BN5 | BN5 | BN5 | BN6 |
| Depth | 15 | 0 | 5 | 10 | 15 | 0 |
| Sample Type | PR | PR | PR | PR | PR | PR |
| trans-1,3-Dichloropropene | ND(580) | ND(520) | ND(510) | ND(510) | ND(600) | ND(57) |
| EPA 7421 | | | | | | |
| Lead (GFAA) | 16 | 117 | 9.4 | 5.2 | 22 | 5.6 |
| Other | | | | | | |
| Ammonia, as N (350.1) | NA | NA | ND(5) | NA | NA | NA |
| Ammonia, as N (Water Soluble) (350.1) | NA | NA | NA | NA | NA | NA |
| Nitrate, as N (Water Soluble)(353.1-354.1) | NA | NA | ND(0.3) | NA | NA | NA |
| Total Kjeldahl Nitrogen (351.2) | NA | NA | 206 | NA | NA | NA |
| Total Organic Carbon (415.1) | NA | NA | 2370 | NA | NA | NA |
| Total Organic Carbon Quad 1 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 2 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 3 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 4 (415.1) | NA | NA | NA | NA | NA | NA |

# 1994 North Airfield Soil Results

| Sample ID | 94FWN080SL | 94FWN082SL | 94FWN083SL | 94FWN084SL | 94FWN085SL | 94FWN086SL |
|---|---|---|---|---|---|---|
| Date | 9/7/94 | 9/7/94 | 9/7/94 | 9/7/94 | 9/7/94 | 9/7/94 |
| Well / Boring ID | BN6 | BN6 | BN6 | BN6 | BN7 | BN7 |
| Depth | 5 | 5 | 10 | 15 | 0 | 5 |
| Sample Type | PR | QC | PR | PR | PR | PR |
| M8100 | | | | | | |
| Diesel Range Organics | 204 | 123 | 4860 | 550 | 123 | 1460 |
| M8015 | | | | | | |
| Gasoline Range Organics | 8.8 | 19 | 1270 | 2260 | ND(1) | 563 |
| 8260 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND(59) | ND(56) | ND(53) | ND(66) | ND(5.1) | ND(52) |
| 1,1,1-Trichloroethane | ND(59) | ND(56) | ND(53) | ND(66) | ND(5.1) | ND(52) |
| 1,1,2,2-Tetrachloroethane | ND(59) | ND(56) | ND(53) | ND(66) | ND(5.1) | ND(52) |
| 1,1,2-Trichloroethane | ND(59) | ND(56) | ND(53) | ND(66) | ND(5.1) | ND(52) |
| 1,1-Dichloroethane | ND(59) | ND(56) | ND(53) | ND(66) | ND(5.1) | ND(52) |
| 1,1-Dichloroethene | ND(59) | ND(56) | ND(53) | ND(66) | ND(5.1) | ND(52) |
| 1,1-Dichloropropene | ND(59) | ND(56) | ND(53) | ND(66) | ND(5.1) | ND(52) |
| 1,2,3-Trichlorobenzene | ND(59) | ND(56) | ND(53) | ND(66) | ND(5.1) | ND(52) |
| 1,2,3-Trichloropropane | ND(59) | ND(56) | ND(53) | ND(66) | ND(5.1) | ND(52) |
| 1,2,4-Trichlorobenzene | ND(59) | ND(56) | ND(53) | ND(66) | ND(5.1) | ND(52) |
| 1,2,4-Trimethylbenzene | 1410 | 930 | 61600 | 1460 | ND(5.1) | 386 |
| 1,2-Dibromo-3-chloropropane | ND(59) | ND(56) | ND(53) | ND(66) | ND(5.1) | ND(52) |
| 1,2-Dibromoethane | ND(59) | ND(56) | ND(53) | ND(66) | ND(5.1) | ND(52) |
| 1,2-Dichlorobenzene | ND(59) | ND(56) | ND(53) | ND(66) | ND(5.1) | ND(52) |
| 1,2-Dichloroethane | ND(59) | ND(56) | ND(53) | ND(66) | ND(5.1) | ND(52) |
| 1,2-Dichloropropane | ND(59) | ND(56) | ND(53) | ND(66) | ND(5.1) | ND(52) |
| 1,3,5-Trimethylbenzene | 471 | 280 | 15900 | 465 | ND(5.1) | 1560 |
| 1,3-Dichlorobenzene | ND(59) | ND(56) | ND(53) | ND(66) | ND(5.1) | ND(52) |
| 1,3-Dichloropropane | ND(59) | ND(56) | ND(53) | ND(66) | ND(5.1) | ND(52) |
| 1,4-Dichlorobenzene | ND(59) | ND(56) | ND(53) | ND(66) | ND(5.1) | ND(52) |
| 2,2-Dichloropropane | ND(59) | ND(56) | ND(53) | ND(66) | ND(5.1) | ND(52) |
| 2-Butanone | 110 | ND(110) | ND(110) | ND(130) | ND(10) | ND(100) |
| 2-Chlorotoluene | ND(59) | ND(56) | ND(53) | ND(66) | ND(5.1) | ND(52) |
| 4-Chlorotoluene | ND(59) | ND(56) | ND(53) | ND(66) | ND(5.1) | ND(52) |
| Acetone | 389 | 213 | ND(110) | ND(130) | ND(10) | ND(100) |
| Benzene | ND(59) | ND(56) | 191 | 332 | ND(5.1) | ND(52) |
| Bromobenzene | ND(59) | ND(56) | ND(53) | ND(66) | ND(5.1) | ND(52) |
| Bromochloromethane | ND(59) | ND(56) | ND(53) | ND(66) | ND(5.1) | ND(52) |
| Bromodichloromethane | ND(59) | ND(56) | ND(53) | ND(66) | ND(5.1) | ND(52) |
| Bromoform | ND(59) | ND(56) | ND(53) | ND(66) | ND(5.1) | ND(52) |
| Bromomethane | ND(59) | ND(56) | ND(53) | ND(66) | ND(5.1) | ND(52) |
| Carbon Tetrachloride | ND(59) | ND(56) | ND(53) | ND(66) | ND(5.1) | ND(52) |
| Chlorobenzene | ND(59) | ND(56) | ND(53) | ND(66) | ND(5.1) | ND(52) |
| Chloroethane | ND(59) | ND(56) | ND(53) | ND(66) | ND(5.1) | ND(52) |
| Chloroform | ND(59) | ND(56) | ND(53) | ND(66) | ND(5.1) | ND(52) |
| Chloromethane | ND(59) | ND(56) | ND(53) | ND(66) | ND(5.1) | ND(52) |
| Dibromochloromethane | ND(59) | ND(56) | ND(53) | ND(66) | ND(5.1) | ND(52) |
| Dibromomethane | ND(59) | ND(56) | ND(53) | ND(66) | ND(5.1) | ND(52) |
| Dichlorodifluoromethane | ND(59) | ND(56) | ND(53) | ND(66) | ND(5.1) | ND(52) |
| Ethyl benzene | 294 | 84 | 9450 | 186 | ND(5.1) | ND(52) |
| Hexachlorobutadiene | ND(59) | ND(56) | ND(53) | ND(66) | ND(5.1) | ND(52) |
| Isopropylbenzene | 130 | ND(56) | 3720 | 74 | ND(5.1) | ND(52) |
| Methylene chloride | ND(59) | ND(56) | ND(53) | ND(66) | ND(5.1) | ND(52) |
| Naphthalene | 330 | 247 | 39300 | 1460 | ND(5.1) | 89 |
| Styrene | ND(59) | ND(56) | ND(53) | ND(66) | ND(5.1) | ND(52) |
| Tetrachloroethene | ND(59) | ND(56) | ND(53) | ND(66) | ND(5.1) | ND(52) |
| Toluene | 120 | 86 | 13800 | 770 | ND(5.1) | 125 |
| Trichloroethene | ND(59) | ND(56) | ND(53) | ND(66) | ND(5.1) | ND(52) |
| Trichlorofluoromethane | ND(59) | ND(56) | ND(53) | ND(66) | ND(5.1) | ND(52) |
| Vinyl chloride | ND(59) | ND(56) | ND(53) | ND(66) | ND(5.1) | ND(52) |
| cis-1,2-Dichloroethene | ND(59) | ND(56) | ND(53) | ND(66) | ND(5.1) | ND(52) |
| cis-1,3-Dichloropropene | ND(59) | ND(56) | ND(53) | ND(66) | ND(5.1) | ND(52) |
| m & p-Xylene | 1110 | 426 | 44600 | 850 | ND(5.1) | 594 |
| n-Butylbenzene | 236 | ND(56) | 2020 | ND(66) | ND(5.1) | ND(52) |
| n-Propylbenzene | 283 | 112 | 7320 | 186 | ND(5.1) | ND(52) |
| o-Xylene | 530 | 224 | 15900 | 345 | ND(5.1) | 1560 |
| p-Isopropyltoluene | 1180 | 471 | 6580 | 159 | ND(5.1) | ND(52) |
| sec-Butylbenzene | 212 | 110 | 5940 | 159 | ND(5.1) | ND(52) |
| tert-Butylbenzene | ND(59) | ND(56) | ND(53) | ND(66) | ND(5.1) | ND(52) |
| trans-1,2-Dichloroethene | ND(59) | ND(56) | ND(53) | ND(66) | ND(5.1) | ND(52) |

# 1994 North Airfield Soil Results

| Sample ID | 94FWN080SL | 94FWN082SL | 94FWN083SL | 94FWN084SL | 94FWN085SL | 94FWN086SL |
|---|---|---|---|---|---|---|
| Date | 9/7/94 | 9/7/94 | 9/7/94 | 9/7/94 | 9/7/94 | 9/7/94 |
| Well / Boring ID | BN6 | BN6 | BN6 | BN6 | BN7 | BN7 |
| Depth | 5 | 5 | 10 | 15 | 0 | 5 |
| Sample Type | PR | QC | PR | PR | PR | PR |
| trans-1,3-Dichloropropene | ND(59) | ND(56) | ND(53) | ND(66) | ND(5.1) | ND(52) |
| EPA 7421 | | | | | | |
| Lead (GFAA) | 6.7 | 6.5 | 5.1 | 8.5 | 12 | 6.2 |
| Other | | | | | | |
| Ammonia, as N (350.1) | NA | NA | NA | NA | NA | NA |
| Ammonia, as N (Water Soluble) (350.1) | 2.9 | 3.2 | NA | NA | NA | NA |
| Nitrate, as N (Water Soluble)(353.1-354.1) | ND(0.4) | ND(0.4) | NA | NA | NA | NA |
| Total Kjeldahl Nitrogen (351.2) | 722 | 1010 | NA | NA | NA | NA |
| Total Organic Carbon (415.1) | 6500 | 7490 | NA | NA | NA | NA |
| Total Organic Carbon Quad 1 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 2 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 3 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 4 (415.1) | NA | NA | NA | NA | NA | NA |

# 1994 North Airfield Soil Results

| Sample ID | 94FWN087SL | 94FWN088SL | 94FWN089SL | 94FWN090SL | 94FWN091SL | 94FWN092SL |
|---|---|---|---|---|---|---|
| Date | 9/7/94 | 9/7/94 | 9/7/94 | 9/7/94 | 9/7/94 | 9/7/94 |
| Well / Boring ID | BN7 | BN7 | BN8 | BN8 | BN8 | BN8 |
| Depth | 10 | 15 | 0 | 5 | 10 | 15 |
| Sample Type | PR | PR | PR | PR | PR | PR |
| M8100 | | | | | | |
| *Diesel Range Organics* | *7100* | *4220* | *1460* | *1650* | *7240* | *6170* |
| M3015 | | | | | | |
| Gasoline Range Organics | 2250 | 2490 | 12 | 359 | 949 | 1400 |
| 8260 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND(540) | ND(620) | ND(52) | ND(510) | ND(520) | ND(580) |
| 1,1,1-Trichloroethane | ND(540) | ND(620) | ND(52) | ND(510) | ND(520) | ND(580) |
| 1,1,2,2-Tetrachloroethane | ND(540) | ND(620) | ND(52) | ND(510) | ND(520) | ND(580) |
| 1,1,2-Trichloroethane | ND(540) | ND(620) | ND(52) | ND(510) | ND(520) | ND(580) |
| 1,1-Dichloroethane | ND(540) | ND(620) | ND(52) | ND(510) | ND(520) | ND(580) |
| 1,1-Dichloroethene | ND(540) | ND(620) | ND(52) | ND(510) | ND(520) | ND(580) |
| 1,1-Dichloropropene | ND(540) | ND(620) | ND(52) | ND(510) | ND(520) | ND(580) |
| 1,2,3-Trichlorobenzene | ND(540) | ND(620) | ND(52) | ND(510) | ND(520) | ND(580) |
| 1,2,3-Trichloropropane | ND(540) | ND(620) | ND(52) | ND(510) | ND(520) | ND(580) |
| 1,2,4-Trichlorobenzene | ND(540) | ND(620) | ND(52) | ND(510) | ND(520) | ND(580) |
| 1,2,4-Trimethylbenzene | 99600 | 68400 | ND(52) | 7070 | 55300 | 54800 |
| 1,2-Dibromo-3-chloropropane | ND(540) | ND(620) | ND(52) | ND(510) | ND(520) | ND(580) |
| 1,2-Dibromoethane | ND(540) | ND(620) | ND(52) | ND(510) | ND(520) | ND(580) |
| 1,2-Dichlorobenzene | ND(540) | ND(620) | ND(52) | ND(510) | ND(520) | ND(580) |
| 1,2-Dichloroethane | ND(540) | ND(620) | ND(52) | ND(510) | ND(520) | ND(580) |
| 1,2-Dichloropropane | ND(540) | ND(620) | ND(52) | ND(510) | ND(520) | ND(580) |
| 1,3,5-Trimethylbenzene | 37500 | 22400 | ND(52) | 2460 | 17700 | 15200 |
| 1,3-Dichlorobenzene | ND(540) | ND(620) | ND(52) | ND(510) | ND(520) | ND(580) |
| 1,3-Dichloropropane | ND(540) | ND(620) | ND(52) | ND(510) | ND(520) | ND(580) |
| 1,4-Dichlorobenzene | ND(540) | ND(620) | ND(52) | ND(510) | ND(520) | ND(580) |
| 2,2-Dichloropropane | ND(540) | ND(620) | ND(52) | ND(510) | ND(520) | ND(580) |
| 2-Butanone | ND(1100) | ND(1200) | ND(100) | ND(1000) | ND(1000) | ND(1200) |
| 2-Chlorotoluene | ND(540) | ND(620) | ND(52) | ND(510) | ND(520) | ND(580) |
| 4-Chlorotoluene | ND(540) | ND(620) | ND(52) | ND(510) | ND(520) | ND(580) |
| Acetone | ND(1100) | ND(1200) | ND(100) | ND(1000) | ND(1000) | ND(1200) |
| Benzene | 856 | 3730 | ND(52) | ND(510) | ND(520) | 2570 |
| Bromobenzene | ND(540) | ND(620) | ND(52) | ND(510) | ND(520) | ND(580) |
| Bromochloromethane | ND(540) | ND(620) | ND(52) | ND(510) | ND(520) | ND(580) |
| Bromodichloromethane | ND(540) | ND(620) | ND(52) | ND(510) | ND(520) | ND(580) |
| Bromoform | ND(540) | ND(620) | ND(52) | ND(510) | ND(520) | ND(580) |
| Bromomethane | ND(540) | ND(620) | ND(52) | ND(510) | ND(520) | ND(580) |
| Carbon Tetrachloride | ND(540) | ND(620) | ND(52) | ND(510) | ND(520) | ND(580) |
| Chlorobenzene | ND(540) | ND(620) | ND(52) | ND(510) | ND(520) | ND(580) |
| Chloroethane | ND(540) | ND(620) | ND(52) | ND(510) | ND(520) | ND(580) |
| Chloroform | ND(540) | ND(620) | ND(52) | ND(510) | ND(520) | ND(580) |
| Chloromethane | ND(540) | ND(620) | ND(52) | ND(510) | ND(520) | ND(580) |
| Dibromochloromethane | ND(540) | ND(620) | ND(52) | ND(510) | ND(520) | ND(580) |
| Dibromomethane | ND(540) | ND(620) | ND(52) | ND(510) | ND(520) | ND(580) |
| Dichlorodifluoromethane | ND(540) | ND(620) | ND(52) | ND(510) | ND(520) | ND(580) |
| Ethyl benzene | 5460 | 8460 | ND(52) | ND(510) | 1980 | 3730 |
| Hexachlorobutadiene | ND(540) | ND(620) | ND(52) | ND(510) | ND(520) | ND(580) |
| Isopropylbenzene | 1390 | 1860 | ND(52) | ND(510) | 1150 | 1280 |
| Methylene chloride | ND(540) | ND(620) | ND(52) | ND(510) | ND(520) | ND(580) |
| Naphthalene | 50300 | 57200 | ND(52) | 11300 | 38600 | 63000 |
| Styrene | ND(540) | ND(620) | ND(52) | ND(510) | ND(520) | ND(580) |
| Tetrachloroethene | ND(540) | ND(620) | ND(52) | ND(510) | ND(520) | ND(580) |
| Toluene | 35300 | 44800 | ND(52) | 840 | 17700 | 29200 |
| Trichloroethene | ND(540) | ND(620) | ND(52) | ND(510) | ND(520) | ND(580) |
| Trichlorofluoromethane | ND(540) | ND(620) | ND(52) | ND(510) | ND(520) | ND(580) |
| Vinyl chloride | ND(540) | ND(620) | ND(52) | ND(510) | ND(520) | ND(580) |
| cis-1,2-Dichloroethene | ND(540) | ND(620) | ND(52) | ND(510) | ND(520) | ND(580) |
| cis-1,3-Dichloropropene | ND(540) | ND(620) | ND(52) | ND(510) | ND(520) | ND(580) |
| m & p-Xylene | 106000 | 79600 | ND(52) | 4400 | 51100 | 47800 |
| n-Butylbenzene | ND(540) | ND(620) | ND(52) | ND(510) | ND(520) | ND(580) |
| n-Propylbenzene | 1820 | 4350 | ND(52) | ND(510) | 1460 | 2100 |
| o-Xylene | 47100 | 32300 | ND(52) | 2050 | 21900 | 21000 |
| p-Isopropyltoluene | 5140 | 4100 | ND(52) | ND(510) | 4380 | 4900 |
| sec-Butylbenzene | 2460 | 2490 | ND(52) | ND(510) | 2710 | 2570 |
| tert-Butylbenzene | ND(540) | ND(620) | ND(52) | ND(510) | ND(520) | ND(580) |
| trans-1,2-Dichloroethene | ND(540) | ND(620) | ND(52) | ND(510) | ND(520) | ND(580) |

# 1994 North Airfield Soil Results

| Sample ID | 94FWN087SL | 94FWN088SL | 94FWN089SL | 94FWN090SL | 94FWN091SL | 94FWN092SL |
|---|---|---|---|---|---|---|
| Date | 9/7/94 | 9/7/94 | 9/7/94 | 9/7/94 | 9/7/94 | 9/7/94 |
| Well / Boring ID | BN7 | BN7 | BN8 | BN8 | BN8 | BN8 |
| Depth | 10 | 15 | 0 | 5 | 10 | 15 |
| Sample Type | PR | PR | PR | PR | PR | PR |
| trans-1,3-Dichloropropene | ND(540) | ND(620) | ND(52) | ND(510) | ND(520) | ND(580) |
| EPA 7421 | | | | | | |
| Lead (GFAA) | 7.1 | 6.2 | 10 | 6.3 | 6.3 | 9.6 |
| Other | | | | | | |
| Ammonia, as N (350.1) | NA | NA | NA | NA | NA | NA |
| Ammonia, as N (Water Soluble) (350.1) | ND(0.5) | NA | NA | NA | ND(0.5) | NA |
| Nitrate, as N (Water Soluble)(353.1-354.1) | 1 | NA | NA | NA | 0.6 | NA |
| Total Kjeldahl Nitrogen (351.2) | 97 | NA | NA | NA | 147 | NA |
| Total Organic Carbon (415.1) | 2220 | NA | NA | NA | 1780 | NA |
| Total Organic Carbon Quad 1 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 2 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 3 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 4 (415.1) | NA | NA | NA | NA | NA | NA |

# 1994 North Airfield Soil Results

| Sample ID | 94FWN093SL | 94FWN094SL | 94FWN095SL | 94FWN097SL | 94FWN098SL | 94FWN099SL |
|---|---|---|---|---|---|---|
| Date | 9/7/94 | 9/7/94 | 9/7/94 | 9/7/94 | 9/7/94 | 9/8/94 |
| Well / Boring ID | BN9 | BN9 | BN9 | BN9 | BN9 | BN10 |
| Depth | 0 | 5 | 10 | 10 | 15 | 0 |
| Sample Type | PR | PR | PR | QC | PR | PR |
| M8100 | | | | | | |
| Diesel Range Organics | 64 | 9.4 | 5750 | 4540 | 10100 | 303 |
| M8015 | | | | | | |
| Gasoline Range Organics | 3.8 | 2.3 | 2430 | 1260 | 747 | ND(1) |
| 8260 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND(65) | ND(6.1) | ND(530) | ND(530) | ND(580) | ND(5.2) |
| 1,1,1-Trichloroethane | ND(65) | ND(6.1) | ND(530) | ND(530) | ND(580) | ND(5.2) |
| 1,1,2,2-Tetrachloroethane | ND(65) | ND(6.1) | ND(530) | ND(530) | ND(580) | ND(5.2) |
| 1,1,2-Trichloroethane | ND(65) | ND(6.1) | ND(530) | ND(530) | ND(580) | ND(5.2) |
| 1,1-Dichloroethane | ND(65) | ND(6.1) | ND(530) | ND(530) | ND(580) | ND(5.2) |
| 1,1-Dichloroethene | ND(65) | ND(6.1) | ND(530) | ND(530) | ND(580) | ND(5.2) |
| 1,1-Dichloropropene | ND(65) | ND(6.1) | ND(530) | ND(530) | ND(580) | ND(5.2) |
| 1,2,3-Trichlorobenzene | ND(65) | ND(6.1) | ND(530) | ND(530) | ND(580) | ND(5.2) |
| 1,2,3-Trichloropropane | ND(65) | ND(6.1) | ND(530) | ND(530) | ND(580) | ND(5.2) |
| 1,2,4-Trichlorobenzene | ND(65) | ND(6.1) | ND(530) | ND(530) | ND(580) | ND(5.2) |
| 1,2,4-Trimethylbenzene | ND(65) | ND(6.1) | 78100 | 72800 | 91000 | ND(5.2) |
| 1,2-Dibromo-3-chloropropane | ND(65) | ND(6.1) | ND(530) | ND(530) | ND(580) | ND(5.2) |
| 1,2-Dibromoethane | ND(65) | ND(6.1) | ND(530) | ND(530) | ND(580) | ND(5.2) |
| 1,2-Dichlorobenzene | ND(65) | ND(6.1) | ND(530) | ND(530) | ND(580) | ND(5.2) |
| 1,2-Dichloroethane | ND(65) | ND(6.1) | ND(530) | ND(530) | ND(580) | ND(5.2) |
| 1,2-Dichloropropane | ND(65) | ND(6.1) | ND(530) | ND(530) | ND(580) | ND(5.2) |
| 1,3,5-Trimethylbenzene | ND(65) | ND(6.1) | 27400 | 25300 | 24500 | ND(5.2) |
| 1,3-Dichlorobenzene | ND(65) | ND(6.1) | ND(530) | ND(530) | ND(580) | ND(5.2) |
| 1,3-Dichloropropane | ND(65) | ND(6.1) | ND(530) | ND(530) | ND(580) | ND(5.2) |
| 1,4-Dichlorobenzene | ND(65) | ND(6.1) | ND(530) | ND(530) | ND(580) | ND(5.2) |
| 2,2-Dichloropropane | ND(65) | ND(6.1) | ND(530) | ND(530) | ND(580) | ND(5.2) |
| 2-Butanone | ND(130) | ND(12) | ND(1000) | ND(1000) | ND(1200) | ND(10) |
| 2-Chlorotoluene | ND(65) | ND(6.1) | ND(530) | ND(530) | ND(580) | ND(5.2) |
| 4-Chlorotoluene | ND(65) | ND(6.1) | ND(530) | ND(530) | ND(580) | ND(5.2) |
| Acetone | ND(130) | ND(12) | ND(1000) | ND(1000) | ND(1200) | ND(10) |
| Benzene | ND(65) | ND(6.1) | ND(530) | ND(530) | 5020 | ND(5.2) |
| Bromobenzene | ND(65) | ND(6.1) | ND(530) | ND(530) | ND(580) | ND(5.2) |
| Bromochloromethane | ND(65) | ND(6.1) | ND(530) | ND(530) | ND(580) | ND(5.2) |
| Bromodichloromethane | ND(65) | ND(6.1) | ND(530) | ND(530) | ND(580) | ND(5.2) |
| Bromoform | ND(65) | ND(6.1) | ND(530) | ND(530) | ND(580) | ND(5.2) |
| Bromomethane | ND(65) | ND(6.1) | ND(530) | ND(530) | ND(580) | ND(5.2) |
| Carbon Tetrachloride | ND(65) | ND(6.1) | ND(530) | ND(530) | ND(580) | ND(5.2) |
| Chlorobenzene | ND(65) | ND(6.1) | ND(530) | ND(530) | ND(580) | ND(5.2) |
| Chloroethane | ND(65) | ND(6.1) | ND(530) | ND(530) | ND(580) | ND(5.2) |
| Chloroform | ND(65) | ND(6.1) | ND(530) | ND(530) | ND(580) | ND(5.2) |
| Chloromethane | ND(65) | ND(6.1) | ND(530) | ND(530) | ND(580) | ND(5.2) |
| Dibromochloromethane | ND(65) | ND(6.1) | ND(530) | ND(530) | ND(580) | ND(5.2) |
| Dibromomethane | ND(65) | ND(6.1) | ND(530) | ND(530) | ND(580) | ND(5.2) |
| Dichlorodifluoromethane | ND(65) | ND(6.1) | ND(530) | ND(530) | ND(580) | ND(5.2) |
| Ethyl benzene | ND(65) | ND(6.1) | 6860 | 2530 | 9330 | ND(5.2) |
| Hexachlorobutadiene | ND(65) | ND(6.1) | ND(530) | ND(530) | ND(580) | ND(5.2) |
| Isopropylbenzene | ND(65) | ND(6.1) | 1800 | 886 | 2570 | ND(5.2) |
| Methylene chloride | ND(65) | ND(6.1) | ND(530) | ND(530) | ND(580) | ND(5.2) |
| Naphthalene | ND(65) | ND(6.1) | 43300 | 21100 | 21000 | ND(5.2) |
| Styrene | ND(65) | ND(6.1) | ND(530) | ND(530) | ND(580) | ND(5.2) |
| Tetrachloroethene | ND(65) | ND(6.1) | ND(530) | ND(530) | ND(580) | ND(5.2) |
| Toluene | ND(65) | ND(6.1) | 25300 | 10500 | 49000 | ND(5.2) |
| Trichloroethene | ND(65) | ND(6.1) | ND(530) | ND(530) | ND(580) | ND(5.2) |
| Trichlorofluoromethane | ND(65) | ND(6.1) | ND(530) | ND(530) | ND(580) | ND(5.2) |
| Vinyl chloride | ND(65) | ND(6.1) | ND(530) | ND(530) | ND(580) | ND(5.2) |
| cis-1,2-Dichloroethene | ND(65) | ND(6.1) | ND(530) | ND(530) | ND(580) | ND(5.2) |
| cis-1,3-Dichloropropene | ND(65) | ND(6.1) | ND(530) | ND(530) | ND(580) | ND(5.2) |
| m & p-Xylene | ND(65) | ND(6.1) | 82400 | 60100 | 99200 | ND(5.2) |
| n-Butylbenzene | ND(65) | ND(6.1) | ND(530) | ND(530) | ND(580) | ND(5.2) |
| n-Propylbenzene | ND(65) | ND(6.1) | 3380 | 907 | 3970 | ND(5.2) |
| o-Xylene | ND(65) | ND(6.1) | 28500 | 22200 | 38500 | ND(5.2) |
| p-Isopropyltoluene | ND(65) | ND(6.1) | 3800 | 3380 | 5720 | ND(5.2) |
| sec-Butylbenzene | ND(65) | ND(6.1) | 2430 | 2000 | 3500 | ND(5.2) |
| tert-Butylbenzene | ND(65) | ND(6.1) | ND(530) | ND(530) | ND(580) | ND(5.2) |
| trans-1,2-Dichloroethene | ND(65) | ND(6.1) | ND(530) | ND(530) | ND(580) | ND(5.2) |

# 1994 North Airfield Soil Results

| Sample ID | 94FWN093SL | 94FWN094SL | 94FWN095SL | 94FWN097SL | 94FWN098SL | 94FWN099SL |
|---|---|---|---|---|---|---|
| Date | 9/7/94 | 9/7/94 | 9/7/94 | 9/7/94 | 9/7/94 | 9/8/94 |
| Well / Boring ID | BN9 | BN9 | BN9 | BN9 | BN9 | BN10 |
| Depth | 0 | 5 | 10 | 10 | 15 | 0 |
| Sample Type | PR | PR | PR | QC | PR | PR |
| trans-1,3-Dichloropropene | ND(65) | ND(6.1) | ND(530) | ND(530) | ND(580) | ND(5.2) |
| EPA 7421 | | | | | | |
| Lead (GFAA) | 9.7 | 6 | 6 | 5.2 | 3.5 | 115 |
| Other | | | | | | |
| Ammonia, as N (350.1) | NA | NA | NA | NA | NA | NA |
| Ammonia, as N (Water Soluble) (350.1) | NA | NA | ND(0.5) | ND(0.5) | NA | NA |
| Nitrate, as N (Water Soluble)(353.1-354.1) | NA | NA | ND(0.3) | ND(0.3) | NA | NA |
| Total Kjeldahl Nitrogen (351.2) | NA | NA | 76 | 116 | NA | NA |
| Total Organic Carbon (415.1) | NA | NA | 1460 | 1160 | NA | NA |
| Total Organic Carbon Quad 1 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 2 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 3 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 4 (415.1) | NA | NA | NA | NA | NA | NA |

# 1994 North Airfield Soil Results

| Sample ID | 94FWN100SL | 94FWN101SL | 94FWN102SL | 94FWN103SL | 94FWN104SL | 94FWN105SL |
|---|---|---|---|---|---|---|
| Date | 9/8/94 | 9/8/94 | 9/8/94 | 9/8/94 | 9/8/94 | 9/8/94 |
| Well / Boring ID | BN10 | BN10 | BN10 | BN11 | BN11 | BN11 |
| Depth | 5 | 10 | 15 | 0 | 5 | 10 |
| Sample Type | PR | PR | PR | PR | PR | PR |
| M8100 | | | | | | |
| Diesel Range Organics | 6.1 | ND(4.2) | 341 | 8.2 | ND(4.2) | 508 |
| M8015 | | | | | | |
| Gasoline Range Organics | ND(1.2) | ND(1.1) | 78 | ND(1) | ND(1) | 144 |
| 8260 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND(5.9) | ND(5.3) | ND(55) | ND(5.2) | ND(5.2) | ND(5.1) |
| 1,1,1-Trichloroethane | ND(5.9) | ND(5.3) | ND(55) | ND(5.2) | ND(5.2) | ND(5.1) |
| 1,1,2,2-Tetrachloroethane | ND(5.9) | ND(5.3) | ND(55) | ND(5.2) | ND(5.2) | ND(5.1) |
| 1,1,2-Trichloroethane | ND(5.9) | ND(5.3) | ND(55) | ND(5.2) | ND(5.2) | ND(5.1) |
| 1,1-Dichloroethane | ND(5.9) | ND(5.3) | ND(55) | ND(5.2) | ND(5.2) | ND(5.1) |
| 1,1-Dichloroethene | ND(5.9) | ND(5.3) | ND(55) | ND(5.2) | ND(5.2) | ND(5.1) |
| 1,1-Dichloropropene | ND(5.9) | ND(5.3) | ND(55) | ND(5.2) | ND(5.2) | ND(5.1) |
| 1,2,3-Trichlorobenzene | ND(5.9) | ND(5.3) | ND(55) | ND(5.2) | ND(5.2) | ND(5.1) |
| 1,2,3-Trichloropropane | ND(5.9) | ND(5.3) | ND(55) | ND(5.2) | ND(5.2) | ND(5.1) |
| 1,2,4-Trichlorobenzene | ND(5.9) | ND(5.3) | ND(55) | ND(5.2) | ND(5.2) | ND(5.1) |
| 1,2,4-Trimethylbenzene | ND(5.9) | ND(5.3) | 1980 | ND(5.2) | ND(5.2) | ND(5.1) |
| 1,2-Dibromo-3-chloropropane | ND(5.9) | ND(5.3) | ND(55) | ND(5.2) | ND(5.2) | ND(5.1) |
| 1,2-Dibromoethane | ND(5.9) | ND(5.3) | ND(55) | ND(5.2) | ND(5.2) | ND(5.1) |
| 1,2-Dichlorobenzene | ND(5.9) | ND(5.3) | ND(55) | ND(5.2) | ND(5.2) | ND(5.1) |
| 1,2-Dichloroethane | ND(5.9) | ND(5.3) | ND(55) | ND(5.2) | ND(5.2) | ND(5.1) |
| 1,2-Dichloropropane | ND(5.9) | ND(5.3) | ND(55) | ND(5.2) | ND(5.2) | ND(5.1) |
| 1,3,5-Trimethylbenzene | ND(5.9) | ND(5.3) | 1210 | ND(5.2) | ND(5.2) | 8.1 |
| 1,3-Dichlorobenzene | ND(5.9) | ND(5.3) | ND(55) | ND(5.2) | ND(5.2) | ND(5.1) |
| 1,3-Dichloropropane | ND(5.9) | ND(5.3) | ND(55) | ND(5.2) | ND(5.2) | ND(5.1) |
| 1,4-Dichlorobenzene | ND(5.9) | ND(5.3) | ND(55) | ND(5.2) | ND(5.2) | ND(5.1) |
| 2,2-Dichloropropane | ND(5.9) | ND(5.3) | ND(55) | ND(5.2) | ND(5.2) | ND(5.1) |
| 2-Butanone | ND(12) | ND(11) | ND(110) | ND(10) | ND(10) | ND(10) |
| 2-Chlorotoluene | ND(5.9) | ND(5.3) | ND(55) | ND(5.2) | ND(5.2) | ND(5.1) |
| 4-Chlorotoluene | ND(5.9) | ND(5.3) | ND(55) | ND(5.2) | ND(5.2) | ND(5.1) |
| Acetone | ND(12) | ND(11) | ND(110) | ND(10) | ND(10) | ND(10) |
| Benzene | ND(5.9) | ND(5.3) | ND(55) | ND(5.2) | ND(5.2) | ND(5.1) |
| Bromobenzene | ND(5.9) | ND(5.3) | ND(55) | ND(5.2) | ND(5.2) | ND(5.1) |
| Bromochloromethane | ND(5.9) | ND(5.3) | ND(55) | ND(5.2) | ND(5.2) | ND(5.1) |
| Bromodichloromethane | ND(5.9) | ND(5.3) | ND(55) | ND(5.2) | ND(5.2) | ND(5.1) |
| Bromoform | ND(5.9) | ND(5.3) | ND(55) | ND(5.2) | ND(5.2) | ND(5.1) |
| Bromomethane | ND(5.9) | ND(5.3) | ND(55) | ND(5.2) | ND(5.2) | ND(5.1) |
| Carbon Tetrachloride | ND(5.9) | ND(5.3) | ND(55) | ND(5.2) | ND(5.2) | ND(5.1) |
| Chlorobenzene | ND(5.9) | ND(5.3) | ND(55) | ND(5.2) | ND(5.2) | ND(5.1) |
| Chloroethane | ND(5.9) | ND(5.3) | ND(55) | ND(5.2) | ND(5.2) | ND(5.1) |
| Chloroform | ND(5.9) | ND(5.3) | ND(55) | ND(5.2) | ND(5.2) | ND(5.1) |
| Chloromethane | ND(5.9) | ND(5.3) | ND(55) | ND(5.2) | ND(5.2) | ND(5.1) |
| Dibromochloromethane | ND(5.9) | ND(5.3) | ND(55) | ND(5.2) | ND(5.2) | ND(5.1) |
| Dibromomethane | ND(5.9) | ND(5.3) | ND(55) | ND(5.2) | ND(5.2) | ND(5.1) |
| Dichlorodifluoromethane | ND(5.9) | ND(5.3) | ND(55) | ND(5.2) | ND(5.2) | ND(5.1) |
| Ethyl benzene | ND(5.9) | ND(5.3) | ND(55) | ND(5.2) | ND(5.2) | ND(5.1) |
| Hexachlorobutadiene | ND(5.9) | ND(5.3) | ND(55) | ND(5.2) | ND(5.2) | ND(5.1) |
| Isopropylbenzene | ND(5.9) | ND(5.3) | ND(55) | ND(5.2) | ND(5.2) | ND(5.1) |
| Methylene chloride | ND(5.9) | ND(5.3) | ND(55) | ND(5.2) | ND(5.2) | 5.1 |
| Naphthalene | ND(5.9) | ND(5.3) | 1210 | ND(5.2) | ND(5.2) | 23 |
| Styrene | ND(5.9) | ND(5.3) | ND(55) | ND(5.2) | ND(5.2) | ND(5.1) |
| Tetrachloroethene | ND(5.9) | ND(5.3) | ND(55) | ND(5.2) | ND(5.2) | ND(5.1) |
| Toluene | ND(5.9) | ND(5.3) | ND(55) | ND(5.2) | ND(5.2) | ND(5.1) |
| Trichloroethene | ND(5.9) | ND(5.3) | ND(55) | ND(5.2) | ND(5.2) | ND(5.1) |
| Trichlorofluoromethane | ND(5.9) | ND(5.3) | ND(55) | ND(5.2) | ND(5.2) | ND(5.1) |
| Vinyl chloride | ND(5.9) | ND(5.3) | ND(55) | ND(5.2) | ND(5.2) | ND(5.1) |
| cis-1,2-Dichloroethene | ND(5.9) | ND(5.3) | ND(55) | ND(5.2) | ND(5.2) | ND(5.1) |
| cis-1,3-Dichloropropene | ND(5.9) | ND(5.3) | ND(55) | ND(5.2) | ND(5.2) | ND(5.1) |
| m & p-Xylene | ND(5.9) | ND(5.3) | 440 | ND(5.2) | ND(5.2) | ND(5.1) |
| n-Butylbenzene | ND(5.9) | ND(5.3) | ND(55) | ND(5.2) | ND(5.2) | ND(5.1) |
| n-Propylbenzene | ND(5.9) | ND(5.3) | ND(55) | ND(5.2) | ND(5.2) | ND(5.1) |
| o-Xylene | ND(5.9) | ND(5.3) | 143 | ND(5.2) | ND(5.2) | ND(5.1) |
| p-Isopropyltoluene | ND(5.9) | ND(5.3) | 198 | ND(5.2) | ND(5.2) | ND(5.1) |
| sec-Butylbenzene | ND(5.9) | ND(5.3) | ND(55) | ND(5.2) | ND(5.2) | ND(5.1) |
| tert-Butylbenzene | ND(5.9) | ND(5.3) | ND(55) | ND(5.2) | ND(5.2) | ND(5.1) |
| trans-1,2-Dichloroethene | ND(5.9) | ND(5.3) | ND(55) | ND(5.2) | ND(5.2) | ND(5.1) |

# 1994 North Airfield Soil Results

| Sample ID | 94FWN100SL | 94FWN101SL | 94FWN102SL | 94FWN103SL | 94FWN104SL | 94FWN105SL |
|---|---|---|---|---|---|---|
| Date | 9/8/94 | 9/8/94 | 9/8/94 | 9/8/94 | 9/8/94 | 9/8/94 |
| Well / Boring ID | BN10 | BN10 | BN10 | BN11 | BN11 | BN11 |
| Depth | 5 | 10 | 15 | 0 | 5 | 10 |
| Sample Type | PR | PR | PR | PR | PR | PR |
| trans-1,3-Dichloropropene | ND(5.9) | ND(5.3) | ND(55) | ND(5.2) | ND(5.2) | ND(5.1) |
| EPA 7421 | | | | | | |
| Lead (GFAA) | 6.3 | 3.8 | 4.1 | 9.6 | 4.9 | 4.4 |
| Other | | | | | | |
| Ammonia, as N (350.1) | NA | NA | 20 | NA | NA | NA |
| Ammonia, as N (Water Soluble) (350.1) | NA | NA | NA | NA | NA | NA |
| Nitrate, as N (Water Soluble)(353.1-354.1) | NA | NA | ND(0.3) | NA | NA | NA |
| Total Kjeldahl Nitrogen (351.2) | NA | NA | 494 | NA | NA | NA |
| Total Organic Carbon (415.1) | NA | NA | 560 | NA | NA | NA |
| Total Organic Carbon Quad 1 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 2 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 3 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 4 (415.1) | NA | NA | NA | NA | NA | NA |

# 1994 North Airfield Soil Results

| Sample ID | 94FWN106SL | 94FWN108SL | 94FWN109SL | 94FWN110SL | 94FWN111SL | 94FWN112SL |
|---|---|---|---|---|---|---|
| Date | 9/8/94 | 9/8/94 | 9/8/94 | 9/8/94 | 9/8/94 | 9/8/94 |
| Well / Boring ID | BN11 | BN11 | BN12 | BN12 | BN12 | BN12 |
| Depth | 15 | 15 | 0 | 5 | 10 | 15 |
| Sample Type | PR | QC | PR | PR | PR | PR |
| M8100 | | | | | | |
| Diesel Range Organics | 3470 | 3760 | 1860 | 4.2 | 2460 | 4910 |
| M8015 | | | | | | |
| Gasoline Range Organics | 1890 | 1020 | ND(1) | ND(1) | 1120 | 1580 |
| 8260 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND(520) | ND(52) | ND(5.2) | ND(5.1) | ND(51) | ND(52) |
| 1,1,1-Trichloroethane | ND(520) | ND(52) | ND(5.2) | ND(5.1) | ND(51) | ND(52) |
| 1,1,2,2-Tetrachloroethane | ND(520) | ND(52) | ND(5.2) | ND(5.1) | ND(51) | ND(52) |
| 1,1,2-Trichloroethane | ND(520) | ND(52) | ND(5.2) | ND(5.1) | ND(51) | ND(52) |
| 1,1-Dichloroethane | ND(520) | ND(52) | ND(5.2) | ND(5.1) | ND(51) | ND(52) |
| 1,1-Dichloroethene | ND(520) | ND(52) | ND(5.2) | ND(5.1) | ND(51) | ND(52) |
| 1,1-Dichloropropene | ND(520) | ND(52) | ND(5.2) | ND(5.1) | ND(51) | ND(52) |
| 1,2,3-Trichlorobenzene | ND(520) | ND(52) | ND(5.2) | ND(5.1) | ND(51) | ND(52) |
| 1,2,3-Trichloropropane | ND(520) | ND(52) | ND(5.2) | ND(5.1) | ND(51) | ND(52) |
| 1,2,4-Trichlorobenzene | ND(520) | ND(52) | ND(5.2) | ND(5.1) | ND(51) | ND(52) |
| 1,2,4-Trimethylbenzene | 65100 | 35700 | ND(5.2) | ND(5.1) | 38800 | 168000 |
| 1,2-Dibromo-3-chloropropane | ND(520) | ND(52) | ND(5.2) | ND(5.1) | ND(51) | ND(52) |
| 1,2-Dibromoethane | ND(520) | ND(52) | ND(5.2) | ND(5.1) | ND(51) | ND(52) |
| 1,2-Dichlorobenzene | ND(520) | ND(52) | ND(5.2) | ND(5.1) | ND(51) | ND(52) |
| 1,2-Dichloroethane | ND(520) | ND(52) | ND(5.2) | ND(5.1) | ND(51) | ND(52) |
| 1,2-Dichloropropane | ND(520) | ND(52) | ND(5.2) | ND(5.1) | ND(51) | ND(52) |
| 1,3,5-Trimethylbenzene | 30500 | 16800 | ND(5.2) | ND(5.1) | 17400 | 126000 |
| 1,3-Dichlorobenzene | ND(520) | ND(52) | ND(5.2) | ND(5.1) | ND(51) | ND(52) |
| 1,3-Dichloropropane | ND(520) | ND(52) | ND(5.2) | ND(5.1) | ND(51) | ND(52) |
| 1,4-Dichlorobenzene | ND(520) | ND(52) | ND(5.2) | ND(5.1) | ND(51) | ND(52) |
| 2,2-Dichloropropane | ND(520) | ND(52) | ND(5.2) | ND(5.1) | ND(51) | ND(52) |
| 2-Butanone | ND(1000) | ND(100) | ND(10) | ND(10) | ND(102) | ND(100) |
| 2-Chlorotoluene | ND(520) | ND(52) | ND(5.2) | ND(5.1) | ND(51) | ND(52) |
| 4-Chlorotoluene | ND(520) | ND(52) | ND(5.2) | ND(5.1) | ND(51) | ND(52) |
| Acetone | ND(1000) | ND(100) | ND(10) | ND(10) | ND(102) | ND(100) |
| Benzene | ND(520) | ND(52) | ND(5.2) | ND(5.1) | 143 | 3360 |
| Bromobenzene | ND(520) | ND(52) | ND(5.2) | ND(5.1) | ND(51) | ND(52) |
| Bromochloromethane | ND(520) | ND(52) | ND(5.2) | ND(5.1) | ND(51) | ND(52) |
| Bromodichloromethane | ND(520) | ND(52) | ND(5.2) | ND(5.1) | ND(51) | ND(52) |
| Bromoform | ND(520) | ND(52) | ND(5.2) | ND(5.1) | ND(51) | ND(52) |
| Bromomethane | ND(520) | ND(52) | ND(5.2) | ND(5.1) | ND(51) | ND(52) |
| Carbon Tetrachloride | ND(520) | ND(52) | ND(5.2) | ND(5.1) | ND(51) | ND(52) |
| Chlorobenzene | ND(520) | ND(52) | ND(5.2) | ND(5.1) | ND(51) | ND(52) |
| Chloroethane | ND(520) | ND(52) | ND(5.2) | ND(5.1) | ND(51) | ND(52) |
| Chloroform | ND(520) | ND(52) | ND(5.2) | ND(5.1) | ND(51) | ND(52) |
| Chloromethane | ND(520) | ND(52) | ND(5.2) | ND(5.1) | ND(51) | ND(52) |
| Dibromochloromethane | ND(520) | ND(52) | ND(5.2) | ND(5.1) | ND(51) | ND(52) |
| Dibromomethane | ND(520) | ND(52) | ND(5.2) | ND(5.1) | ND(51) | ND(52) |
| Dichlorodifluoromethane | ND(520) | ND(52) | ND(5.2) | ND(5.1) | ND(51) | ND(52) |
| Ethyl benzene | 16800 | 4300 | ND(5.2) | ND(5.1) | 1220 | 18900 |
| Hexachlorobutadiene | ND(520) | ND(52) | ND(5.2) | ND(5.1) | ND(51) | ND(52) |
| Isopropylbenzene | 4940 | 1260 | ND(5.2) | ND(5.1) | 786 | 5150 |
| Methylene chloride | 840 | 57 | ND(5.2) | ND(5.1) | ND(51) | ND(52) |
| Naphthalene | 17800 | 10500 | ND(5.2) | ND(5.1) | 13300 | 35800 |
| Styrene | ND(520) | ND(52) | ND(5.2) | ND(5.1) | ND(51) | ND(52) |
| Tetrachloroethene | ND(520) | ND(52) | ND(5.2) | ND(5.1) | ND(51) | ND(52) |
| Toluene | 24200 | 6300 | ND(5.2) | ND(5.1) | 3060 | 35800 |
| Trichloroethene | ND(520) | ND(52) | ND(5.2) | ND(5.1) | ND(51) | ND(52) |
| Trichlorofluoromethane | ND(520) | ND(52) | ND(5.2) | ND(5.1) | ND(51) | ND(52) |
| Vinyl chloride | ND(520) | ND(52) | ND(5.2) | ND(5.1) | ND(51) | ND(52) |
| cis-1,2-Dichloroethene | ND(520) | ND(52) | ND(5.2) | ND(5.1) | ND(51) | ND(52) |
| cis-1,3-Dichloropropene | ND(520) | ND(52) | ND(5.2) | ND(5.1) | ND(51) | ND(52) |
| m & p-Xylene | 77700 | 32500 | ND(5.2) | ND(5.1) | 20400 | 116000 |
| n-Butylbenzene | ND(520) | ND(52) | ND(5.2) | ND(5.1) | ND(51) | 100 |
| n-Propylbenzene | 12600 | 3250 | ND(5.2) | ND(5.1) | 2140 | 15800 |
| o-Xylene | 28400 | 12600 | ND(5.2) | ND(5.1) | 11200 | 49400 |
| p-Isopropyltoluene | 4620 | 2310 | ND(5.2) | ND(5.1) | 1530 | 631 |
| sec-Butylbenzene | 3260 | 1260 | ND(5.2) | ND(5.1) | 694 | 3470 |
| tert-Butylbenzene | ND(520) | ND(52) | ND(5.2) | ND(5.1) | ND(51) | ND(52) |
| trans-1,2-Dichloroethene | ND(520) | ND(52) | ND(5.2) | ND(5.1) | ND(51) | ND(52) |

# 1994 North Airfield Soil Results

| Sample ID | 94FWN106SL | 94FWN108SL | 94FWN109SL | 94FWN110SL | 94FWN111SL | 94FWN112SL |
|---|---|---|---|---|---|---|
| Date | 9/8/94 | 9/8/94 | 9/8/94 | 9/8/94 | 9/8/94 | 9/8/94 |
| Well / Boring ID | BN11 | BN11 | BN12 | BN12 | BN12 | BN12 |
| Depth | 15 | 15 | 0 | 5 | 10 | 15 |
| Sample Type | PR | QC | PR | PR | PR | PR |
| trans-1,3-Dichloropropene | ND(520) | ND(52) | ND(5.2) | ND(5.1) | ND(51) | ND(52) |
| EPA 7421 | | | | | | |
| Lead (GFAA) | 4.2 | 4.4 | 8.7 | 3.6 | 6.2 | 6.9 |
| Other | | | | | | |
| Ammonia, as N (350.1) | ND(5.2) | ND(5.2) | NA | NA | NA | 2.5 |
| Ammonia, as N (Water Soluble) (350.1) | NA | NA | NA | NA | NA | NA |
| Nitrate, as N (Water Soluble)(353.1-354.1) | ND(0.3) | ND(0.3) | NA | NA | NA | ND(0.3) |
| Total Kjeldahl Nitrogen (351.2) | 99 | 77 | NA | NA | NA | 54 |
| Total Organic Carbon (415.1) | 2520 | 2610 | NA | NA | NA | 2300 |
| Total Organic Carbon Quad 1 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 2 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 3 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 4 (415.1) | NA | NA | NA | NA | NA | NA |

# 1994 North Airfield Soil Results

| Sample ID | 94FWN113SL | 94FWN114SL | 94FWN115SL | 94FWN116SL | 94FWN117SL | 94FWN118SL |
|---|---|---|---|---|---|---|
| Date | 9/8/94 | 9/8/94 | 9/8/94 | 9/8/94 | 9/10/94 | 9/10/94 |
| Well / Boring ID | BN13 | BN13 | BN13 | BN13 | BN16 | BN16 |
| Depth | 0 | 5 | 10 | 15 | 0 | 5 |
| Sample Type | PR | PR | PR | PR | PR | PR |
| M8100 | | | | | | |
| Diesel Range Organics | 38 | 5.1 | ND(4.1) | 2250 | ND(4.1) | ND(4.1) |
| M8015 | | | | | | |
| Gasoline Range Organics | ND(1) | 1 | ND(1) | 1110 | ND(1) | ND(1) |
| 8260 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND(5.3) | ND(5.2) | ND(52) | ND(550) | ND(5.1) | ND(5.2) |
| 1,1,1-Trichloroethane | ND(5.3) | ND(5.2) | ND(52) | ND(550) | ND(5.1) | ND(5.2) |
| 1,1,2,2-Tetrachloroethane | ND(5.3) | ND(5.2) | ND(52) | ND(550) | ND(5.1) | ND(5.2) |
| 1,1,2-Trichloroethane | ND(5.3) | ND(5.2) | ND(52) | ND(550) | ND(5.1) | ND(5.2) |
| 1,1-Dichloroethane | ND(5.3) | ND(5.2) | ND(52) | ND(550) | ND(5.1) | ND(5.2) |
| 1,1-Dichloroethene | ND(5.3) | ND(5.2) | ND(52) | ND(550) | ND(5.1) | ND(5.2) |
| 1,1-Dichloropropene | ND(5.3) | ND(5.2) | ND(52) | ND(550) | ND(5.1) | ND(5.2) |
| 1,2,3-Trichlorobenzene | ND(5.3) | ND(5.2) | ND(52) | ND(550) | ND(5.1) | ND(5.2) |
| 1,2,3-Trichloropropane | ND(5.3) | ND(5.2) | ND(52) | ND(550) | ND(5.1) | ND(5.2) |
| 1,2,4-Trichlorobenzene | ND(5.3) | ND(5.2) | ND(52) | ND(550) | ND(5.1) | ND(5.2) |
| 1,2,4-Trimethylbenzene | ND(5.3) | ND(5.2) | 598 | 81800 | ND(5.1) | ND(5.2) |
| 1,2-Dibromo-3-chloropropane | ND(5.3) | ND(5.2) | ND(52) | ND(550) | ND(5.1) | ND(5.2) |
| 1,2-Dibromoethane | ND(5.3) | ND(5.2) | ND(52) | ND(550) | ND(5.1) | ND(5.2) |
| 1,2-Dichlorobenzene | ND(5.3) | ND(5.2) | ND(52) | ND(550) | ND(5.1) | ND(5.2) |
| 1,2-Dichloroethane | ND(5.3) | ND(5.2) | ND(52) | ND(550) | ND(5.1) | ND(5.2) |
| 1,2-Dichloropropane | ND(5.3) | ND(5.2) | ND(52) | ND(550) | ND(5.1) | ND(5.2) |
| 1,3,5-Trimethylbenzene | ND(5.3) | ND(5.2) | 186 | 39800 | ND(5.1) | ND(5.2) |
| 1,3-Dichlorobenzene | ND(5.3) | ND(5.2) | ND(52) | ND(550) | ND(5.1) | ND(5.2) |
| 1,3-Dichloropropane | ND(5.3) | ND(5.2) | ND(52) | ND(550) | ND(5.1) | ND(5.2) |
| 1,4-Dichlorobenzene | ND(5.3) | ND(5.2) | ND(52) | ND(550) | ND(5.1) | ND(5.2) |
| 2,2-Dichloropropane | ND(5.3) | ND(5.2) | ND(52) | ND(550) | ND(5.1) | ND(5.2) |
| 2-Butanone | ND(10) | ND(10) | ND(103) | 1440 | ND(10) | ND(10) |
| 2-Chlorotoluene | ND(5.3) | ND(5.2) | ND(52) | ND(550) | ND(5.1) | ND(5.2) |
| 4-Chlorotoluene | ND(5.3) | ND(5.2) | ND(52) | ND(550) | ND(5.1) | ND(5.2) |
| Acetone | ND(10) | ND(10) | ND(103) | ND(1100) | ND(10) | ND(10) |
| Benzene | ND(5.3) | ND(5.2) | ND(52) | ND(550) | ND(5.1) | ND(5.2) |
| Bromobenzene | ND(5.3) | ND(5.2) | ND(52) | ND(550) | ND(5.1) | ND(5.2) |
| Bromochloromethane | ND(5.3) | ND(5.2) | ND(52) | ND(550) | ND(5.1) | ND(5.2) |
| Bromodichloromethane | ND(5.3) | ND(5.2) | ND(52) | ND(550) | ND(5.1) | ND(5.2) |
| Bromoform | ND(5.3) | ND(5.2) | ND(52) | ND(550) | ND(5.1) | ND(5.2) |
| Bromomethane | ND(5.3) | ND(5.2) | ND(52) | ND(550) | ND(5.1) | ND(5.2) |
| Carbon Tetrachloride | ND(5.3) | ND(5.2) | ND(52) | ND(550) | ND(5.1) | ND(5.2) |
| Chlorobenzene | ND(5.3) | ND(5.2) | ND(52) | ND(550) | ND(5.1) | ND(5.2) |
| Chloroethane | ND(5.3) | ND(5.2) | ND(52) | ND(550) | ND(5.1) | ND(5.2) |
| Chloroform | ND(5.3) | ND(5.2) | ND(52) | ND(550) | ND(5.1) | ND(5.2) |
| Chloromethane | ND(5.3) | ND(5.2) | ND(52) | ND(550) | ND(5.1) | ND(5.2) |
| Dibromochloromethane | ND(5.3) | ND(5.2) | ND(52) | ND(550) | ND(5.1) | ND(5.2) |
| Dibromomethane | ND(5.3) | ND(5.2) | ND(52) | ND(550) | ND(5.1) | ND(5.2) |
| Dichlorodifluoromethane | ND(5.3) | ND(5.2) | ND(52) | ND(550) | ND(5.1) | ND(5.2) |
| Ethyl benzene | ND(5.3) | ND(5.2) | ND(52) | 8520 | ND(5.1) | ND(5.2) |
| Hexachlorobutadiene | ND(5.3) | ND(5.2) | ND(52) | ND(550) | ND(5.1) | ND(5.2) |
| Isopropylbenzene | ND(5.3) | ND(5.2) | ND(52) | 3870 | ND(5.1) | ND(5.2) |
| Methylene chloride | 7.1 | ND(5.2) | ND(52) | ND(550) | ND(5.1) | 6.1 |
| Naphthalene | ND(5.3) | ND(5.2) | 794 | 13300 | 5.7 | ND(5.2) |
| Styrene | ND(5.3) | ND(5.2) | ND(52) | ND(550) | ND(5.1) | ND(5.2) |
| Tetrachloroethene | ND(5.3) | ND(5.2) | ND(52) | ND(550) | ND(5.1) | ND(5.2) |
| Toluene | ND(5.3) | ND(5.2) | 64 | 2990 | ND(5.1) | ND(5.2) |
| Trichloroethene | ND(5.3) | ND(5.2) | ND(52) | ND(550) | ND(5.1) | ND(5.2) |
| Trichlorofluoromethane | ND(5.3) | ND(5.2) | ND(52) | ND(550) | ND(5.1) | ND(5.2) |
| Vinyl chloride | ND(5.3) | ND(5.2) | ND(52) | ND(550) | ND(5.1) | ND(5.2) |
| cis-1,2-Dichloroethene | ND(5.3) | ND(5.2) | ND(52) | ND(550) | ND(5.1) | ND(5.2) |
| cis-1,3-Dichloropropene | ND(5.3) | ND(5.2) | ND(52) | ND(550) | ND(5.1) | ND(5.2) |
| m & p-Xylene | ND(5.3) | ND(5.2) | 196 | 68600 | ND(5.1) | ND(5.2) |
| n-Butylbenzene | ND(5.3) | ND(5.2) | ND(52) | ND(550) | ND(5.1) | ND(5.2) |
| n-Propylbenzene | ND(5.3) | ND(5.2) | ND(52) | 10700 | ND(5.1) | ND(5.2) |
| o-Xylene | ND(5.3) | ND(5.2) | 80 | 17700 | ND(5.1) | ND(5.2) |
| p-Isopropyltoluene | ND(5.3) | ND(5.2) | ND(52) | 3760 | ND(5.1) | ND(5.2) |
| sec-Butylbenzene | ND(5.3) | ND(5.2) | ND(52) | 3540 | ND(5.1) | ND(5.2) |
| tert-Butylbenzene | ND(5.3) | ND(5.2) | ND(52) | ND(550) | ND(5.1) | ND(5.2) |
| trans-1,2-Dichloroethene | ND(5.3) | ND(5.2) | ND(52) | ND(550) | ND(5.1) | ND(5.2) |

# 1994 North Airfield Soil Results

| Sample ID | 94FWN113SL | 94FWN114SL | 94FWN115SL | 94FWN116SL | 94FWN117SL | 94FWN118SL |
|---|---|---|---|---|---|---|
| Date | 9/8/94 | 9/8/94 | 9/8/94 | 9/8/94 | 9/10/94 | 9/10/94 |
| Well / Boring ID | BN13 | BN13 | BN13 | BN13 | BN16 | BN16 |
| Depth | 0 | 5 | 10 | 15 | 0 | 5 |
| Sample Type | PR | PR | PR | PR | PR | PR |
| trans-1,3-Dichloropropene | ND(5.3) | ND(5.2) | ND(52) | ND(550) | ND(5.1) | ND(5.2) |
| EPA 7421 | | | | | | |
| Lead (GFAA) | 15 | 4.7 | 3.3 | 6 | 4.8 | 5.2 |
| Other | | | | | | |
| Ammonia, as N (350.1) | NA | NA | NA | ND(5.4) | NA | NA |
| Ammonia, as N (Water Soluble) (350.1) | NA | NA | NA | NA | NA | NA |
| Nitrate, as N (Water Soluble)(353.1-354.1) | NA | NA | NA | ND(0.3) | NA | NA |
| Total Kjeldahl Nitrogen (351.2) | NA | NA | NA | 52 | NA | NA |
| Total Organic Carbon (415.1) | NA | NA | NA | 1180 | NA | NA |
| Total Organic Carbon Quad 1 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 2 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 3 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 4 (415.1) | NA | NA | NA | NA | NA | NA |

# 1994 North Airfield Soil Results

| Sample ID | 94FWN119SL | 94FWN120SL | 94FWN121SL | 94FWN122SL | 94FWN123SL | 94FWN124SL |
|---|---|---|---|---|---|---|
| Date | 9/10/94 | 9/10/94 | 9/10/94 | 9/10/94 | 9/10/94 | 9/10/94 |
| Well / Boring ID | BN16 | BN16 | WN6 | WN6 | WN6 | WN6 |
| Depth | 10 | 15 | 0 | 5 | 10 | 15 |
| Sample Type | PR | PR | PR | PR | PR | PR |
| M8100 | | | | | | |
| Diesel Range Organics | 113 | 476 | 39 | 19400 | 1440 | 5200 |
| M8015 | | | | | | |
| Gasoline Range Organics | ND(1) | 200 | ND(1) | 888 | 734 | 343 |
| 8260 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND(51) | ND(626) | ND(5.2) | ND(55) | ND(51) | ND(54) |
| 1,1,1-Trichloroethane | ND(51) | ND(626) | ND(5.2) | ND(55) | ND(51) | ND(54) |
| 1,1,2,2-Tetrachloroethane | ND(51) | ND(626) | ND(5.2) | ND(55) | ND(51) | ND(54) |
| 1,1,2-Trichloroethane | ND(51) | ND(626) | ND(5.2) | ND(55) | ND(51) | ND(54) |
| 1,1-Dichloroethane | ND(51) | ND(626) | ND(5.2) | ND(55) | ND(51) | ND(54) |
| 1,1-Dichloroethene | ND(51) | ND(626) | ND(5.2) | ND(55) | ND(51) | ND(54) |
| 1,1-Dichloropropene | ND(51) | ND(626) | ND(5.2) | ND(55) | ND(51) | ND(54) |
| 1,2,3-Trichlorobenzene | ND(51) | ND(626) | ND(5.2) | ND(55) | ND(51) | ND(54) |
| 1,2,3-Trichloropropane | ND(51) | ND(626) | ND(5.2) | ND(55) | ND(51) | ND(54) |
| 1,2,4-Trichlorobenzene | ND(51) | ND(626) | ND(5.2) | ND(55) | ND(51) | ND(54) |
| 1,2,4-Trimethylbenzene | 711 | 103000 | ND(5.2) | 9100 | 4280 | 7190 |
| 1,2-Dibromo-3-chloropropane | ND(51) | ND(626) | ND(5.2) | ND(55) | ND(51) | ND(54) |
| 1,2-Dibromoethane | ND(51) | ND(626) | ND(5.2) | ND(55) | ND(51) | ND(54) |
| 1,2-Dichlorobenzene | ND(51) | ND(626) | ND(5.2) | ND(55) | ND(51) | ND(54) |
| 1,2-Dichloroethane | ND(51) | ND(626) | ND(5.2) | ND(55) | ND(51) | ND(54) |
| 1,2-Dichloropropane | ND(51) | ND(626) | ND(5.2) | ND(55) | ND(51) | ND(54) |
| 1,3,5-Trimethylbenzene | 244 | 43800 | ND(5.2) | 18600 | 2140 | 4290 |
| 1,3-Dichlorobenzene | ND(51) | ND(626) | ND(5.2) | ND(55) | ND(51) | ND(54) |
| 1,3-Dichloropropane | ND(51) | ND(626) | ND(5.2) | ND(55) | ND(51) | ND(54) |
| 1,4-Dichlorobenzene | ND(51) | ND(626) | ND(5.2) | ND(55) | ND(51) | ND(54) |
| 2,2-Dichloropropane | ND(51) | ND(626) | ND(5.2) | ND(55) | ND(51) | ND(54) |
| 2-Butanone | ND(102) | ND(1250) | ND(10) | ND(110) | ND(100) | ND(110) |
| 2-Chlorotoluene | ND(51) | ND(626) | ND(5.2) | ND(55) | ND(51) | ND(54) |
| 4-Chlorotoluene | ND(51) | ND(626) | ND(5.2) | ND(55) | ND(51) | ND(54) |
| Acetone | ND(102) | ND(1250) | ND(10) | 132 | ND(100) | ND(110) |
| Benzene | ND(51) | 7130 | ND(5.2) | ND(55) | ND(51) | ND(54) |
| Bromobenzene | ND(51) | ND(626) | ND(5.2) | ND(55) | ND(51) | ND(54) |
| Bromochloromethane | ND(51) | ND(626) | ND(5.2) | ND(55) | ND(51) | ND(54) |
| Bromodichloromethane | ND(51) | ND(626) | ND(5.2) | ND(55) | ND(51) | ND(54) |
| Bromoform | ND(51) | ND(626) | ND(5.2) | ND(55) | ND(51) | ND(54) |
| Bromomethane | ND(51) | ND(626) | ND(5.2) | ND(55) | ND(51) | ND(54) |
| Carbon Tetrachloride | ND(51) | ND(626) | ND(5.2) | ND(55) | ND(51) | ND(54) |
| Chlorobenzene | ND(51) | ND(626) | ND(5.2) | ND(55) | ND(51) | ND(54) |
| Chloroethane | ND(51) | ND(626) | ND(5.2) | ND(55) | ND(51) | ND(54) |
| Chloroform | ND(51) | ND(626) | ND(5.2) | ND(55) | ND(51) | ND(54) |
| Chloromethane | ND(51) | ND(626) | ND(5.2) | ND(55) | ND(51) | ND(54) |
| Dibromochloromethane | ND(51) | ND(626) | ND(5.2) | ND(55) | ND(51) | ND(54) |
| Dibromomethane | ND(51) | ND(626) | ND(5.2) | ND(55) | ND(51) | ND(54) |
| Dichlorodifluoromethane | ND(51) | ND(626) | ND(5.2) | ND(55) | ND(51) | ND(54) |
| Ethyl benzene | ND(51) | 35000 | ND(5.2) | ND(55) | ND(51) | ND(54) |
| Hexachlorobutadiene | ND(51) | ND(626) | ND(5.2) | ND(55) | ND(51) | ND(54) |
| Isopropylbenzene | ND(51) | 8380 | ND(5.2) | ND(55) | 55 | ND(54) |
| Methylene chloride | 64 | 926 | ND(5.2) | ND(55) | 112 | ND(54) |
| Naphthalene | 610 | 21300 | ND(5.2) | 23000 | 8460 | 9010 |
| Styrene | ND(51) | ND(626) | ND(5.2) | ND(55) | ND(51) | ND(54) |
| Tetrachloroethene | ND(51) | ND(626) | ND(5.2) | ND(55) | ND(51) | ND(54) |
| Toluene | ND(51) | 91400 | ND(5.2) | 88 | 75 | 118 |
| Trichloroethene | ND(51) | ND(626) | ND(5.2) | ND(55) | ND(51) | ND(54) |
| Trichlorofluoromethane | ND(51) | ND(626) | ND(5.2) | ND(55) | ND(51) | ND(54) |
| Vinyl chloride | ND(51) | ND(626) | ND(5.2) | ND(55) | ND(51) | ND(54) |
| cis-1,2-Dichloroethene | ND(51) | ND(626) | ND(5.2) | ND(55) | ND(51) | ND(54) |
| cis-1,3-Dichloropropene | ND(51) | ND(626) | ND(5.2) | ND(55) | ND(51) | ND(54) |
| m & p-Xylene | 132 | 138000 | ND(5.2) | 2850 | 826 | 3430 |
| n-Butylbenzene | ND(51) | ND(626) | ND(5.2) | ND(55) | ND(51) | ND(54) |
| n-Propylbenzene | ND(51) | 20000 | ND(5.2) | ND(55) | ND(51) | ND(54) |
| o-Xylene | 57 | 50100 | ND(5.2) | 5150 | 1120 | 2140 |
| p-Isopropyltoluene | ND(51) | 6630 | ND(5.2) | 1210 | 80 | 2250 |
| sec-Butylbenzene | ND(51) | 5260 | ND(5.2) | ND(55) | ND(51) | ND(54) |
| tert-Butylbenzene | ND(51) | ND(626) | ND(5.2) | ND(55) | ND(51) | ND(54) |
| trans-1,2-Dichloroethene | ND(51) | ND(626) | ND(5.2) | ND(55) | ND(51) | ND(54) |

# 1994 North Airfield Soil Results

| Sample ID | 94FWN119SL | 94FWN120SL | 94FWN121SL | 94FWN122SL | 94FWN123SL | 94FWN124SL |
|---|---|---|---|---|---|---|
| Date | 9/10/94 | 9/10/94 | 9/10/94 | 9/10/94 | 9/10/94 | 9/10/94 |
| Well / Boring ID | BN16 | BN16 | WN6 | WN6 | WN6 | WN6 |
| Depth | 10 | 15 | 0 | 5 | 10 | 15 |
| Sample Type | PR | PR | PR | PR | PR | PR |
| trans-1,3-Dichloropropene | ND(51) | ND(626) | ND(5.2) | ND(55) | ND(51) | ND(54) |
| EPA 7421 | | | | | | |
| Lead (GFAA) | 2.6 | 4.4 | 22 | 12 | 4.7 | 3.7 |
| Other | | | | | | |
| Ammonia, as N (350.1) | NA | 4.9 | NA | NA | NA | 3.6 |
| Ammonia, as N (Water Soluble) (350.1) | NA | NA | NA | NA | NA | NA |
| Nitrate, as N (Water Soluble)(353.1-354.1) | NA | ND(0.4) | NA | NA | NA | ND(0.3) |
| Total Kjeldahl Nitrogen (351.2) | NA | 141 | NA | NA | NA | 127 |
| Total Organic Carbon (415.1) | NA | 1540 | NA | NA | NA | 2010 |
| Total Organic Carbon Quad 1 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 2 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 3 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 4 (415.1) | NA | NA | NA | NA | NA | NA |

# 1994 North Airfield Soil Results

| Sample ID | 94FWN125SL | 94FWN126SL | 94FWN127SL | 94FWN128SL | 94FWN130SL | 94FWN131SL |
|---|---|---|---|---|---|---|
| Date | 9/10/94 | 9/10/94 | 9/10/94 | 9/10/94 | 9/10/94 | 9/10/94 |
| Well / Boring ID | WN6 | WN7 | WN7 | WN7 | WN7 | WN7 |
| Depth | 20 | 0 | 5 | 10 | 10 | 15 |
| Sample Type | PR | PR | PR | PR | QC | PR |
| M8100 | | | | | | |
| Diesel Range Organics | 297 | ND(4.1) | ND(4.4) | ND(4.3) | ND(4.3) | 93 |
| M8015 | | | | | | |
| Gasoline Range Organics | 36 | ND(1.1) | ND(1.1) | ND(1.1) | ND(1.1) | 117 |
| 8260 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND(6) | ND(5.6) | ND(5.5) | ND(5.4) | ND(5.4) | ND(53) |
| 1,1,1-Trichloroethane | ND(6) | ND(5.6) | ND(5.5) | ND(5.4) | ND(5.4) | ND(53) |
| 1,1,2,2-Tetrachloroethane | ND(6) | ND(5.6) | ND(5.5) | ND(5.4) | ND(5.4) | ND(53) |
| 1,1,2-Trichloroethane | ND(6) | ND(5.6) | ND(5.5) | ND(5.4) | ND(5.4) | ND(53) |
| 1,1-Dichloroethane | ND(6) | ND(5.6) | ND(5.5) | ND(5.4) | ND(5.4) | ND(53) |
| 1,1-Dichloroethene | ND(6) | ND(5.6) | ND(5.5) | ND(5.4) | ND(5.4) | ND(53) |
| 1,1-Dichloropropene | ND(6) | ND(5.6) | ND(5.5) | ND(5.4) | ND(5.4) | ND(53) |
| 1,2,3-Trichlorobenzene | ND(6) | ND(5.6) | ND(5.5) | ND(5.4) | ND(5.4) | ND(53) |
| 1,2,3-Trichloropropane | ND(6) | ND(5.6) | ND(5.5) | ND(5.4) | ND(5.4) | ND(53) |
| 1,2,4-Trichlorobenzene | ND(6) | ND(5.6) | ND(5.5) | ND(5.4) | ND(5.4) | ND(53) |
| 1,2,4-Trimethylbenzene | ND(6) | ND(5.6) | 24 | ND(5.4) | ND(5.4) | 1380 |
| 1,2-Dibromo-3-chloropropane | ND(6) | ND(5.6) | ND(5.5) | ND(5.4) | ND(5.4) | ND(53) |
| 1,2-Dibromoethane | ND(6) | ND(5.6) | ND(5.5) | ND(5.4) | ND(5.4) | ND(53) |
| 1,2-Dichlorobenzene | ND(6) | ND(5.6) | ND(5.5) | ND(5.4) | ND(5.4) | ND(53) |
| 1,2-Dichloroethane | ND(6) | ND(5.6) | ND(5.5) | ND(5.4) | ND(5.4) | ND(53) |
| 1,2-Dichloropropane | ND(6) | ND(5.6) | ND(5.5) | ND(5.4) | ND(5.4) | ND(53) |
| 1,3,5-Trimethylbenzene | 132 | ND(5.6) | 12 | ND(5.4) | ND(5.4) | 531 |
| 1,3-Dichlorobenzene | ND(6) | ND(5.6) | ND(5.5) | ND(5.4) | ND(5.4) | ND(53) |
| 1,3-Dichloropropane | ND(6) | ND(5.6) | ND(5.5) | ND(5.4) | ND(5.4) | ND(53) |
| 1,4-Dichlorobenzene | ND(6) | ND(5.6) | ND(5.5) | ND(5.4) | ND(5.4) | ND(53) |
| 2,2-Dichloropropane | ND(6) | ND(5.6) | ND(5.5) | ND(5.4) | ND(5.4) | ND(53) |
| 2-Butanone | ND(12) | ND(11) | 18 | ND(11) | ND(11) | ND(110) |
| 2-Chlorotoluene | ND(6) | ND(5.6) | ND(5.5) | ND(5.4) | ND(5.4) | ND(53) |
| 4-Chlorotoluene | ND(6) | ND(5.6) | ND(5.5) | ND(5.4) | ND(5.4) | ND(53) |
| Acetone | ND(12) | ND(11) | 71 | ND(11) | ND(11) | 117 |
| Benzene | ND(6) | ND(5.6) | ND(5.5) | ND(5.4) | ND(5.4) | ND(53) |
| Bromobenzene | ND(6) | ND(5.6) | ND(5.5) | ND(5.4) | ND(5.4) | ND(53) |
| Bromochloromethane | ND(6) | ND(5.6) | ND(5.5) | ND(5.4) | ND(5.4) | ND(53) |
| Bromodichloromethane | ND(6) | ND(5.6) | ND(5.5) | ND(5.4) | ND(5.4) | ND(53) |
| Bromoform | ND(6) | ND(5.6) | ND(5.5) | ND(5.4) | ND(5.4) | ND(53) |
| Bromomethane | ND(6) | ND(5.6) | ND(5.5) | ND(5.4) | ND(5.4) | ND(53) |
| Carbon Tetrachloride | ND(6) | ND(5.6) | ND(5.5) | ND(5.4) | ND(5.4) | ND(53) |
| Chlorobenzene | ND(6) | ND(5.6) | ND(5.5) | ND(5.4) | ND(5.4) | ND(53) |
| Chloroethane | ND(6) | ND(5.6) | ND(5.5) | ND(5.4) | ND(5.4) | ND(53) |
| Chloroform | ND(6) | ND(5.6) | ND(5.5) | ND(5.4) | ND(5.4) | ND(53) |
| Chloromethane | ND(6) | ND(5.6) | ND(5.5) | ND(5.4) | ND(5.4) | ND(53) |
| Dibromochloromethane | ND(6) | ND(5.6) | ND(5.5) | ND(5.4) | ND(5.4) | ND(53) |
| Dibromomethane | ND(6) | ND(5.6) | ND(5.5) | ND(5.4) | ND(5.4) | ND(53) |
| Dichlorodifluoromethane | ND(6) | ND(5.6) | ND(5.5) | ND(5.4) | ND(5.4) | ND(53) |
| Ethyl benzene | ND(6) | ND(5.6) | ND(5.5) | ND(5.4) | ND(5.4) | ND(53) |
| Hexachlorobutadiene | ND(6) | ND(5.6) | ND(5.5) | ND(5.4) | ND(5.4) | ND(53) |
| Isopropylbenzene | ND(6) | ND(5.6) | ND(5.5) | ND(5.4) | ND(5.4) | ND(53) |
| Methylene chloride | ND(6) | 9.4 | 8.6 | 8.2 | ND(5.4) | ND(53) |
| Naphthalene | 19 | ND(5.6) | 26 | ND(5.4) | ND(5.4) | 361 |
| Styrene | ND(6) | ND(5.6) | ND(5.5) | ND(5.4) | ND(5.4) | ND(53) |
| Tetrachloroethene | ND(6) | ND(5.6) | ND(5.5) | ND(5.4) | ND(5.4) | ND(53) |
| Toluene | ND(6) | ND(5.6) | ND(5.5) | ND(5.4) | ND(5.4) | ND(53) |
| Trichloroethene | ND(6) | ND(5.6) | ND(5.5) | ND(5.4) | ND(5.4) | ND(53) |
| Trichlorofluoromethane | ND(6) | ND(5.6) | ND(5.5) | ND(5.4) | ND(5.4) | ND(53) |
| Vinyl chloride | ND(6) | ND(5.6) | ND(5.5) | ND(5.4) | ND(5.4) | ND(53) |
| cis-1,2-Dichloroethene | ND(6) | ND(5.6) | ND(5.5) | ND(5.4) | ND(5.4) | ND(53) |
| cis-1,3-Dichloropropene | ND(6) | ND(5.6) | ND(5.5) | ND(5.4) | ND(5.4) | ND(53) |
| m & p-Xylene | ND(6) | ND(5.6) | 6.7 | ND(5.4) | ND(5.4) | 414 |
| n-Butylbenzene | ND(6) | ND(5.6) | ND(5.5) | ND(5.4) | ND(5.4) | ND(53) |
| n-Propylbenzene | ND(6) | ND(5.6) | ND(5.5) | ND(5.4) | ND(5.4) | ND(53) |
| o-Xylene | 46 | ND(5.6) | ND(5.5) | ND(5.4) | ND(5.4) | 138 |
| p-Isopropyltoluene | 36 | ND(5.6) | ND(5.5) | ND(5.4) | ND(5.4) | ND(53) |
| sec-Butylbenzene | ND(6) | ND(5.6) | ND(5.5) | ND(5.4) | ND(5.4) | ND(53) |
| tert-Butylbenzene | ND(6) | ND(5.6) | ND(5.5) | ND(5.4) | ND(5.4) | ND(53) |
| trans-1,2-Dichloroethene | ND(6) | ND(5.6) | ND(5.5) | ND(5.4) | ND(5.4) | ND(53) |

# 1994 North Airfield Soil Results

| Sample ID | 94FWN125SL | 94FWN126SL | 94FWN127SL | 94FWN128SL | 94FWN130SL | 94FWN131SL |
|---|---|---|---|---|---|---|
| Date | 9/10/94 | 9/10/94 | 9/10/94 | 9/10/94 | 9/10/94 | 9/10/94 |
| Well / Boring ID | WN6 | WN7 | WN7 | WN7 | WN7 | WN7 |
| Depth | 20 | 0 | 5 | 10 | 10 | 15 |
| Sample Type | PR | PR | PR | PR | QC | PR |
| trans-1,3-Dichloropropene | ND(6) | ND(5.6) | ND(5.5) | ND(5.4) | ND(5.4) | ND(53) |
| EPA 7421 | | | | | | |
| Lead (GFAA) | 2.7 | 7.8 | 6.6 | 3.5 | 3.7 | 2.5 |
| Other | | | | | | |
| Ammonia, as N (350.1) | NA | NA | NA | ND(5.4) | ND(5.3) | NA |
| Ammonia, as N (Water Soluble) (350.1) | NA | NA | NA | NA | NA | NA |
| Nitrate, as N (Water Soluble)(353.1-354.1) | NA | NA | NA | ND(0.3) | 0.7 | NA |
| Total Kjeldahl Nitrogen (351.2) | NA | NA | NA | 52 | 75 | NA |
| Total Organic Carbon (415.1) | NA | NA | NA | 494 | 245 | NA |
| Total Organic Carbon Quad 1 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 2 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 3 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 4 (415.1) | NA | NA | NA | NA | NA | NA |

# 1994 North Airfield Soil Results

| Sample ID | 94FWN132SL | 94FWN133SL | 94FWN134SL | 94FWN135SL | 94FWN136SL | 94FWN137SL |
|---|---|---|---|---|---|---|
| Date | 9/10/94 | 9/12/94 | 9/12/94 | 9/12/94 | 9/12/94 | 9/12/94 |
| Well / Boring ID | WN7 | BN15 | BN15 | BN15 | BN15 | BN14 |
| Depth | 20 | 0 | 5 | 10 | 15 | 0 |
| Sample Type | PR | PR | PR | PR | PR | PR |
| M8100 | | | | | | |
| Diesel Range Organics | 7 | 45 | 10 | 12 | 994 | 6620 |
| M8015 | | | | | | |
| Gasoline Range Organics | 1.6 | ND(1) | 97 | ND(1) | 158 | 435 |
| 8260 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND(6.1) | ND(5.2) | ND(21) | ND(5.2) | ND(1360) | ND(1240) |
| 1,1,1-Trichloroethane | ND(6.1) | ND(5.2) | ND(21) | ND(5.2) | ND(1360) | ND(1240) |
| 1,1,2,2-Tetrachloroethane | ND(6.1) | ND(5.2) | ND(21) | ND(5.2) | ND(1360) | ND(1240) |
| 1,1,2-Trichloroethane | ND(6.1) | ND(5.2) | ND(21) | ND(5.2) | ND(1360) | ND(1240) |
| 1,1-Dichloroethane | ND(6.1) | ND(5.2) | ND(21) | ND(5.2) | ND(1360) | ND(1240) |
| 1,1-Dichloroethene | ND(6.1) | ND(5.2) | ND(21) | ND(5.2) | ND(1360) | ND(1240) |
| 1,1-Dichloropropene | ND(6.1) | ND(5.2) | ND(21) | ND(5.2) | ND(1360) | ND(1240) |
| 1,2,3-Trichlorobenzene | ND(6.1) | ND(5.2) | ND(21) | ND(5.2) | ND(1360) | ND(1240) |
| 1,2,3-Trichloropropane | ND(6.1) | ND(5.2) | ND(21) | ND(5.2) | ND(1360) | ND(1240) |
| 1,2,4-Trichlorobenzene | ND(6.1) | ND(5.2) | ND(21) | ND(5.2) | ND(1360) | ND(1240) |
| 1,2,4-Trimethylbenzene | ND(6.1) | ND(5.2) | 28 | ND(5.2) | ND(1360) | ND(1240) |
| 1,2-Dibromo-3-chloropropane | ND(6.1) | ND(5.2) | ND(21) | ND(5.2) | ND(1360) | ND(1240) |
| 1,2-Dibromoethane | ND(6.1) | ND(5.2) | ND(21) | ND(5.2) | ND(1360) | ND(1240) |
| 1,2-Dichlorobenzene | ND(6.1) | ND(5.2) | ND(21) | ND(5.2) | ND(1360) | ND(1240) |
| 1,2-Dichloroethane | ND(6.1) | ND(5.2) | ND(21) | ND(5.2) | ND(1360) | ND(1240) |
| 1,2-Dichloropropane | ND(6.1) | ND(5.2) | ND(21) | ND(5.2) | ND(1360) | ND(1240) |
| 1,3,5-Trimethylbenzene | ND(6.1) | ND(5.2) | 434 | ND(5.2) | 27200 | 4350 |
| 1,3-Dichlorobenzene | ND(6.1) | ND(5.2) | ND(21) | ND(5.2) | ND(1360) | ND(1240) |
| 1,3-Dichloropropane | ND(6.1) | ND(5.2) | ND(21) | ND(5.2) | ND(1360) | ND(1240) |
| 1,4-Dichlorobenzene | ND(6.1) | ND(5.2) | ND(21) | ND(5.2) | ND(1360) | ND(1240) |
| 2,2-Dichloropropane | ND(6.1) | ND(5.2) | ND(21) | ND(5.2) | ND(1360) | ND(1240) |
| 2-Butanone | ND(12) | ND(26) | ND(106) | ND(26) | ND(7020) | ND(6420) |
| 2-Chlorotoluene | ND(6.1) | ND(5.2) | ND(21) | ND(5.2) | ND(1360) | ND(1240) |
| 4-Chlorotoluene | ND(6.1) | ND(5.2) | ND(21) | ND(5.2) | ND(1360) | ND(1240) |
| Acetone | 25 | ND(26) | ND(106) | ND(26) | ND(7020) | ND(6420) |
| Benzene | ND(6.1) | ND(5.2) | ND(21) | ND(5.2) | ND(1360) | ND(1240) |
| Bromobenzene | ND(6.1) | ND(5.2) | ND(21) | ND(5.2) | ND(1360) | ND(1240) |
| Bromochloromethane | ND(6.1) | ND(5.2) | ND(21) | ND(5.2) | ND(1360) | ND(1240) |
| Bromodichloromethane | ND(6.1) | ND(5.2) | ND(21) | ND(5.2) | ND(1360) | ND(1240) |
| Bromoform | ND(6.1) | ND(5.2) | ND(21) | ND(5.2) | ND(1360) | ND(1240) |
| Bromomethane | ND(6.1) | ND(5.2) | ND(21) | ND(5.2) | ND(1360) | ND(1240) |
| Carbon Tetrachloride | ND(6.1) | ND(5.2) | ND(21) | ND(5.2) | ND(1360) | ND(1240) |
| Chlorobenzene | ND(6.1) | ND(5.2) | ND(21) | ND(5.2) | ND(1360) | ND(1240) |
| Chloroethane | ND(6.1) | ND(5.2) | ND(21) | ND(5.2) | ND(1360) | ND(1240) |
| Chloroform | ND(6.1) | ND(5.2) | ND(21) | ND(5.2) | ND(1360) | ND(1240) |
| Chloromethane | ND(6.1) | ND(5.2) | ND(21) | ND(5.2) | ND(1360) | ND(1240) |
| Dibromochloromethane | ND(6.1) | ND(5.2) | ND(21) | ND(5.2) | ND(1360) | ND(1240) |
| Dibromomethane | ND(6.1) | ND(5.2) | ND(21) | ND(5.2) | ND(1360) | ND(1240) |
| Dichlorodifluoromethane | ND(6.1) | ND(5.2) | ND(21) | ND(5.2) | ND(1360) | ND(1240) |
| Ethyl benzene | ND(6.1) | ND(5.2) | ND(21) | ND(5.2) | 4530 | ND(1240) |
| Hexachlorobutadiene | ND(6.1) | ND(5.2) | ND(21) | ND(5.2) | ND(1360) | ND(1240) |
| Isopropylbenzene | ND(6.1) | ND(5.2) | ND(21) | ND(5.2) | ND(1360) | ND(1240) |
| Methylene chloride | ND(6.1) | ND(5.2) | ND(21) | ND(5.2) | ND(1360) | ND(1240) |
| Naphthalene | 17 | ND(5.2) | 138 | ND(5.2) | 14700 | 15500 |
| Styrene | ND(6.1) | ND(5.2) | ND(21) | ND(5.2) | ND(1360) | ND(1240) |
| Tetrachloroethene | ND(6.1) | ND(5.2) | ND(21) | ND(5.2) | ND(1360) | ND(1240) |
| Toluene | ND(6.1) | ND(5.2) | ND(21) | ND(5.2) | 3510 | ND(1240) |
| Trichloroethene | ND(6.1) | ND(5.2) | ND(21) | ND(5.2) | ND(1360) | ND(1240) |
| Trichlorofluoromethane | ND(6.1) | ND(5.2) | ND(21) | ND(5.2) | ND(1360) | ND(1240) |
| Vinyl chloride | ND(6.1) | ND(5.2) | ND(21) | ND(5.2) | ND(1360) | ND(1240) |
| cis-1,2-Dichloroethene | ND(6.1) | ND(5.2) | ND(21) | ND(5.2) | ND(1360) | ND(1240) |
| cis-1,3-Dichloropropene | ND(6.1) | ND(5.2) | ND(21) | ND(5.2) | ND(1360) | ND(1240) |
| m & p-Xylene | ND(6.1) | ND(5.2) | 52 | ND(5.2) | 21500 | ND(1240) |
| n-Butylbenzene | ND(6.1) | ND(5.2) | ND(21) | ND(5.2) | ND(1360) | ND(1240) |
| n-Propylbenzene | ND(6.1) | ND(5.2) | ND(21) | ND(5.2) | 2720 | ND(1240) |
| o-Xylene | ND(6.1) | ND(5.2) | 67 | ND(5.2) | 7590 | ND(1240) |
| p-Isopropyltoluene | ND(6.1) | ND(5.2) | 61 | ND(5.2) | 3280 | ND(1240) |
| sec-Butylbenzene | ND(6.1) | ND(5.2) | ND(21) | ND(5.2) | ND(1360) | ND(1240) |
| tert-Butylbenzene | ND(6.1) | ND(5.2) | ND(21) | ND(5.2) | ND(1360) | ND(1240) |
| trans-1,2-Dichloroethene | ND(6.1) | ND(5.2) | ND(21) | ND(5.2) | ND(1360) | ND(1240) |

# 1994 North Airfield Soil Results

| Sample ID | 94FWN132SL | 94FWN133SL | 94FWN134SL | 94FWN135SL | 94FWN136SL | 94FWN137SL |
|---|---|---|---|---|---|---|
| Date | 9/10/94 | 9/12/94 | 9/12/94 | 9/12/94 | 9/12/94 | 9/12/94 |
| Well / Boring ID | WN7 | BN15 | BN15 | BN15 | BN15 | BN14 |
| Depth | 20 | 0 | 5 | 10 | 15 | 0 |
| Sample Type | PR | PR | PR | PR | PR | PR |
| trans-1,3-Dichloropropene | ND(6.1) | ND(5.2) | ND(21) | ND(5.2) | ND(1360) | ND(1240) |
| EPA 7421 | | | | | | |
| Lead (GFAA) | 2.5 | 16 | 2.5 | 4.7 | 3.4 | 29 |
| Other | | | | | | |
| Ammonia, as N (350.1) | NA | NA | NA | 9.4 | NA | NA |
| Ammonia, as N (Water Soluble) (350.1) | NA | NA | NA | NA | NA | NA |
| Nitrate, as N (Water Soluble)(353.1-354.1) | NA | NA | NA | 1.5 | NA | NA |
| Total Kjeldahl Nitrogen (351.2) | NA | NA | NA | 137 | NA | NA |
| Total Organic Carbon (415.1) | NA | NA | NA | 1710 | NA | NA |
| Total Organic Carbon Quad 1 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 2 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 3 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 4 (415.1) | NA | NA | NA | NA | NA | NA |

# 1994 North Airfield Soil Results

| Sample ID | 94FWN138SL | 94FWN139SL | 94FWN140SL | 94FWN142SL | 94FWN143SL | 94FWN144SL |
|---|---|---|---|---|---|---|
| Date | 9/12/94 | 9/12/94 | 9/12/94 | 9/12/94 | 9/12/94 | 9/12/94 |
| Well / Boring ID | BN14 | BN14 | BN14 | BN14 | WN8 | WN8 |
| Depth | 5 | 10 | 15 | 15 | 0 | 5 |
| Sample Type | PR | PR | PR | QC | PR | PR |
| M8100 | | | | | | |
| Diesel Range Organics | 36 | 707 | 1610 | 1200 | 4.8 | ND(4.7) |
| M8015 | | | | | | |
| Gasoline Range Organics | 2.9 | 43 | 1880 | 2130 | ND(1) | ND(1.2) |
| 8260 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND(5.2) | ND(633) | ND(6860) | ND(6950) | ND(5.2) | ND(6) |
| 1,1,1-Trichloroethane | ND(5.2) | ND(633) | ND(6860) | ND(6950) | ND(5.2) | ND(6) |
| 1,1,2,2-Tetrachloroethane | ND(5.2) | ND(633) | ND(6860) | ND(6950) | ND(5.2) | ND(6) |
| 1,1,2-Trichloroethane | ND(5.2) | ND(633) | ND(6860) | ND(6950) | ND(5.2) | ND(6) |
| 1,1-Dichloroethane | ND(5.2) | ND(633) | ND(6860) | ND(6950) | ND(5.2) | ND(6) |
| 1,1-Dichloroethene | ND(5.2) | ND(633) | ND(6860) | ND(6950) | ND(5.2) | ND(6) |
| 1,1-Dichloropropene | ND(5.2) | ND(633) | ND(6860) | ND(6950) | ND(5.2) | ND(6) |
| 1,2,3-Trichlorobenzene | ND(5.2) | ND(633) | ND(6860) | ND(6950) | ND(5.2) | ND(6) |
| 1,2,3-Trichloropropane | ND(5.2) | ND(633) | ND(6860) | ND(6950) | ND(5.2) | ND(6) |
| 1,2,4-Trichlorobenzene | ND(5.2) | ND(633) | ND(6860) | ND(6950) | ND(5.2) | ND(6) |
| 1,2,4-Trimethylbenzene | ND(5.2) | 16300 | 254000 | 168000 | ND(5.2) | ND(6) |
| 1,2-Dibromo-3-chloropropane | ND(5.2) | ND(633) | ND(6860) | ND(6950) | ND(5.2) | ND(6) |
| 1,2-Dibromoethane | ND(5.2) | ND(633) | ND(6860) | ND(6950) | ND(5.2) | ND(6) |
| 1,2-Dichlorobenzene | ND(5.2) | ND(633) | ND(6860) | ND(6950) | ND(5.2) | ND(6) |
| 1,2-Dichloroethane | ND(5.2) | ND(633) | ND(6860) | ND(6950) | ND(5.2) | ND(6) |
| 1,2-Dichloropropane | ND(5.2) | ND(633) | ND(6860) | ND(6950) | ND(5.2) | ND(6) |
| 1,3,5-Trimethylbenzene | ND(5.2) | 11200 | 254000 | 146000 | ND(5.2) | ND(6) |
| 1,3-Dichlorobenzene | ND(5.2) | ND(633) | ND(6860) | ND(6950) | ND(5.2) | ND(6) |
| 1,3-Dichloropropane | ND(5.2) | ND(633) | ND(6860) | ND(6950) | ND(5.2) | ND(6) |
| 1,4-Dichlorobenzene | ND(5.2) | ND(633) | ND(6860) | ND(6950) | ND(5.2) | ND(6) |
| 2,2-Dichloropropane | ND(5.2) | ND(633) | ND(6860) | ND(6950) | ND(5.2) | ND(6) |
| 2-Butanone | ND(26) | ND(3170) | ND(34300) | ND(34800) | ND(26) | ND(30) |
| 2-Chlorotoluene | ND(5.2) | ND(633) | ND(6860) | ND(6950) | ND(5.2) | ND(6) |
| 4-Chlorotoluene | ND(5.2) | ND(633) | ND(6860) | ND(6950) | ND(5.2) | ND(6) |
| Acetone | ND(26) | ND(3170) | ND(34300) | ND(34800) | ND(26) | ND(30) |
| Benzene | ND(5.2) | ND(633) | ND(6860) | ND(6950) | ND(5.2) | ND(6) |
| Bromobenzene | ND(5.2) | ND(633) | ND(6860) | ND(6950) | ND(5.2) | ND(6) |
| Bromochloromethane | ND(5.2) | ND(633) | ND(6860) | ND(6950) | ND(5.2) | ND(6) |
| Bromodichloromethane | ND(5.2) | ND(633) | ND(6860) | ND(6950) | ND(5.2) | ND(6) |
| Bromoform | ND(5.2) | ND(633) | ND(6860) | ND(6950) | ND(5.2) | ND(6) |
| Bromomethane | ND(5.2) | ND(633) | ND(6860) | ND(6950) | ND(5.2) | ND(6) |
| Carbon Tetrachloride | ND(5.2) | ND(633) | ND(6860) | ND(6950) | ND(5.2) | ND(6) |
| Chlorobenzene | ND(5.2) | ND(633) | ND(6860) | ND(6950) | ND(5.2) | ND(6) |
| Chloroethane | ND(5.2) | ND(633) | ND(6860) | ND(6950) | ND(5.2) | ND(6) |
| Chloroform | ND(5.2) | ND(633) | ND(6860) | ND(6950) | ND(5.2) | ND(6) |
| Chloromethane | ND(5.2) | ND(633) | ND(6860) | ND(6950) | ND(5.2) | ND(6) |
| Dibromochloromethane | ND(5.2) | ND(633) | ND(6860) | ND(6950) | ND(5.2) | ND(6) |
| Dibromomethane | ND(5.2) | ND(633) | ND(6860) | ND(6950) | ND(5.2) | ND(6) |
| Dichlorodifluoromethane | ND(5.2) | ND(633) | ND(6860) | ND(6950) | ND(5.2) | ND(6) |
| Ethyl benzene | ND(5.2) | ND(633) | 25400 | 9640 | ND(5.2) | ND(6) |
| Hexachlorobutadiene | ND(5.2) | ND(633) | ND(6860) | ND(6950) | ND(5.2) | ND(6) |
| Isopropylbenzene | ND(5.2) | ND(633) | ND(6860) | ND(6950) | ND(5.2) | ND(6) |
| Methylene chloride | ND(5.2) | ND(633) | ND(6860) | ND(6950) | ND(5.2) | ND(6) |
| Naphthalene | ND(5.2) | 10200 | 75200 | 49300 | ND(5.2) | ND(6) |
| Styrene | ND(5.2) | ND(633) | ND(6860) | ND(6950) | ND(5.2) | ND(6) |
| Tetrachloroethene | ND(5.2) | ND(633) | ND(6860) | ND(6950) | ND(5.2) | ND(6) |
| Toluene | ND(5.2) | ND(633) | 79600 | 31400 | ND(5.2) | ND(6) |
| Trichloroethene | ND(5.2) | ND(633) | ND(6860) | ND(6950) | ND(5.2) | ND(6) |
| Trichlorofluoromethane | ND(5.2) | ND(633) | ND(6860) | ND(6950) | ND(5.2) | ND(6) |
| Vinyl chloride | ND(5.2) | ND(633) | ND(6860) | ND(6950) | ND(5.2) | ND(6) |
| cis-1,2-Dichloroethene | ND(5.2) | ND(633) | ND(6860) | ND(6950) | ND(5.2) | ND(6) |
| cis-1,3-Dichloropropene | ND(5.2) | ND(633) | ND(6860) | ND(6950) | ND(5.2) | ND(6) |
| m & p-Xylene | ND(5.2) | 6330 | 276000 | 123000 | ND(5.2) | ND(6) |
| n-Butylbenzene | ND(5.2) | ND(633) | ND(6860) | ND(6950) | ND(5.2) | ND(6) |
| n-Propylbenzene | ND(5.2) | ND(633) | 14400 | ND(6950) | ND(5.2) | ND(6) |
| o-Xylene | ND(5.2) | 2760 | 87400 | 42600 | ND(5.2) | ND(6) |
| p-Isopropyltoluene | ND(5.2) | ND(633) | 23200 | 15700 | ND(5.2) | ND(6) |
| sec-Butylbenzene | ND(5.2) | ND(633) | ND(6860) | ND(6950) | ND(5.2) | ND(6) |
| tert-Butylbenzene | ND(5.2) | ND(633) | ND(6860) | ND(6950) | ND(5.2) | ND(6) |
| trans-1,2-Dichloroethene | ND(5.2) | ND(633) | ND(6860) | ND(6950) | ND(5.2) | ND(6) |

# 1994 North Airfield Soil Results

| Sample ID | 94FWN138SL | 94FWN139SL | 94FWN140SL | 94FWN142SL | 94FWN143SL | 94FWN144SL |
|---|---|---|---|---|---|---|
| Date | 9/12/94 | 9/12/94 | 9/12/94 | 9/12/94 | 9/12/94 | 9/12/94 |
| Well / Boring ID | BN14 | BN14 | BN14 | BN14 | WN8 | WN8 |
| Depth | 5 | 10 | 15 | 15 | 0 | 5 |
| Sample Type | PR | PR | PR | QC | PR | PR |
| trans-1,3-Dichloropropene | ND(5.2) | ND(633) | ND(6860) | ND(6950) | ND(5.2) | ND(6) |
| EPA 7421 | | | | | | |
| Lead (GFAA) | 3.3 | 3.5 | 4.2 | 4.6 | 3.4 | 6.3 |
| Other | | | | | | |
| Ammonia, as N (350.1) | NA | NA | ND(5.4) | ND(5.4) | NA | NA |
| Ammonia, as N (Water Soluble) (350.1) | NA | NA | NA | NA | NA | NA |
| Nitrate, as N (Water Soluble)(353.1-354.1) | NA | NA | 0.3 | ND(0.3) | NA | NA |
| Total Kjeldahl Nitrogen (351.2) | NA | NA | 36 | 51 | NA | NA |
| Total Organic Carbon (415.1) | NA | NA | 1400 | 1630 | NA | NA |
| Total Organic Carbon Quad 1 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 2 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 3 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 4 (415.1) | NA | NA | NA | NA | NA | NA |

# 1994 North Airfield Soil Results

| Sample ID | 94FWN145SL | 94FWN146SL | 94FWN147SL | 94FWN148SL | 94FWN149SL | 94FWN150SL |
|---|---|---|---|---|---|---|
| Date | 9/12/94 | 9/12/94 | 9/12/94 | 9/13/94 | 9/13/94 | 9/13/94 |
| Well / Boring ID | WN8 | WN8 | WN8 | WN9 | WN9 | WN9 |
| Depth | 10 | 15 | 20 | 0 | 5 | 10 |
| Sample Type | PR | PR | PR | PR | PR | PR |
| M8100 | | | | | | |
| Diesel Range Organics | ND(4.1) | ND(4.1) | ND(5) | 7.3 | ND(4.2) | ND(4.1) |
| M8015 | | | | | | |
| Gasoline Range Organics | ND(1) | ND(1) | ND(1.3) | ND(1) | ND(1) | ND(1) |
| 8260 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND(5.1) | ND(5.2) | ND(6.4) | ND(5.1) | ND(5.3) | ND(5.2) |
| 1,1,1-Trichloroethane | ND(5.1) | ND(5.2) | ND(6.4) | ND(5.1) | ND(5.3) | ND(5.2) |
| 1,1,2,2-Tetrachloroethane | ND(5.1) | ND(5.2) | ND(6.4) | ND(5.1) | ND(5.3) | ND(5.2) |
| 1,1,2-Trichloroethane | ND(5.1) | ND(5.2) | ND(6.4) | ND(5.1) | ND(5.3) | ND(5.2) |
| 1,1-Dichloroethane | ND(5.1) | ND(5.2) | ND(6.4) | ND(5.1) | ND(5.3) | ND(5.2) |
| 1,1-Dichloroethene | ND(5.1) | ND(5.2) | ND(6.4) | ND(5.1) | ND(5.3) | ND(5.2) |
| 1,1-Dichloropropene | ND(5.1) | ND(5.2) | ND(6.4) | ND(5.1) | ND(5.3) | ND(5.2) |
| 1,2,3-Trichlorobenzene | ND(5.1) | ND(5.2) | ND(6.4) | ND(5.1) | ND(5.3) | ND(5.2) |
| 1,2,3-Trichloropropane | ND(5.1) | ND(5.2) | ND(6.4) | ND(5.1) | ND(5.3) | ND(5.2) |
| 1,2,4-Trichlorobenzene | ND(5.1) | ND(5.2) | ND(6.4) | ND(5.1) | ND(5.3) | ND(5.2) |
| 1,2,4-Trimethylbenzene | ND(5.1) | ND(5.2) | ND(6.4) | ND(5.1) | ND(5.3) | ND(5.2) |
| 1,2-Dibromo-3-chloropropane | ND(5.1) | ND(5.2) | ND(6.4) | ND(5.1) | ND(5.3) | ND(5.2) |
| 1,2-Dibromoethane | ND(5.1) | ND(5.2) | ND(6.4) | ND(5.1) | ND(5.3) | ND(5.2) |
| 1,2-Dichlorobenzene | ND(5.1) | ND(5.2) | ND(6.4) | ND(5.1) | ND(5.3) | ND(5.2) |
| 1,2-Dichloroethane | ND(5.1) | ND(5.2) | ND(6.4) | ND(5.1) | ND(5.3) | ND(5.2) |
| 1,2-Dichloropropane | ND(5.1) | ND(5.2) | ND(6.4) | ND(5.1) | ND(5.3) | ND(5.2) |
| 1,3,5-Trimethylbenzene | ND(5.1) | ND(5.2) | ND(6.4) | ND(5.1) | ND(5.3) | ND(5.2) |
| 1,3-Dichlorobenzene | ND(5.1) | ND(5.2) | ND(6.4) | ND(5.1) | ND(5.3) | ND(5.2) |
| 1,3-Dichloropropane | ND(5.1) | ND(5.2) | ND(6.4) | ND(5.1) | ND(5.3) | ND(5.2) |
| 1,4-Dichlorobenzene | ND(5.1) | ND(5.2) | ND(6.4) | ND(5.1) | ND(5.3) | ND(5.2) |
| 2,2-Dichloropropane | ND(5.1) | ND(5.2) | ND(6.4) | ND(5.1) | ND(5.3) | ND(5.2) |
| 2-Butanone | ND(26) | ND(26) | ND(32) | ND(26) | ND(26) | ND(26) |
| 2-Chlorotoluene | ND(5.1) | ND(5.2) | ND(6.4) | ND(5.1) | ND(5.3) | ND(5.2) |
| 4-Chlorotoluene | ND(5.1) | ND(5.2) | ND(6.4) | ND(5.1) | ND(5.3) | ND(5.2) |
| Acetone | ND(26) | ND(26) | ND(32) | ND(26) | ND(26) | ND(26) |
| Benzene | ND(5.1) | ND(5.2) | ND(6.4) | ND(5.1) | ND(5.3) | ND(5.2) |
| Bromobenzene | ND(5.1) | ND(5.2) | ND(6.4) | ND(5.1) | ND(5.3) | ND(5.2) |
| Bromochloromethane | ND(5.1) | ND(5.2) | ND(6.4) | ND(5.1) | ND(5.3) | ND(5.2) |
| Bromodichloromethane | ND(5.1) | ND(5.2) | ND(6.4) | ND(5.1) | ND(5.3) | ND(5.2) |
| Bromoform | ND(5.1) | ND(5.2) | ND(6.4) | ND(5.1) | ND(5.3) | ND(5.2) |
| Bromomethane | ND(5.1) | ND(5.2) | ND(6.4) | ND(5.1) | ND(5.3) | ND(5.2) |
| Carbon Tetrachloride | ND(5.1) | ND(5.2) | ND(6.4) | ND(5.1) | ND(5.3) | ND(5.2) |
| Chlorobenzene | ND(5.1) | ND(5.2) | ND(6.4) | ND(5.1) | ND(5.3) | ND(5.2) |
| Chloroethane | ND(5.1) | ND(5.2) | ND(6.4) | ND(5.1) | ND(5.3) | ND(5.2) |
| Chloroform | ND(5.1) | ND(5.2) | ND(6.4) | ND(5.1) | ND(5.3) | ND(5.2) |
| Chloromethane | ND(5.1) | ND(5.2) | ND(6.4) | ND(5.1) | ND(5.3) | ND(5.2) |
| Dibromochloromethane | ND(5.1) | ND(5.2) | ND(6.4) | ND(5.1) | ND(5.3) | ND(5.2) |
| Dibromomethane | ND(5.1) | ND(5.2) | ND(6.4) | ND(5.1) | ND(5.3) | ND(5.2) |
| Dichlorodifluoromethane | ND(5.1) | ND(5.2) | ND(6.4) | ND(5.1) | ND(5.3) | ND(5.2) |
| Ethyl benzene | ND(5.1) | ND(5.2) | ND(6.4) | ND(5.1) | ND(5.3) | ND(5.2) |
| Hexachlorobutadiene | ND(5.1) | ND(5.2) | ND(6.4) | ND(5.1) | ND(5.3) | ND(5.2) |
| Isopropylbenzene | ND(5.1) | ND(5.2) | ND(6.4) | ND(5.1) | ND(5.3) | ND(5.2) |
| Methylene chloride | ND(5.1) | ND(5.2) | ND(6.4) | ND(5.1) | ND(5.3) | ND(5.2) |
| Naphthalene | ND(5.1) | ND(5.2) | ND(6.4) | ND(5.1) | ND(5.3) | ND(5.2) |
| Styrene | ND(5.1) | ND(5.2) | ND(6.4) | ND(5.1) | ND(5.3) | ND(5.2) |
| Tetrachloroethene | ND(5.1) | ND(5.2) | ND(6.4) | ND(5.1) | ND(5.3) | ND(5.2) |
| Toluene | ND(5.1) | ND(5.2) | ND(6.4) | ND(5.1) | ND(5.3) | ND(5.2) |
| Trichloroethene | ND(5.1) | ND(5.2) | ND(6.4) | ND(5.1) | ND(5.3) | ND(5.2) |
| Trichlorofluoromethane | ND(5.1) | ND(5.2) | ND(6.4) | ND(5.1) | ND(5.3) | ND(5.2) |
| Vinyl chloride | ND(5.1) | ND(5.2) | ND(6.4) | ND(5.1) | ND(5.3) | ND(5.2) |
| cis-1,2-Dichloroethene | ND(5.1) | ND(5.2) | ND(6.4) | ND(5.1) | ND(5.3) | ND(5.2) |
| cis-1,3-Dichloropropene | ND(5.1) | ND(5.2) | ND(6.4) | ND(5.1) | ND(5.3) | ND(5.2) |
| m & p-Xylene | ND(5.1) | ND(5.2) | ND(6.4) | ND(5.1) | ND(5.3) | ND(5.2) |
| n-Butylbenzene | ND(5.1) | ND(5.2) | ND(6.4) | ND(5.1) | ND(5.3) | ND(5.2) |
| n-Propylbenzene | ND(5.1) | ND(5.2) | ND(6.4) | ND(5.1) | ND(5.3) | ND(5.2) |
| o-Xylene | ND(5.1) | ND(5.2) | ND(6.4) | ND(5.1) | ND(5.3) | ND(5.2) |
| p-Isopropyltoluene | ND(5.1) | ND(5.2) | ND(6.4) | ND(5.1) | ND(5.3) | ND(5.2) |
| sec-Butylbenzene | ND(5.1) | ND(5.2) | ND(6.4) | ND(5.1) | ND(5.3) | ND(5.2) |
| tert-Butylbenzene | ND(5.1) | ND(5.2) | ND(6.4) | ND(5.1) | ND(5.3) | ND(5.2) |
| trans-1,2-Dichloroethene | ND(5.1) | ND(5.2) | ND(6.4) | ND(5.1) | ND(5.3) | ND(5.2) |

# 1994 North Airfield Soil Results

| Sample ID | 94FWN145SL | 94FWN146SL | 94FWN147SL | 94FWN148SL | 94FWN149SL | 94FWN150SL |
|---|---|---|---|---|---|---|
| Date | 9/12/94 | 9/12/94 | 9/12/94 | 9/13/94 | 9/13/94 | 9/13/94 |
| Well / Boring ID | WN8 | WN8 | WN8 | WN9 | WN9 | WN9 |
| Depth | 10 | 15 | 20 | 0 | 5 | 10 |
| Sample Type | PR | PR | PR | PR | PR | PR |
| trans-1,3-Dichloropropene | ND(5.1) | ND(5.2) | ND(6.4) | ND(5.1) | ND(5.3) | ND(5.2) |
| EPA 7421 | | | | | | |
| Lead (GFAA) | 3.1 | 2.4 | 2.9 | 3.6 | 4.7 | 3.9 |
| Other | | | | | | |
| Ammonia, as N (350.1) | NA | NA | ND(6.2) | NA | NA | 5.4 |
| Ammonia, as N (Water Soluble) (350.1) | NA | NA | NA | NA | NA | NA |
| Nitrate, as N (Water Soluble)(353.1-354.1) | NA | NA | ND(0.4) | NA | NA | 1 |
| Total Kjeldahl Nitrogen (351.2) | NA | NA | 50 | NA | NA | 102 |
| Total Organic Carbon (415.1) | NA | NA | 750 | NA | NA | 970 |
| Total Organic Carbon Quad 1 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 2 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 3 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 4 (415.1) | NA | NA | NA | NA | NA | NA |

# 1994 North Airfield Soil Results

| Sample ID | 94FWN152SL | 94FWN153SL | 94FWN154SL | 94FWN155SL | 94FWN156SL | 94FWN157SL |
|---|---|---|---|---|---|---|
| Date | 9/13/94 | 9/13/94 | 9/13/94 | 9/13/94 | 9/13/94 | 9/13/94 |
| Well / Boring ID | WN9 | WN9 | WN9 | WN10 | WN10 | WN10 |
| Depth | 10 | 15 | 20 | 0 | 5 | 10 |
| Sample Type | QC | PR | PR | PR | PR | PR |
| M8100 | | | | | | |
| Diesel Range Organics | ND(4.2) | 5.9 | 7 | 20 | 6.5 | ND(4.1) |
| M8015 | | | | | | |
| Gasoline Range Organics | ND(1) | ND(1.1) | ND(1.2) | ND(1.1) | ND(1.3) | ND(1) |
| 8260 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND(5.2) | ND(5.4) | ND(6.2) | ND(5.5) | ND(6.4) | ND(5.1) |
| 1,1,1-Trichloroethane | ND(5.2) | ND(5.4) | ND(6.2) | ND(5.5) | ND(6.4) | ND(5.1) |
| 1,1,2,2-Tetrachloroethane | ND(5.2) | ND(5.4) | ND(6.2) | ND(5.5) | ND(6.4) | ND(5.1) |
| 1,1,2-Trichloroethane | ND(5.2) | ND(5.4) | ND(6.2) | ND(5.5) | ND(6.4) | ND(5.1) |
| 1,1-Dichloroethane | ND(5.2) | ND(5.4) | ND(6.2) | ND(5.5) | ND(6.4) | ND(5.1) |
| 1,1-Dichloroethene | ND(5.2) | ND(5.4) | ND(6.2) | ND(5.5) | ND(6.4) | ND(5.1) |
| 1,1-Dichloropropene | ND(5.2) | ND(5.4) | ND(6.2) | ND(5.5) | ND(6.4) | ND(5.1) |
| 1,2,3-Trichlorobenzene | ND(5.2) | ND(5.4) | ND(6.2) | ND(5.5) | ND(6.4) | ND(5.1) |
| 1,2,3-Trichloropropane | ND(5.2) | ND(5.4) | ND(6.2) | ND(5.5) | ND(6.4) | ND(5.1) |
| 1,2,4-Trichlorobenzene | ND(5.2) | ND(5.4) | ND(6.2) | ND(5.5) | ND(6.4) | ND(5.1) |
| 1,2,4-Trimethylbenzene | ND(5.2) | ND(5.4) | ND(6.2) | ND(5.5) | ND(6.4) | ND(5.1) |
| 1,2-Dibromo-3-chloropropane | ND(5.2) | ND(5.4) | ND(6.2) | ND(5.5) | ND(6.4) | ND(5.1) |
| 1,2-Dibromoethane | ND(5.2) | ND(5.4) | ND(6.2) | ND(5.5) | ND(6.4) | ND(5.1) |
| 1,2-Dichlorobenzene | ND(5.2) | ND(5.4) | ND(6.2) | ND(5.5) | ND(6.4) | ND(5.1) |
| 1,2-Dichloroethane | ND(5.2) | ND(5.4) | ND(6.2) | ND(5.5) | ND(6.4) | ND(5.1) |
| 1,2-Dichloropropane | ND(5.2) | ND(5.4) | ND(6.2) | ND(5.5) | ND(6.4) | ND(5.1) |
| 1,3,5-Trimethylbenzene | ND(5.2) | ND(5.4) | ND(6.2) | ND(5.5) | ND(6.4) | ND(5.1) |
| 1,3-Dichlorobenzene | ND(5.2) | ND(5.4) | ND(6.2) | ND(5.5) | ND(6.4) | ND(5.1) |
| 1,3-Dichloropropane | ND(5.2) | ND(5.4) | ND(6.2) | ND(5.5) | ND(6.4) | ND(5.1) |
| 1,4-Dichlorobenzene | ND(5.2) | ND(5.4) | ND(6.2) | ND(5.5) | ND(6.4) | ND(5.1) |
| 2,2-Dichloropropane | ND(5.2) | ND(5.4) | ND(6.2) | ND(5.5) | ND(6.4) | ND(5.1) |
| 2-Butanone | ND(26) | ND(27) | ND(31) | ND(27) | ND(32) | ND(26) |
| 2-Chlorotoluene | ND(5.2) | ND(5.4) | ND(6.2) | ND(5.5) | ND(6.4) | ND(5.1) |
| 4-Chlorotoluene | ND(5.2) | ND(5.4) | ND(6.2) | ND(5.5) | ND(6.4) | ND(5.1) |
| Acetone | ND(26) | ND(27) | ND(31) | ND(27) | ND(32) | ND(26) |
| Benzene | ND(5.2) | ND(5.4) | ND(6.2) | ND(5.5) | ND(6.4) | ND(5.1) |
| Bromobenzene | ND(5.2) | ND(5.4) | ND(6.2) | ND(5.5) | ND(6.4) | ND(5.1) |
| Bromochloromethane | ND(5.2) | ND(5.4) | ND(6.2) | ND(5.5) | ND(6.4) | ND(5.1) |
| Bromodichloromethane | ND(5.2) | ND(5.4) | ND(6.2) | ND(5.5) | ND(6.4) | ND(5.1) |
| Bromoform | ND(5.2) | ND(5.4) | ND(6.2) | ND(5.5) | ND(6.4) | ND(5.1) |
| Bromomethane | ND(5.2) | ND(5.4) | ND(6.2) | ND(5.5) | ND(6.4) | ND(5.1) |
| Carbon Tetrachloride | ND(5.2) | ND(5.4) | ND(6.2) | ND(5.5) | ND(6.4) | ND(5.1) |
| Chlorobenzene | ND(5.2) | ND(5.4) | ND(6.2) | ND(5.5) | ND(6.4) | ND(5.1) |
| Chloroethane | ND(5.2) | ND(5.4) | ND(6.2) | ND(5.5) | ND(6.4) | ND(5.1) |
| Chloroform | ND(5.2) | ND(5.4) | ND(6.2) | ND(5.5) | ND(6.4) | ND(5.1) |
| Chloromethane | ND(5.2) | ND(5.4) | ND(6.2) | ND(5.5) | ND(6.4) | ND(5.1) |
| Dibromochloromethane | ND(5.2) | ND(5.4) | ND(6.2) | ND(5.5) | ND(6.4) | ND(5.1) |
| Dibromomethane | ND(5.2) | ND(5.4) | ND(6.2) | ND(5.5) | ND(6.4) | ND(5.1) |
| Dichlorodifluoromethane | ND(5.2) | ND(5.4) | ND(6.2) | ND(5.5) | ND(6.4) | ND(5.1) |
| Ethyl benzene | ND(5.2) | ND(5.4) | ND(6.2) | ND(5.5) | ND(6.4) | ND(5.1) |
| Hexachlorobutadiene | ND(5.2) | ND(5.4) | ND(6.2) | ND(5.5) | ND(6.4) | ND(5.1) |
| Isopropylbenzene | ND(5.2) | ND(5.4) | ND(6.2) | ND(5.5) | ND(6.4) | ND(5.1) |
| Methylene chloride | ND(5.2) | ND(5.4) | ND(6.2) | ND(5.5) | ND(6.4) | ND(5.1) |
| Naphthalene | ND(5.2) | ND(5.4) | ND(6.2) | ND(5.5) | ND(6.4) | ND(5.1) |
| Styrene | ND(5.2) | ND(5.4) | ND(6.2) | ND(5.5) | ND(6.4) | ND(5.1) |
| Tetrachloroethene | ND(5.2) | ND(5.4) | ND(6.2) | ND(5.5) | ND(6.4) | ND(5.1) |
| Toluene | ND(5.2) | ND(5.4) | ND(6.2) | ND(5.5) | ND(6.4) | ND(5.1) |
| Trichloroethene | ND(5.2) | ND(5.4) | ND(6.2) | ND(5.5) | ND(6.4) | ND(5.1) |
| Trichlorofluoromethane | ND(5.2) | ND(5.4) | ND(6.2) | ND(5.5) | ND(6.4) | ND(5.1) |
| Vinyl chloride | ND(5.2) | ND(5.4) | ND(6.2) | ND(5.5) | ND(6.4) | ND(5.1) |
| cis-1,2-Dichloroethene | ND(5.2) | ND(5.4) | ND(6.2) | ND(5.5) | ND(6.4) | ND(5.1) |
| cis-1,3-Dichloropropene | ND(5.2) | ND(5.4) | ND(6.2) | ND(5.5) | ND(6.4) | ND(5.1) |
| m & p-Xylene | ND(5.2) | ND(5.4) | ND(6.2) | ND(5.5) | ND(6.4) | ND(5.1) |
| n-Butylbenzene | ND(5.2) | ND(5.4) | ND(6.2) | ND(5.5) | ND(6.4) | ND(5.1) |
| n-Propylbenzene | ND(5.2) | ND(5.4) | ND(6.2) | ND(5.5) | ND(6.4) | ND(5.1) |
| o-Xylene | ND(5.2) | ND(5.4) | ND(6.2) | ND(5.5) | ND(6.4) | ND(5.1) |
| p-Isopropyltoluene | ND(5.2) | ND(5.4) | ND(6.2) | ND(5.5) | ND(6.4) | ND(5.1) |
| sec-Butylbenzene | ND(5.2) | ND(5.4) | ND(6.2) | ND(5.5) | ND(6.4) | ND(5.1) |
| tert-Butylbenzene | ND(5.2) | ND(5.4) | ND(6.2) | ND(5.5) | ND(6.4) | ND(5.1) |
| trans-1,2-Dichloroethene | ND(5.2) | ND(5.4) | ND(6.2) | ND(5.5) | ND(6.4) | ND(5.1) |

# 1994 North Airfield Soil Results

| Sample ID | 94FWN152SL | 94FWN153SL | 94FWN154SL | 94FWN155SL | 94FWN156SL | 94FWN157SL |
|---|---|---|---|---|---|---|
| Date | 9/13/94 | 9/13/94 | 9/13/94 | 9/13/94 | 9/13/94 | 9/13/94 |
| Well / Boring ID | WN9 | WN9 | WN9 | WN10 | WN10 | WN10 |
| Depth | 10 | 15 | 20 | 0 | 5 | 10 |
| Sample Type | QC | PR | PR | PR | PR | PR |
| trans-1,3-Dichloropropene | ND(5.2) | ND(5.4) | ND(6.2) | ND(5.5) | ND(6.4) | ND(5.1) |
| EPA 7421 | | | | | | |
| Lead (GFAA) | 3.6 | 2.9 | 3.8 | 12 | 4.9 | 2.9 |
| Other | | | | | | |
| Ammonia, as N (350.1) | 12 | NA | NA | 26 | NA | NA |
| Ammonia, as N (Water Soluble) (350.1) | NA | NA | NA | NA | NA | NA |
| Nitrate, as N (Water Soluble)(353.1-354.1) | 1.4 | NA | NA | ND(0.3) | NA | NA |
| Total Kjeldahl Nitrogen (351.2) | 115 | NA | NA | 713 | NA | NA |
| Total Organic Carbon (415.1) | 1150 | NA | NA | 9540 | NA | NA |
| Total Organic Carbon Quad 1 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 2 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 3 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 4 (415.1) | NA | NA | NA | NA | NA | NA |

# 1994 North Airfield Soil Results

| Sample ID | 94FWN158SL | 94FWN159SL | 94FWN160SL | 94FWN161SL | 94FWN162SL | 94FWN163SL |
|---|---|---|---|---|---|---|
| Date | 9/13/94 | 9/13/94 | 9/14/94 | 9/14/94 | 9/14/94 | 9/14/94 |
| Well / Boring ID | WN10 | WN10 | WN11 | WN11 | WN11 | WN11 |
| Depth | 15 | 20 | 0 | 5 | 10 | 15 |
| Sample Type | PR | PR | PR | PR | PR | PR |
| M8100 | | | | | | |
| Diesel Range Organics | 178 | ND(4.9) | 6.6 | ND(4.1) | ND(4.1) | ND(4.5) |
| M8015 | | | | | | |
| Gasoline Range Organics | 77 | 31 | ND(1.1) | ND(1) | ND(1) | ND(1.1) |
| 8260 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND(30) | ND(6.2) | ND(5.4) | ND(5.1) | ND(5.1) | ND(5.4) |
| 1,1,1-Trichloroethane | ND(30) | ND(6.2) | ND(5.4) | ND(5.1) | ND(5.1) | ND(5.4) |
| 1,1,2,2-Tetrachloroethane | ND(30) | ND(6.2) | ND(5.4) | ND(5.1) | ND(5.1) | ND(5.4) |
| 1,1,2-Trichloroethane | ND(30) | ND(6.2) | ND(5.4) | ND(5.1) | ND(5.1) | ND(5.4) |
| 1,1-Dichloroethane | ND(30) | ND(6.2) | ND(5.4) | ND(5.1) | ND(5.1) | ND(5.4) |
| 1,1-Dichloroethene | ND(30) | ND(6.2) | ND(5.4) | ND(5.1) | ND(5.1) | ND(5.4) |
| 1,1-Dichloropropene | ND(30) | ND(6.2) | ND(5.4) | ND(5.1) | ND(5.1) | ND(5.4) |
| 1,2,3-Trichlorobenzene | ND(30) | ND(6.2) | ND(5.4) | ND(5.1) | ND(5.1) | ND(5.4) |
| 1,2,3-Trichloropropane | ND(30) | ND(6.2) | ND(5.4) | ND(5.1) | ND(5.1) | ND(5.4) |
| 1,2,4-Trichlorobenzene | ND(30) | ND(6.2) | ND(5.4) | ND(5.1) | ND(5.1) | ND(5.4) |
| 1,2,4-Trimethylbenzene | 43 | ND(6.2) | ND(5.4) | ND(5.1) | ND(5.1) | ND(5.4) |
| 1,2-Dibromo-3-chloropropane | ND(30) | ND(6.2) | ND(5.4) | ND(5.1) | ND(5.1) | ND(5.4) |
| 1,2-Dibromoethane | ND(30) | ND(6.2) | ND(5.4) | ND(5.1) | ND(5.1) | ND(5.4) |
| 1,2-Dichlorobenzene | ND(30) | ND(6.2) | ND(5.4) | ND(5.1) | ND(5.1) | ND(5.4) |
| 1,2-Dichloroethane | ND(30) | ND(6.2) | ND(5.4) | ND(5.1) | ND(5.1) | ND(5.4) |
| 1,2-Dichloropropane | ND(30) | ND(6.2) | ND(5.4) | ND(5.1) | ND(5.1) | ND(5.4) |
| 1,3,5-Trimethylbenzene | 470 | ND(6.2) | ND(5.4) | ND(5.1) | ND(5.1) | ND(5.4) |
| 1,3-Dichlorobenzene | ND(30) | ND(6.2) | ND(5.4) | ND(5.1) | ND(5.1) | ND(5.4) |
| 1,3-Dichloropropane | ND(30) | ND(6.2) | ND(5.4) | ND(5.1) | ND(5.1) | ND(5.4) |
| 1,4-Dichlorobenzene | ND(30) | ND(6.2) | ND(5.4) | ND(5.1) | ND(5.1) | ND(5.4) |
| 2,2-Dichloropropane | ND(30) | ND(6.2) | ND(5.4) | ND(5.1) | ND(5.1) | ND(5.4) |
| 2-Butanone | ND(100) | ND(31) | ND(27) | ND(26) | ND(26) | ND(27) |
| 2-Chlorotoluene | ND(30) | ND(6.2) | ND(5.4) | ND(5.1) | ND(5.1) | ND(5.4) |
| 4-Chlorotoluene | ND(30) | ND(6.2) | ND(5.4) | ND(5.1) | ND(5.1) | ND(5.4) |
| Acetone | ND(100) | ND(31) | ND(27) | ND(26) | ND(26) | ND(27) |
| Benzene | ND(30) | ND(6.2) | ND(5.4) | ND(5.1) | ND(5.1) | ND(5.4) |
| Bromobenzene | ND(30) | ND(6.2) | ND(5.4) | ND(5.1) | ND(5.1) | ND(5.4) |
| Bromochloromethane | ND(30) | ND(6.2) | ND(5.4) | ND(5.1) | ND(5.1) | ND(5.4) |
| Bromodichloromethane | ND(30) | ND(6.2) | ND(5.4) | ND(5.1) | ND(5.1) | ND(5.4) |
| Bromoform | ND(30) | ND(6.2) | ND(5.4) | ND(5.1) | ND(5.1) | ND(5.4) |
| Bromomethane | ND(30) | ND(6.2) | ND(5.4) | ND(5.1) | ND(5.1) | ND(5.4) |
| Carbon Tetrachloride | ND(30) | ND(6.2) | ND(5.4) | ND(5.1) | ND(5.1) | ND(5.4) |
| Chlorobenzene | ND(30) | ND(6.2) | ND(5.4) | ND(5.1) | ND(5.1) | ND(5.4) |
| Chloroethane | ND(30) | ND(6.2) | ND(5.4) | ND(5.1) | ND(5.1) | ND(5.4) |
| Chloroform | ND(30) | ND(6.2) | ND(5.4) | ND(5.1) | ND(5.1) | ND(5.4) |
| Chloromethane | ND(30) | ND(6.2) | ND(5.4) | ND(5.1) | ND(5.1) | ND(5.4) |
| Dibromochloromethane | ND(30) | ND(6.2) | ND(5.4) | ND(5.1) | ND(5.1) | ND(5.4) |
| Dibromomethane | ND(30) | ND(6.2) | ND(5.4) | ND(5.1) | ND(5.1) | ND(5.4) |
| Dichlorodifluoromethane | ND(30) | ND(6.2) | ND(5.4) | ND(5.1) | ND(5.1) | ND(5.4) |
| Ethyl benzene | ND(30) | ND(6.2) | ND(5.4) | ND(5.1) | ND(5.1) | ND(5.4) |
| Hexachlorobutadiene | ND(30) | ND(6.2) | ND(5.4) | ND(5.1) | ND(5.1) | ND(5.4) |
| Isopropylbenzene | 160 | ND(6.2) | ND(5.4) | ND(5.1) | ND(5.1) | ND(5.4) |
| Methylene chloride | ND(30) | ND(6.2) | ND(5.4) | ND(5.1) | ND(5.1) | ND(5.4) |
| Naphthalene | 866 | ND(6.2) | ND(5.4) | ND(5.1) | ND(5.1) | ND(5.4) |
| Styrene | ND(30) | ND(6.2) | ND(5.4) | ND(5.1) | ND(5.1) | ND(5.4) |
| Tetrachloroethene | ND(30) | ND(6.2) | ND(5.4) | ND(5.1) | ND(5.1) | ND(5.4) |
| Toluene | ND(30) | ND(6.2) | ND(5.4) | ND(5.1) | ND(5.1) | ND(5.4) |
| Trichloroethene | ND(30) | ND(6.2) | ND(5.4) | ND(5.1) | ND(5.1) | ND(5.4) |
| Trichlorofluoromethane | ND(30) | ND(6.2) | ND(5.4) | ND(5.1) | ND(5.1) | ND(5.4) |
| Vinyl chloride | ND(30) | ND(6.2) | ND(5.4) | ND(5.1) | ND(5.1) | ND(5.4) |
| cis-1,2-Dichloroethene | ND(30) | ND(6.2) | ND(5.4) | ND(5.1) | ND(5.1) | ND(5.4) |
| cis-1,3-Dichloropropene | ND(30) | ND(6.2) | ND(5.4) | ND(5.1) | ND(5.1) | ND(5.4) |
| m & p-Xylene | ND(30) | ND(6.2) | ND(5.4) | ND(5.1) | ND(5.1) | ND(5.4) |
| n-Butylbenzene | ND(30) | ND(6.2) | ND(5.4) | ND(5.1) | ND(5.1) | ND(5.4) |
| n-Propylbenzene | ND(30) | ND(6.2) | ND(5.4) | ND(5.1) | ND(5.1) | ND(5.4) |
| o-Xylene | ND(30) | ND(6.2) | ND(5.4) | ND(5.1) | ND(5.1) | ND(5.4) |
| p-Isopropyltoluene | ND(30) | ND(6.2) | ND(5.4) | ND(5.1) | ND(5.1) | ND(5.4) |
| sec-Butylbenzene | ND(30) | ND(6.2) | ND(5.4) | ND(5.1) | ND(5.1) | ND(5.4) |
| tert-Butylbenzene | 182 | ND(6.2) | ND(5.4) | ND(5.1) | ND(5.1) | ND(5.4) |
| trans-1,2-Dichloroethene | ND(30) | ND(6.2) | ND(5.4) | ND(5.1) | ND(5.1) | ND(5.4) |

# 1994 North Airfield Soil Results

| Sample ID | 94FWN158SL | 94FWN159SL | 94FWN160SL | 94FWN161SL | 94FWN162SL | 94FWN163SL |
|---|---|---|---|---|---|---|
| Date | 9/13/94 | 9/13/94 | 9/14/94 | 9/14/94 | 9/14/94 | 9/14/94 |
| Well / Boring ID | WN10 | WN10 | WN11 | WN11 | WN11 | WN11 |
| Depth | 15 | 20 | 0 | 5 | 10 | 15 |
| Sample Type | PR | PR | PR | PR | PR | PR |
| trans-1,3-Dichloropropene | ND(30) | ND(6.2) | ND(5.4) | ND(5.1) | ND(5.1) | ND(5.4) |
| EPA 7421 | | | | | | |
| Lead (GFAA) | 3.7 | 3.4 | 4.4 | 3.4 | 2.6 | 3.6 |
| Other | | | | | | |
| Ammonia, as N (350.1) | NA | NA | NA | NA | NA | 2.7 |
| Ammonia, as N (Water Soluble) (350.1) | NA | NA | NA | NA | NA | NA |
| Nitrate, as N (Water Soluble)(353.1-354.1) | NA | NA | NA | NA | NA | ND(0.3) |
| Total Kjeldahl Nitrogen (351.2) | NA | NA | NA | NA | NA | 57 |
| Total Organic Carbon (415.1) | NA | NA | NA | NA | NA | 1570 |
| Total Organic Carbon Quad 1 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 2 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 3 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 4 (415.1) | NA | NA | NA | NA | NA | NA |

# 1994 North Airfield Soil Results

| Sample ID | 94FWN165SL | 94FWN166SL | 94FWN167SL | 94FWN168SL | 94FWN169SL | 94FWN170SL |
|---|---|---|---|---|---|---|
| Date | 9/14/94 | 9/14/94 | 9/15/94 | 9/15/94 | 9/15/94 | 9/15/94 |
| Well / Boring ID | WN11 | WN11 | BN17 | BN17 | BN17 | BN17 |
| Depth | 15 | 20 | 0 | 5 | 10 | 15 |
| Sample Type | QC | PR | PR | PR | PR | PR |
| M8100 | | | | | | |
| Diesel Range Organics | ND(4.6) | ND(4.3) | ND(4.1) | 778 | 123 | 1140 |
| M8015 | | | | | | |
| Gasoline Range Organics | ND(1.2) | ND(1.2) | ND(1) | 353 | 184 | 3380 |
| 8260 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND(5.8) | ND(5.8) | ND(5.2) | ND(57) | ND(51) | ND(530) |
| 1,1,1-Trichloroethane | ND(5.8) | ND(5.8) | ND(5.2) | ND(57) | ND(51) | ND(530) |
| 1,1,2,2-Tetrachloroethane | ND(5.8) | ND(5.8) | ND(5.2) | ND(57) | ND(51) | ND(530) |
| 1,1,2-Trichloroethane | ND(5.8) | ND(5.8) | ND(5.2) | ND(57) | ND(51) | ND(530) |
| 1,1-Dichloroethane | ND(5.8) | ND(5.8) | ND(5.2) | ND(57) | ND(51) | ND(530) |
| 1,1-Dichloroethene | ND(5.8) | ND(5.8) | ND(5.2) | ND(57) | ND(51) | ND(530) |
| 1,1-Dichloropropene | ND(5.8) | ND(5.8) | ND(5.2) | ND(57) | ND(51) | ND(530) |
| 1,2,3-Trichlorobenzene | ND(5.8) | ND(5.8) | ND(5.2) | ND(57) | ND(51) | ND(530) |
| 1,2,3-Trichloropropane | ND(5.8) | ND(5.8) | ND(5.2) | ND(57) | ND(51) | ND(530) |
| 1,2,4-Trichlorobenzene | ND(5.8) | ND(5.8) | ND(5.2) | ND(57) | ND(51) | ND(530) |
| 1,2,4-Trimethylbenzene | ND(5.8) | ND(5.8) | ND(5.2) | 96700 | 3990 | 158000 |
| 1,2-Dibromo-3-chloropropane | ND(5.8) | ND(5.8) | ND(5.2) | ND(57) | ND(51) | ND(530) |
| 1,2-Dibromoethane | ND(5.8) | ND(5.8) | ND(5.2) | ND(57) | ND(51) | ND(530) |
| 1,2-Dichlorobenzene | ND(5.8) | ND(5.8) | ND(5.2) | ND(57) | ND(51) | ND(530) |
| 1,2-Dichloroethane | ND(5.8) | ND(5.8) | ND(5.2) | ND(57) | ND(51) | ND(530) |
| 1,2-Dichloropropane | ND(5.8) | ND(5.8) | ND(5.2) | ND(57) | ND(51) | ND(530) |
| 1,3,5-Trimethylbenzene | ND(5.8) | ND(5.8) | ND(5.2) | 38700 | 1640 | 57100 |
| 1,3-Dichlorobenzene | ND(5.8) | ND(5.8) | ND(5.2) | ND(57) | ND(51) | ND(530) |
| 1,3-Dichloropropane | ND(5.8) | ND(5.8) | ND(5.2) | ND(57) | ND(51) | ND(530) |
| 1,4-Dichlorobenzene | ND(5.8) | ND(5.8) | ND(5.2) | ND(57) | ND(51) | ND(530) |
| 2,2-Dichloropropane | ND(5.8) | ND(5.8) | ND(5.2) | ND(57) | ND(51) | ND(530) |
| 2-Butanone | ND(29) | ND(29) | ND(10) | ND(110) | ND(100) | ND(1000) |
| 2-Chlorotoluene | ND(5.8) | ND(5.8) | ND(5.2) | ND(57) | ND(51) | ND(530) |
| 4-Chlorotoluene | ND(5.8) | ND(5.8) | ND(5.2) | ND(57) | ND(51) | ND(530) |
| Acetone | ND(29) | ND(29) | ND(10) | ND(110) | ND(100) | ND(1000) |
| Benzene | ND(5.8) | ND(5.8) | ND(5.2) | ND(57) | ND(51) | ND(530) |
| Bromobenzene | ND(5.8) | ND(5.8) | ND(5.2) | ND(57) | ND(51) | ND(530) |
| Bromochloromethane | ND(5.8) | ND(5.8) | ND(5.2) | ND(57) | ND(51) | ND(530) |
| Bromodichloromethane | ND(5.8) | ND(5.8) | ND(5.2) | ND(57) | ND(51) | ND(530) |
| Bromoform | ND(5.8) | ND(5.8) | ND(5.2) | ND(57) | ND(51) | ND(530) |
| Bromomethane | ND(5.8) | ND(5.8) | ND(5.2) | ND(57) | ND(51) | ND(530) |
| Carbon Tetrachloride | ND(5.8) | ND(5.8) | ND(5.2) | ND(57) | ND(51) | ND(530) |
| Chlorobenzene | ND(5.8) | ND(5.8) | ND(5.2) | ND(57) | ND(51) | ND(530) |
| Chloroethane | ND(5.8) | ND(5.8) | ND(5.2) | ND(57) | ND(51) | ND(530) |
| Chloroform | ND(5.8) | ND(5.8) | ND(5.2) | ND(57) | ND(51) | ND(530) |
| Chloromethane | ND(5.8) | ND(5.8) | ND(5.2) | ND(57) | ND(51) | ND(530) |
| Dibromochloromethane | ND(5.8) | ND(5.8) | ND(5.2) | ND(57) | ND(51) | ND(530) |
| Dibromomethane | ND(5.8) | ND(5.8) | ND(5.2) | ND(57) | ND(51) | ND(530) |
| Dichlorodifluoromethane | ND(5.8) | ND(5.8) | ND(5.2) | ND(57) | ND(51) | ND(530) |
| Ethyl benzene | ND(5.8) | ND(5.8) | ND(5.2) | 842 | ND(51) | 10600 |
| Hexachlorobutadiene | ND(5.8) | ND(5.8) | ND(5.2) | ND(57) | ND(51) | ND(530) |
| Isopropylbenzene | ND(5.8) | ND(5.8) | ND(5.2) | 500 | ND(51) | 4230 |
| Methylene chloride | ND(5.8) | ND(5.8) | ND(5.2) | ND(57) | ND(51) | ND(530) |
| Naphthalene | ND(5.8) | ND(5.8) | ND(5.2) | 20500 | 1430 | 45400 |
| Styrene | ND(5.8) | ND(5.8) | ND(5.2) | ND(57) | ND(51) | ND(530) |
| Tetrachloroethene | ND(5.8) | ND(5.8) | ND(5.2) | ND(57) | ND(51) | ND(530) |
| Toluene | ND(5.8) | ND(5.8) | ND(5.2) | 1080 | 67 | 9830 |
| Trichloroethene | ND(5.8) | ND(5.8) | ND(5.2) | ND(57) | ND(51) | ND(530) |
| Trichlorofluoromethane | ND(5.8) | ND(5.8) | ND(5.2) | ND(57) | ND(51) | ND(530) |
| Vinyl chloride | ND(5.8) | ND(5.8) | ND(5.2) | ND(57) | ND(51) | ND(530) |
| cis-1,2-Dichloroethene | ND(5.8) | ND(5.8) | ND(5.2) | ND(57) | ND(51) | ND(530) |
| cis-1,3-Dichloropropene | ND(5.8) | ND(5.8) | ND(5.2) | ND(57) | ND(51) | ND(530) |
| m & p-Xylene | ND(5.8) | ND(5.8) | ND(5.2) | 36400 | 1230 | 106000 |
| n-Butylbenzene | ND(5.8) | ND(5.8) | ND(5.2) | ND(57) | ND(51) | ND(530) |
| n-Propylbenzene | ND(5.8) | ND(5.8) | ND(5.2) | 1110 | 52 | 10500 |
| o-Xylene | ND(5.8) | ND(5.8) | ND(5.2) | 22800 | 838 | 47600 |
| p-Isopropyltoluene | ND(5.8) | ND(5.8) | ND(5.2) | 1930 | 245 | 6760 |
| sec-Butylbenzene | ND(5.8) | ND(5.8) | ND(5.2) | 580 | ND(51) | 3490 |
| tert-Butylbenzene | ND(5.8) | ND(5.8) | ND(5.2) | ND(57) | ND(51) | ND(530) |
| trans-1,2-Dichloroethene | ND(5.8) | ND(5.8) | ND(5.2) | ND(57) | ND(51) | ND(530) |

# 1994 North Airfield Soil Results

| Sample ID | 94FWN165SL | 94FWN166SL | 94FWN167SL | 94FWN168SL | 94FWN169SL | 94FWN170SL |
|---|---|---|---|---|---|---|
| Date | 9/14/94 | 9/14/94 | 9/15/94 | 9/15/94 | 9/15/94 | 9/15/94 |
| Well / Boring ID | WN11 | WN11 | BN17 | BN17 | BN17 | BN17 |
| Depth | 15 | 20 | 0 | 5 | 10 | 15 |
| Sample Type | QC | PR | PR | PR | PR | PR |
| trans-1,3-Dichloropropene | ND(5.8) | ND(5.8) | ND(5.2) | ND(57) | ND(51) | ND(530) |
| EPA 7421 | | | | | | |
| Lead (GFAA) | 3.6 | 2.6 | 2.2 | 5.8 | 3.3 | 8.2 |
| Other | | | | | | |
| Ammonia, as N (350.1) | ND(5.7) | NA | NA | NA | NA | 2.4 |
| Ammonia, as N (Water Soluble) (350.1) | NA | NA | NA | NA | NA | NA |
| Nitrate, as N (Water Soluble)(353.1-354.1) | 0.4 | NA | NA | NA | NA | ND(0.3) |
| Total Kjeldahl Nitrogen (351.2) | 61 | NA | NA | NA | NA | 32 |
| Total Organic Carbon (415.1) | 1600 | NA | NA | NA | NA | 779 |
| Total Organic Carbon Quad 1 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 2 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 3 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 4 (415.1) | NA | NA | NA | NA | NA | NA |

# 1994 North Airfield Soil Results

| Sample ID | 94FWN171SL | 94FWN172SL | 94FWN173SL | 94FWN174SL | 94FWN175SL | 94FWN176SL |
|---|---|---|---|---|---|---|
| Date | 9/15/94 | 9/15/94 | 9/15/94 | 9/15/94 | 9/15/94 | 9/15/94 |
| Well / Boring ID | WN13 | WN13 | WN13 | WN13 | WN13 | WN14 |
| Depth | 0 | 5 | 10 | 15 | 20 | 0 |
| Sample Type | PR | PR | PR | PR | PR | PR |
| M8100 | | | | | | |
| Diesel Range Organics | 27 | ND(4.2) | ND(4.1) | ND(4.3) | ND(4.6) | 4.6 |
| M8015 | | | | | | |
| Gasoline Range Organics | ND(1.2) | ND(1) | ND(1) | ND(1.1) | ND(1) | ND(1) |
| 8260 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND(5.8) | ND(5.2) | ND(5.1) | ND(5.4) | ND(5.2) | ND(5.2) |
| 1,1,1-Trichloroethane | ND(5.8) | ND(5.2) | ND(5.1) | ND(5.4) | ND(5.2) | ND(5.2) |
| 1,1,2,2-Tetrachloroethane | ND(5.8) | ND(5.2) | ND(5.1) | ND(5.4) | ND(5.2) | ND(5.2) |
| 1,1,2-Trichloroethane | ND(5.8) | ND(5.2) | ND(5.1) | ND(5.4) | ND(5.2) | ND(5.2) |
| 1,1-Dichloroethane | ND(5.8) | ND(5.2) | ND(5.1) | ND(5.4) | ND(5.2) | ND(5.2) |
| 1,1-Dichloroethene | ND(5.8) | ND(5.2) | ND(5.1) | ND(5.4) | ND(5.2) | ND(5.2) |
| 1,1-Dichloropropene | ND(5.8) | ND(5.2) | ND(5.1) | ND(5.4) | ND(5.2) | ND(5.2) |
| 1,2,3-Trichlorobenzene | ND(5.8) | ND(5.2) | ND(5.1) | ND(5.4) | ND(5.2) | ND(5.2) |
| 1,2,3-Trichloropropane | ND(5.8) | ND(5.2) | ND(5.1) | ND(5.4) | ND(5.2) | ND(5.2) |
| 1,2,4-Trichlorobenzene | ND(5.8) | ND(5.2) | ND(5.1) | ND(5.4) | ND(5.2) | ND(5.2) |
| 1,2,4-Trimethylbenzene | ND(5.8) | ND(5.2) | ND(5.1) | ND(5.4) | ND(5.2) | ND(5.2) |
| 1,2-Dibromo-3-chloropropane | ND(5.8) | ND(5.2) | ND(5.1) | ND(5.4) | ND(5.2) | ND(5.2) |
| 1,2-Dibromoethane | ND(5.8) | ND(5.2) | ND(5.1) | ND(5.4) | ND(5.2) | ND(5.2) |
| 1,2-Dichlorobenzene | ND(5.8) | ND(5.2) | ND(5.1) | ND(5.4) | ND(5.2) | ND(5.2) |
| 1,2-Dichloroethane | ND(5.8) | ND(5.2) | ND(5.1) | ND(5.4) | ND(5.2) | ND(5.2) |
| 1,2-Dichloropropane | ND(5.8) | ND(5.2) | ND(5.1) | ND(5.4) | ND(5.2) | ND(5.2) |
| 1,3,5-Trimethylbenzene | ND(5.8) | ND(5.2) | ND(5.1) | ND(5.4) | ND(5.2) | ND(5.2) |
| 1,3-Dichlorobenzene | ND(5.8) | ND(5.2) | ND(5.1) | ND(5.4) | ND(5.2) | ND(5.2) |
| 1,3-Dichloropropane | ND(5.8) | ND(5.2) | ND(5.1) | ND(5.4) | ND(5.2) | ND(5.2) |
| 1,4-Dichlorobenzene | ND(5.8) | ND(5.2) | ND(5.1) | ND(5.4) | ND(5.2) | ND(5.2) |
| 2,2-Dichloropropane | ND(5.8) | ND(5.2) | ND(5.1) | ND(5.4) | ND(5.2) | ND(5.2) |
| 2-Butanone | ND(12) | ND(10) | ND(10) | ND(11) | ND(10) | ND(10) |
| 2-Chlorotoluene | ND(5.8) | ND(5.2) | ND(5.1) | ND(5.4) | ND(5.2) | ND(5.2) |
| 4-Chlorotoluene | ND(5.8) | ND(5.2) | ND(5.1) | ND(5.4) | ND(5.2) | ND(5.2) |
| Acetone | ND(12) | ND(10) | ND(10) | ND(11) | ND(10) | ND(10) |
| Benzene | ND(5.8) | ND(5.2) | ND(5.1) | ND(5.4) | ND(5.2) | ND(5.2) |
| Bromobenzene | ND(5.8) | ND(5.2) | ND(5.1) | ND(5.4) | ND(5.2) | ND(5.2) |
| Bromochloromethane | ND(5.8) | ND(5.2) | ND(5.1) | ND(5.4) | ND(5.2) | ND(5.2) |
| Bromodichloromethane | ND(5.8) | ND(5.2) | ND(5.1) | ND(5.4) | ND(5.2) | ND(5.2) |
| Bromoform | ND(5.8) | ND(5.2) | ND(5.1) | ND(5.4) | ND(5.2) | ND(5.2) |
| Bromomethane | ND(5.8) | ND(5.2) | ND(5.1) | ND(5.4) | ND(5.2) | ND(5.2) |
| Carbon Tetrachloride | ND(5.8) | ND(5.2) | ND(5.1) | ND(5.4) | ND(5.2) | ND(5.2) |
| Chlorobenzene | ND(5.8) | ND(5.2) | ND(5.1) | ND(5.4) | ND(5.2) | ND(5.2) |
| Chloroethane | ND(5.8) | ND(5.2) | ND(5.1) | ND(5.4) | ND(5.2) | ND(5.2) |
| Chloroform | ND(5.8) | ND(5.2) | ND(5.1) | ND(5.4) | ND(5.2) | ND(5.2) |
| Chloromethane | ND(5.8) | ND(5.2) | ND(5.1) | ND(5.4) | ND(5.2) | ND(5.2) |
| Dibromochloromethane | ND(5.8) | ND(5.2) | ND(5.1) | ND(5.4) | ND(5.2) | ND(5.2) |
| Dibromomethane | ND(5.8) | ND(5.2) | ND(5.1) | ND(5.4) | ND(5.2) | ND(5.2) |
| Dichlorodifluoromethane | ND(5.8) | ND(5.2) | ND(5.1) | ND(5.4) | ND(5.2) | ND(5.2) |
| Ethyl benzene | ND(5.8) | ND(5.2) | ND(5.1) | ND(5.4) | ND(5.2) | ND(5.2) |
| Hexachlorobutadiene | ND(5.8) | ND(5.2) | ND(5.1) | ND(5.4) | ND(5.2) | ND(5.2) |
| Isopropylbenzene | ND(5.8) | ND(5.2) | ND(5.1) | ND(5.4) | ND(5.2) | ND(5.2) |
| Methylene chloride | 10 | 7.5 | 9.2 | 7.5 | 6.5 | ND(5.2) |
| Naphthalene | ND(5.8) | ND(5.2) | ND(5.1) | ND(5.4) | ND(5.2) | ND(5.2) |
| Styrene | ND(5.8) | ND(5.2) | ND(5.1) | ND(5.4) | ND(5.2) | ND(5.2) |
| Tetrachloroethene | ND(5.8) | ND(5.2) | ND(5.1) | ND(5.4) | ND(5.2) | ND(5.2) |
| Toluene | ND(5.8) | ND(5.2) | ND(5.1) | ND(5.4) | ND(5.2) | ND(5.2) |
| Trichloroethene | ND(5.8) | ND(5.2) | ND(5.1) | ND(5.4) | ND(5.2) | ND(5.2) |
| Trichlorofluoromethane | ND(5.8) | ND(5.2) | ND(5.1) | ND(5.4) | ND(5.2) | ND(5.2) |
| Vinyl chloride | ND(5.8) | ND(5.2) | ND(5.1) | ND(5.4) | ND(5.2) | ND(5.2) |
| cis-1,2-Dichloroethene | ND(5.8) | ND(5.2) | ND(5.1) | ND(5.4) | ND(5.2) | ND(5.2) |
| cis-1,3-Dichloropropene | ND(5.8) | ND(5.2) | ND(5.1) | ND(5.4) | ND(5.2) | ND(5.2) |
| m & p-Xylene | ND(5.8) | ND(5.2) | ND(5.1) | ND(5.4) | ND(5.2) | ND(5.2) |
| n-Butylbenzene | ND(5.8) | ND(5.2) | ND(5.1) | ND(5.4) | ND(5.2) | ND(5.2) |
| n-Propylbenzene | ND(5.8) | ND(5.2) | ND(5.1) | ND(5.4) | ND(5.2) | ND(5.2) |
| o-Xylene | ND(5.8) | ND(5.2) | ND(5.1) | ND(5.4) | ND(5.2) | ND(5.2) |
| p-Isopropyltoluene | ND(5.8) | ND(5.2) | ND(5.1) | ND(5.4) | ND(5.2) | ND(5.2) |
| sec-Butylbenzene | ND(5.8) | ND(5.2) | ND(5.1) | ND(5.4) | ND(5.2) | ND(5.2) |
| tert-Butylbenzene | ND(5.8) | ND(5.2) | ND(5.1) | ND(5.4) | ND(5.2) | ND(5.2) |
| trans-1,2-Dichloroethene | ND(5.8) | ND(5.2) | ND(5.1) | ND(5.4) | ND(5.2) | ND(5.2) |

# 1994 North Airfield Soil Results

| Sample ID | 94FWN171SL | 94FWN172SL | 94FWN173SL | 94FWN174SL | 94FWN175SL | 94FWN176SL |
|---|---|---|---|---|---|---|
| Date | 9/15/94 | 9/15/94 | 9/15/94 | 9/15/94 | 9/15/94 | 9/15/94 |
| Well / Boring ID | WN13 | WN13 | WN13 | WN13 | WN13 | WN14 |
| Depth | 0 | 5 | 10 | 15 | 20 | 0 |
| Sample Type | PR | PR | PR | PR | PR | PR |
| trans-1,3-Dichloropropene | ND(5.8) | ND(5.2) | ND(5.1) | ND(5.4) | ND(5.2) | ND(5.2) |
| EPA 7421 | | | | | | |
| Lead (GFAA) | 32 | 4.2 | 2 | 3 | 1.9 | 4.7 |
| Other | | | | | | |
| Ammonia, as N (350.1) | NA | 4.4 | NA | NA | NA | NA |
| Ammonia, as N (Water Soluble) (350.1) | NA | NA | NA | NA | NA | NA |
| Nitrate, as N (Water Soluble)(353.1-354.1) | NA | 1 | NA | NA | NA | NA |
| Total Kjeldahl Nitrogen (351.2) | NA | 60 | NA | NA | NA | NA |
| Total Organic Carbon (415.1) | NA | 996 | NA | NA | NA | NA |
| Total Organic Carbon Quad 1 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 2 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 3 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 4 (415.1) | NA | NA | NA | NA | NA | NA |

# 1994 North Airfield Soil Results

| Sample ID | 94FWN177SL | 94FWN179SL | 94FWN180SL | 94FWN181SL | 94FWN182SL | 94FWN183SL |
|---|---|---|---|---|---|---|
| Date | 9/15/94 | 9/15/94 | 9/15/94 | 9/15/94 | 9/15/94 | 9/16/94 |
| Well / Boring ID | WN14 | WN14 | WN14 | WN14 | WN14 | WN12 |
| Depth | 5 | 5 | 10 | 15 | 20 | 0 |
| Sample Type | PR | QC | PR | PR | PR | PR |
| M8100 | | | | | | |
| Diesel Range Organics | ND(4.5) | ND(4.8) | ND(4.1) | ND(4.5) | ND(4.7) | 23 |
| M8015 | | | | | | |
| Gasoline Range Organics | ND(1.2) | ND(1.2) | ND(1) | ND(1.2) | 2.6 | ND(1) |
| 8260 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND(6.1) | ND(5.8) | ND(5.1) | ND(58) | ND(5.9) | ND(5.3) |
| 1,1,1-Trichloroethane | ND(6.1) | ND(5.8) | ND(5.1) | ND(58) | ND(5.9) | ND(5.3) |
| 1,1,2,2-Tetrachloroethane | ND(6.1) | ND(5.8) | ND(5.1) | ND(58) | ND(5.9) | ND(5.3) |
| 1,1,2-Trichloroethane | ND(6.1) | ND(5.8) | ND(5.1) | ND(58) | ND(5.9) | ND(5.3) |
| 1,1-Dichloroethane | ND(6.1) | ND(5.8) | ND(5.1) | ND(58) | ND(5.9) | ND(5.3) |
| 1,1-Dichloroethene | ND(6.1) | ND(5.8) | ND(5.1) | ND(58) | ND(5.9) | ND(5.3) |
| 1,1-Dichloropropene | ND(6.1) | ND(5.8) | ND(5.1) | ND(58) | ND(5.9) | ND(5.3) |
| 1,2,3-Trichlorobenzene | ND(6.1) | ND(5.8) | ND(5.1) | ND(58) | ND(5.9) | ND(5.3) |
| 1,2,3-Trichloropropane | ND(6.1) | ND(5.8) | ND(5.1) | ND(58) | ND(5.9) | ND(5.3) |
| 1,2,4-Trichlorobenzene | ND(6.1) | ND(5.8) | ND(5.1) | ND(58) | ND(5.9) | ND(5.3) |
| 1,2,4-Trimethylbenzene | ND(6.1) | ND(5.8) | ND(5.1) | 692 | ND(5.9) | ND(5.3) |
| 1,2-Dibromo-3-chloropropane | ND(6.1) | ND(5.8) | ND(5.1) | ND(58) | ND(5.9) | ND(5.3) |
| 1,2-Dibromoethane | ND(6.1) | ND(5.8) | ND(5.1) | ND(58) | ND(5.9) | ND(5.3) |
| 1,2-Dichlorobenzene | ND(6.1) | ND(5.8) | ND(5.1) | ND(58) | ND(5.9) | ND(5.3) |
| 1,2-Dichloroethane | ND(6.1) | ND(5.8) | ND(5.1) | ND(58) | ND(5.9) | ND(5.3) |
| 1,2-Dichloropropane | ND(6.1) | ND(5.8) | ND(5.1) | ND(58) | ND(5.9) | ND(5.3) |
| 1,3,5-Trimethylbenzene | ND(6.1) | ND(5.8) | ND(5.1) | 611 | ND(5.9) | ND(5.3) |
| 1,3-Dichlorobenzene | ND(6.1) | ND(5.8) | ND(5.1) | ND(58) | ND(5.9) | ND(5.3) |
| 1,3-Dichloropropane | ND(6.1) | ND(5.8) | ND(5.1) | ND(58) | ND(5.9) | ND(5.3) |
| 1,4-Dichlorobenzene | ND(6.1) | ND(5.8) | ND(5.1) | ND(58) | ND(5.9) | ND(5.3) |
| 2,2-Dichloropropane | ND(6.1) | ND(5.8) | ND(5.1) | ND(58) | ND(5.9) | ND(5.3) |
| 2-Butanone | ND(12) | ND(12) | ND(10) | ND(120) | ND(12) | ND(105) |
| 2-Chlorotoluene | ND(6.1) | ND(5.8) | ND(5.1) | ND(58) | ND(5.9) | ND(5.3) |
| 4-Chlorotoluene | ND(6.1) | ND(5.8) | ND(5.1) | ND(58) | ND(5.9) | ND(5.3) |
| Acetone | ND(12) | ND(12) | ND(10) | ND(120) | ND(12) | ND(105) |
| Benzene | ND(6.1) | ND(5.8) | ND(5.1) | ND(58) | ND(5.9) | ND(5.3) |
| Bromobenzene | ND(6.1) | ND(5.8) | ND(5.1) | ND(58) | ND(5.9) | ND(5.3) |
| Bromochloromethane | ND(6.1) | ND(5.8) | ND(5.1) | ND(58) | ND(5.9) | ND(5.3) |
| Bromodichloromethane | ND(6.1) | ND(5.8) | ND(5.1) | ND(58) | ND(5.9) | ND(5.3) |
| Bromoform | ND(6.1) | ND(5.8) | ND(5.1) | ND(58) | ND(5.9) | ND(10) |
| Bromomethane | ND(6.1) | ND(5.8) | ND(5.1) | ND(58) | ND(5.9) | ND(5.3) |
| Carbon Tetrachloride | ND(6.1) | ND(5.8) | ND(5.1) | ND(58) | ND(5.9) | ND(5.3) |
| Chlorobenzene | ND(6.1) | ND(5.8) | ND(5.1) | ND(58) | ND(5.9) | ND(5.3) |
| Chloroethane | ND(6.1) | ND(5.8) | ND(5.1) | ND(58) | ND(5.9) | ND(10) |
| Chloroform | ND(6.1) | ND(5.8) | ND(5.1) | ND(58) | ND(5.9) | ND(5.3) |
| Chloromethane | ND(6.1) | ND(5.8) | ND(5.1) | ND(58) | ND(5.9) | ND(10) |
| Dibromochloromethane | ND(6.1) | ND(5.8) | ND(5.1) | ND(58) | ND(5.9) | ND(5.3) |
| Dibromomethane | ND(6.1) | ND(5.8) | ND(5.1) | ND(58) | ND(5.9) | ND(5.3) |
| Dichlorodifluoromethane | ND(6.1) | ND(5.8) | ND(5.1) | ND(58) | ND(5.9) | ND(5.3) |
| Ethyl benzene | ND(6.1) | ND(5.8) | ND(5.1) | ND(58) | ND(5.9) | ND(5.3) |
| Hexachlorobutadiene | ND(6.1) | ND(5.8) | ND(5.1) | ND(58) | ND(5.9) | ND(5.3) |
| Isopropylbenzene | ND(6.1) | ND(5.8) | ND(5.1) | ND(58) | ND(5.9) | ND(5.3) |
| Methylene chloride | 8.7 | 8.3 | 6.7 | ND(58) | 9 | ND(10) |
| Naphthalene | ND(6.1) | 5.9 | ND(5.1) | ND(58) | ND(5.9) | ND(5.3) |
| Styrene | ND(6.1) | ND(5.8) | ND(5.1) | ND(58) | ND(5.9) | ND(5.3) |
| Tetrachloroethene | ND(6.1) | ND(5.8) | ND(5.1) | ND(58) | ND(5.9) | ND(5.3) |
| Toluene | ND(6.1) | ND(5.8) | ND(5.1) | ND(58) | ND(5.9) | ND(5.3) |
| Trichloroethene | ND(6.1) | ND(5.8) | ND(5.1) | ND(58) | ND(5.9) | ND(5.3) |
| Trichlorofluoromethane | ND(6.1) | ND(5.8) | ND(5.1) | ND(58) | ND(5.9) | ND(5.3) |
| Vinyl chloride | ND(6.1) | ND(5.8) | ND(5.1) | ND(58) | ND(5.9) | ND(10) |
| cis-1,2-Dichloroethene | ND(6.1) | ND(5.8) | ND(5.1) | ND(58) | ND(5.9) | ND(5.3) |
| cis-1,3-Dichloropropene | ND(6.1) | ND(5.8) | ND(5.1) | ND(58) | ND(5.9) | ND(5.3) |
| m & p-Xylene | ND(6.1) | ND(5.8) | ND(5.1) | 138 | ND(5.9) | ND(5.3) |
| n-Butylbenzene | ND(6.1) | ND(5.8) | ND(5.1) | ND(58) | ND(5.9) | ND(5.3) |
| n-Propylbenzene | ND(6.1) | ND(5.8) | ND(5.1) | ND(58) | ND(5.9) | ND(5.3) |
| o-Xylene | ND(6.1) | ND(5.8) | ND(5.1) | ND(58) | ND(5.9) | ND(5.3) |
| p-Isopropyltoluene | ND(6.1) | ND(5.8) | ND(5.1) | 86 | ND(5.9) | ND(5.3) |
| sec-Butylbenzene | ND(6.1) | ND(5.8) | ND(5.1) | ND(58) | ND(5.9) | ND(5.3) |
| tert-Butylbenzene | ND(6.1) | ND(5.8) | ND(5.1) | ND(58) | ND(5.9) | ND(5.3) |
| trans-1,2-Dichloroethene | ND(6.1) | ND(5.8) | ND(5.1) | ND(58) | ND(5.9) | ND(5.3) |

# 1994 North Airfield Soil Results

| Sample ID | 94FWN177SL | 94FWN179SL | 94FWN180SL | 94FWN181SL | 94FWN182SL | 94FWN183SL |
|---|---|---|---|---|---|---|
| Date | 9/15/94 | 9/15/94 | 9/15/94 | 9/15/94 | 9/15/94 | 9/16/94 |
| Well / Boring ID | WN14 | WN14 | WN14 | WN14 | WN14 | WN12 |
| Depth | 5 | 5 | 10 | 15 | 20 | 0 |
| Sample Type | PR | QC | PR | PR | PR | PR |
| trans-1,3-Dichloropropene | ND(6.1) | ND(5.8) | ND(5.1) | ND(58) | ND(5.9) | ND(5.3) |
| EPA 7421 | | | | | | |
| Lead (GFAA) | 4.9 | 5.1 | 4 | 3.4 | 2.4 | 11 |
| Other | | | | | | |
| Ammonia, as N (350.1) | 5.3 | 11 | NA | NA | NA | NA |
| Ammonia, as N (Water Soluble) (350.1) | NA | NA | NA | NA | NA | NA |
| Nitrate, as N (Water Soluble)(353.1-354.1) | 1.1 | 2.1 | NA | NA | NA | NA |
| Total Kjeldahl Nitrogen (351.2) | 87 | 100 | NA | NA | NA | NA |
| Total Organic Carbon (415.1) | 2020 | 1790 | NA | NA | NA | NA |
| Total Organic Carbon Quad 1 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 2 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 3 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 4 (415.1) | NA | NA | NA | NA | NA | NA |

# 1994 North Airfield Soil Results

| Sample ID | 94FWN184SL | 94FWN185SL | 94FWN186SL | 94FWN187SL | 94FWN188SL | 94FWN189SL |
|---|---|---|---|---|---|---|
| Date | 9/16/94 | 9/16/94 | 9/16/94 | 9/16/94 | 9/16/94 | 9/20/94 |
| Well / Boring ID | WN12 | WN12 | WN12 | WN12 | WN12 | BN18 |
| Depth | 5 | 10 | 15 | 20 | 25 | 0 |
| Sample Type | PR | PR | PR | PR | PR | PR |
| M8100 | | | | | | |
| Diesel Range Organics | ND(4.1) | ND(4.1) | ND(5.1) | ND(4.6) | ND(4.9) | 30 |
| M8015 | | | | | | |
| Gasoline Range Organics | ND(1) | ND(1) | ND(1.3) | ND(1.2) | ND(1.3) | ND(1.3) |
| 8260 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND(5.1) | ND(5.1) | ND(6.5) | ND(6) | ND(6.4) | ND(26) |
| 1,1,1-Trichloroethane | ND(5.1) | ND(5.1) | ND(6.5) | ND(6) | ND(6.4) | ND(26) |
| 1,1,2,2-Tetrachloroethane | ND(5.1) | ND(5.1) | ND(6.5) | ND(6) | ND(6.4) | ND(26) |
| 1,1,2-Trichloroethane | ND(5.1) | ND(5.1) | ND(6.5) | ND(6) | ND(6.4) | ND(26) |
| 1,1-Dichloroethane | ND(5.1) | ND(5.1) | ND(6.5) | ND(6) | ND(6.4) | ND(26) |
| 1,1-Dichloroethene | ND(5.1) | ND(5.1) | ND(6.5) | ND(6) | ND(6.4) | ND(26) |
| 1,1-Dichloropropene | ND(5.1) | ND(5.1) | ND(6.5) | ND(6) | ND(6.4) | ND(26) |
| 1,2,3-Trichlorobenzene | ND(5.1) | ND(5.1) | ND(6.5) | ND(6) | ND(6.4) | ND(26) |
| 1,2,3-Trichloropropane | ND(5.1) | ND(5.1) | ND(6.5) | ND(6) | ND(6.4) | ND(26) |
| 1,2,4-Trichlorobenzene | ND(5.1) | ND(5.1) | ND(6.5) | ND(6) | ND(6.4) | ND(26) |
| 1,2,4-Trimethylbenzene | ND(5.1) | ND(5.1) | ND(6.5) | ND(6) | ND(6.4) | ND(26) |
| 1,2-Dibromo-3-chloropropane | ND(5.1) | ND(5.1) | ND(6.5) | ND(6) | ND(6.4) | ND(26) |
| 1,2-Dibromoethane | ND(5.1) | ND(5.1) | ND(6.5) | ND(6) | ND(6.4) | ND(26) |
| 1,2-Dichlorobenzene | ND(5.1) | ND(5.1) | ND(6.5) | ND(6) | ND(6.4) | ND(26) |
| 1,2-Dichloroethane | ND(5.1) | ND(5.1) | ND(6.5) | ND(6) | ND(6.4) | ND(26) |
| 1,2-Dichloropropane | ND(5.1) | ND(5.1) | ND(6.5) | ND(6) | ND(6.4) | ND(26) |
| 1,3,5-Trimethylbenzene | ND(5.1) | ND(5.1) | ND(6.5) | ND(6) | ND(6.4) | ND(26) |
| 1,3-Dichlorobenzene | ND(5.1) | ND(5.1) | ND(6.5) | ND(6) | ND(6.4) | ND(26) |
| 1,3-Dichloropropane | ND(5.1) | ND(5.1) | ND(6.5) | ND(6) | ND(6.4) | ND(26) |
| 1,4-Dichlorobenzene | ND(5.1) | ND(5.1) | ND(6.5) | ND(6) | ND(6.4) | ND(26) |
| 2,2-Dichloropropane | ND(5.1) | ND(5.1) | ND(6.5) | ND(6) | ND(6.4) | ND(26) |
| 2-Butanone | ND(102) | ND(103) | ND(130) | ND(120) | ND(128) | ND(66) |
| 2-Chlorotoluene | ND(5.1) | ND(5.1) | ND(6.5) | ND(6) | ND(6.4) | ND(26) |
| 4-Chlorotoluene | ND(5.1) | ND(5.1) | ND(6.5) | ND(6) | ND(6.4) | ND(26) |
| Acetone | ND(102) | ND(103) | ND(130) | ND(120) | ND(128) | ND(66) |
| Benzene | ND(5.1) | ND(5.1) | ND(6.5) | ND(6) | ND(6.4) | ND(26) |
| Bromobenzene | ND(5.1) | ND(5.1) | ND(6.5) | ND(6) | ND(6.4) | ND(26) |
| Bromochloromethane | ND(5.1) | ND(5.1) | ND(6.5) | ND(6) | ND(6.4) | ND(26) |
| Bromodichloromethane | ND(5.1) | ND(5.1) | ND(6.5) | ND(6) | ND(6.4) | ND(26) |
| Bromoform | ND(10) | ND(10) | ND(13) | ND(12) | ND(13) | ND(26) |
| Bromomethane | ND(5.1) | ND(5.1) | ND(6.5) | ND(6) | ND(6.4) | ND(26) |
| Carbon Tetrachloride | ND(5.1) | ND(5.1) | ND(6.5) | ND(6) | ND(6.4) | ND(26) |
| Chlorobenzene | ND(5.1) | ND(5.1) | ND(6.5) | ND(6) | ND(6.4) | ND(26) |
| Chloroethane | ND(10) | ND(10) | ND(13) | ND(12) | ND(13) | ND(26) |
| Chloroform | ND(5.1) | ND(5.1) | ND(6.5) | ND(6) | ND(6.4) | ND(26) |
| Chloromethane | ND(10) | ND(10) | ND(13) | ND(12) | ND(13) | ND(26) |
| Dibromochloromethane | ND(5.1) | ND(5.1) | ND(6.5) | ND(6) | ND(6.4) | ND(26) |
| Dibromomethane | ND(5.1) | ND(5.1) | ND(6.5) | ND(6) | ND(6.4) | ND(26) |
| Dichlorodifluoromethane | ND(5.1) | ND(5.1) | ND(6.5) | ND(6) | ND(6.4) | ND(26) |
| Ethyl benzene | ND(5.1) | ND(5.1) | ND(6.5) | ND(6) | ND(6.4) | ND(26) |
| Hexachlorobutadiene | ND(5.1) | ND(5.1) | ND(6.5) | ND(6) | ND(6.4) | ND(26) |
| Isopropylbenzene | ND(5.1) | ND(5.1) | ND(6.5) | ND(6) | ND(6.4) | ND(26) |
| Methylene chloride | ND(10) | ND(10) | ND(13) | ND(12) | ND(13) | ND(26) |
| Naphthalene | ND(5.1) | ND(5.1) | ND(6.5) | ND(6) | ND(6.4) | ND(26) |
| Styrene | ND(5.1) | ND(5.1) | ND(6.5) | ND(6) | ND(6.4) | ND(26) |
| Tetrachloroethene | ND(5.1) | ND(5.1) | ND(6.5) | ND(6) | ND(6.4) | ND(26) |
| Toluene | ND(5.1) | ND(5.1) | ND(6.5) | ND(6) | ND(6.4) | ND(26) |
| Trichloroethene | ND(5.1) | ND(5.1) | ND(6.5) | ND(6) | ND(6.4) | ND(26) |
| Trichlorofluoromethane | ND(5.1) | ND(5.1) | ND(6.5) | ND(6) | ND(6.4) | ND(26) |
| Vinyl chloride | ND(10) | ND(10) | ND(13) | ND(12) | ND(13) | ND(26) |
| cis-1,2-Dichloroethene | ND(5.1) | ND(5.1) | ND(6.5) | ND(6) | ND(6.4) | ND(26) |
| cis-1,3-Dichloropropene | ND(5.1) | ND(5.1) | ND(6.5) | ND(6) | ND(6.4) | ND(26) |
| m & p-Xylene | ND(5.1) | ND(5.1) | ND(6.5) | ND(6) | ND(6.4) | ND(26) |
| n-Butylbenzene | ND(5.1) | ND(5.1) | ND(6.5) | ND(6) | ND(6.4) | ND(26) |
| n-Propylbenzene | ND(5.1) | ND(5.1) | ND(6.5) | ND(6) | ND(6.4) | ND(26) |
| o-Xylene | ND(5.1) | ND(5.1) | ND(6.5) | ND(6) | ND(6.4) | ND(26) |
| p-Isopropyltoluene | ND(5.1) | ND(5.1) | ND(6.5) | ND(6) | ND(6.4) | ND(26) |
| sec-Butylbenzene | ND(5.1) | ND(5.1) | ND(6.5) | ND(6) | ND(6.4) | ND(26) |
| tert-Butylbenzene | ND(5.1) | ND(5.1) | ND(6.5) | ND(6) | ND(6.4) | ND(26) |
| trans-1,2-Dichloroethene | ND(5.1) | ND(5.1) | ND(6.5) | ND(6) | ND(6.4) | ND(26) |

# 1994 North Airfield Soil Results

| Sample ID | 94FWN184SL | 94FWN185SL | 94FWN186SL | 94FWN187SL | 94FWN188SL | 94FWN189SL |
|---|---|---|---|---|---|---|
| Date | 9/16/94 | 9/16/94 | 9/16/94 | 9/16/94 | 9/16/94 | 9/20/94 |
| Well / Boring ID | WN12 | WN12 | WN12 | WN12 | WN12 | BN18 |
| Depth | 5 | 10 | 15 | 20 | 25 | 0 |
| Sample Type | PR | PR | PR | PR | PR | PR |
| trans-1,3-Dichloropropene | ND(5.1) | ND(5.1) | ND(6.5) | ND(6) | ND(6.4) | ND(26) |
| EPA 7421 | | | | | | |
| Lead (GFAA) | 4.1 | 3.8 | 3.4 | 2.6 | 3.9 | 21 |
| Other | | | | | | |
| Ammonia, as N (350.1) | NA | NA | NA | NA | 2.7 | NA |
| Ammonia, as N (Water Soluble) (350.1) | NA | NA | NA | NA | NA | NA |
| Nitrate, as N (Water Soluble)(353.1-354.1) | NA | NA | NA | NA | 1.3 | NA |
| Total Kjeldahl Nitrogen (351.2) | NA | NA | NA | NA | 54 | NA |
| Total Organic Carbon (415.1) | NA | NA | NA | NA | 1220 | NA |
| Total Organic Carbon Quad 1 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 2 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 3 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 4 (415.1) | NA | NA | NA | NA | NA | NA |

# 1994 North Airfield Soil Results

| Sample ID | 94FWN190SL | 94FWN191SL | 94FWN192SL | 94FWN193SL | 94FWN194SL | 94FWN196SL |
|---|---|---|---|---|---|---|
| Date | 9/20/94 | 9/20/94 | 9/20/94 | 9/20/94 | 9/20/94 | 9/20/94 |
| Well / Boring ID | BN18 | BN18 | BN18 | BN18 | BN18 | BN18 |
| Depth | 5 | 10 | 15 | 20 | 25 | 25 |
| Sample Type | PR | PR | PR | PR | PR | QC |
| M8100 | | | | | | |
| Diesel Range Organics | 6.5 | ND(4.2) | 28 | 15 | 7.3 | 6.3 |
| M8015 | | | | | | |
| Gasoline Range Organics | ND(1.1) | ND(1) | 1.8 | 6.8 | ND(1.2) | ND(1.2) |
| 8260 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND(5.6) | ND(5.2) | ND(5.4) | ND(5.5) | ND(6) | ND(6.1) |
| 1,1,1-Trichloroethane | ND(5.6) | ND(5.2) | ND(5.4) | ND(5.5) | ND(6) | ND(6.1) |
| 1,1,2,2-Tetrachloroethane | ND(5.6) | ND(5.2) | ND(5.4) | ND(5.5) | ND(6) | ND(6.1) |
| 1,1,2-Trichloroethane | ND(5.6) | ND(5.2) | ND(5.4) | ND(5.5) | ND(6) | ND(6.1) |
| 1,1-Dichloroethane | ND(5.6) | ND(5.2) | ND(5.4) | ND(5.5) | ND(6) | ND(6.1) |
| 1,1-Dichloroethene | ND(5.6) | ND(5.2) | ND(5.4) | ND(5.5) | ND(6) | ND(6.1) |
| 1,1-Dichloropropene | ND(5.6) | ND(5.2) | ND(5.4) | ND(5.5) | ND(6) | ND(6.1) |
| 1,2,3-Trichlorobenzene | ND(5.6) | ND(5.2) | ND(5.4) | ND(5.5) | ND(6) | ND(6.1) |
| 1,2,3-Trichloropropane | ND(5.6) | ND(5.2) | ND(5.4) | ND(5.5) | ND(6) | ND(6.1) |
| 1,2,4-Trichlorobenzene | ND(5.6) | ND(5.2) | ND(5.4) | ND(5.5) | ND(6) | ND(6.1) |
| 1,2,4-Trimethylbenzene | ND(5.6) | ND(5.2) | ND(5.4) | ND(5.5) | ND(6) | ND(6.1) |
| 1,2-Dibromo-3-chloropropane | ND(5.6) | ND(5.2) | ND(5.4) | ND(5.5) | ND(6) | ND(6.1) |
| 1,2-Dibromoethane | ND(5.6) | ND(5.2) | ND(5.4) | ND(5.5) | ND(6) | ND(6.1) |
| 1,2-Dichlorobenzene | ND(5.6) | ND(5.2) | ND(5.4) | ND(5.5) | ND(6) | ND(6.1) |
| 1,2-Dichloroethane | ND(5.6) | ND(5.2) | ND(5.4) | ND(5.5) | ND(6) | ND(6.1) |
| 1,2-Dichloropropane | ND(5.6) | ND(5.2) | ND(5.4) | ND(5.5) | ND(6) | ND(6.1) |
| 1,3,5-Trimethylbenzene | ND(5.6) | ND(5.2) | ND(5.4) | ND(5.5) | ND(6) | ND(6.1) |
| 1,3-Dichlorobenzene | ND(5.6) | ND(5.2) | ND(5.4) | ND(5.5) | ND(6) | ND(6.1) |
| 1,3-Dichloropropane | ND(5.6) | ND(5.2) | ND(5.4) | ND(5.5) | ND(6) | ND(6.1) |
| 1,4-Dichlorobenzene | ND(5.6) | ND(5.2) | ND(5.4) | ND(5.5) | ND(6) | ND(6.1) |
| 2,2-Dichloropropane | ND(5.6) | ND(5.2) | ND(5.4) | ND(5.5) | ND(6) | ND(6.1) |
| 2-Butanone | ND(11) | ND(10) | ND(11) | ND(11) | ND(12) | ND(12) |
| 2-Chlorotoluene | ND(5.6) | ND(5.2) | ND(5.4) | ND(5.5) | ND(6) | ND(6.1) |
| 4-Chlorotoluene | ND(5.6) | ND(5.2) | ND(5.4) | ND(5.5) | ND(6) | ND(6.1) |
| Acetone | 26 | 22 | ND(11) | ND(11) | ND(12) | ND(12) |
| Benzene | ND(5.6) | ND(5.2) | ND(5.4) | ND(5.5) | ND(6) | ND(6.1) |
| Bromobenzene | ND(5.6) | ND(5.2) | ND(5.4) | ND(5.5) | ND(6) | ND(6.1) |
| Bromochloromethane | ND(5.6) | ND(5.2) | ND(5.4) | ND(5.5) | ND(6) | ND(6.1) |
| Bromodichloromethane | ND(5.6) | ND(5.2) | ND(5.4) | ND(5.5) | ND(6) | ND(6.1) |
| Bromoform | ND(5.6) | ND(5.2) | ND(5.4) | ND(5.5) | ND(6) | ND(6.1) |
| Bromomethane | ND(5.6) | ND(5.2) | ND(5.4) | ND(5.5) | ND(6) | ND(6.1) |
| Carbon Tetrachloride | ND(5.6) | ND(5.2) | ND(5.4) | ND(5.5) | ND(6) | ND(6.1) |
| Chlorobenzene | ND(5.6) | ND(5.2) | ND(5.4) | ND(5.5) | ND(6) | ND(6.1) |
| Chloroethane | ND(5.6) | ND(5.2) | ND(5.4) | ND(5.5) | ND(6) | ND(6.1) |
| Chloroform | ND(5.6) | ND(5.2) | ND(5.4) | ND(5.5) | ND(6) | ND(6.1) |
| Chloromethane | ND(5.6) | ND(5.2) | ND(5.4) | ND(5.5) | ND(6) | ND(6.1) |
| Dibromochloromethane | ND(5.6) | ND(5.2) | ND(5.4) | ND(5.5) | ND(6) | ND(6.1) |
| Dibromomethane | ND(5.6) | ND(5.2) | ND(5.4) | ND(5.5) | ND(6) | ND(6.1) |
| Dichlorodifluoromethane | ND(5.6) | ND(5.2) | ND(5.4) | ND(5.5) | ND(6) | ND(6.1) |
| Ethyl benzene | ND(5.6) | ND(5.2) | ND(5.4) | ND(5.5) | ND(6) | ND(6.1) |
| Hexachlorobutadiene | ND(5.6) | ND(5.2) | ND(5.4) | ND(5.5) | ND(6) | ND(6.1) |
| Isopropylbenzene | ND(5.6) | ND(5.2) | ND(5.4) | ND(5.5) | ND(6) | ND(6.1) |
| Methylene chloride | 6 | 6 | ND(5.4) | ND(5.5) | ND(6) | 9.1 |
| Naphthalene | ND(5.6) | ND(5.2) | ND(5.4) | ND(5.5) | ND(6) | ND(6.1) |
| Styrene | ND(5.6) | ND(5.2) | ND(5.4) | ND(5.5) | ND(6) | ND(6.1) |
| Tetrachloroethene | ND(5.6) | ND(5.2) | ND(5.4) | ND(5.5) | ND(6) | ND(6.1) |
| Toluene | ND(5.6) | ND(5.2) | ND(5.4) | ND(5.5) | ND(6) | ND(6.1) |
| Trichloroethene | ND(5.6) | ND(5.2) | ND(5.4) | ND(5.5) | ND(6) | ND(6.1) |
| Trichlorofluoromethane | ND(5.6) | ND(5.2) | ND(5.4) | ND(5.5) | ND(6) | ND(6.1) |
| Vinyl chloride | ND(5.6) | ND(5.2) | ND(5.4) | ND(5.5) | ND(6) | ND(6.1) |
| cis-1,2-Dichloroethene | ND(5.6) | ND(5.2) | ND(5.4) | ND(5.5) | ND(6) | ND(6.1) |
| cis-1,3-Dichloropropene | ND(5.6) | ND(5.2) | ND(5.4) | ND(5.5) | ND(6) | ND(6.1) |
| m & p-Xylene | ND(5.6) | ND(5.2) | ND(5.4) | ND(5.5) | ND(6) | ND(6.1) |
| n-Butylbenzene | ND(5.6) | ND(5.2) | ND(5.4) | ND(5.5) | ND(6) | ND(6.1) |
| n-Propylbenzene | ND(5.6) | ND(5.2) | ND(5.4) | ND(5.5) | ND(6) | ND(6.1) |
| o-Xylene | ND(5.6) | ND(5.2) | ND(5.4) | ND(5.5) | ND(6) | ND(6.1) |
| p-Isopropyltoluene | ND(5.6) | ND(5.2) | ND(5.4) | ND(5.5) | ND(6) | ND(6.1) |
| sec-Butylbenzene | ND(5.6) | ND(5.2) | ND(5.4) | ND(5.5) | ND(6) | ND(6.1) |
| tert-Butylbenzene | ND(5.6) | ND(5.2) | ND(5.4) | ND(5.5) | ND(6) | ND(6.1) |
| trans-1,2-Dichloroethene | ND(5.6) | ND(5.2) | ND(5.4) | ND(5.5) | ND(6) | ND(6.1) |

# 1994 North Airfield Soil Results

| Sample ID | 94FWN190SL | 94FWN191SL | 94FWN192SL | 94FWN193SL | 94FWN194SL | 94FWN196SL |
|---|---|---|---|---|---|---|
| Date | 9/20/94 | 9/20/94 | 9/20/94 | 9/20/94 | 9/20/94 | 9/20/94 |
| Well / Boring ID | BN18 | BN18 | BN18 | BN18 | BN18 | BN18 |
| Depth | 5 | 10 | 15 | 20 | 25 | 25 |
| Sample Type | PR | PR | PR | PR | PR | QC |
| trans-1,3-Dichloropropene | ND(5.6) | ND(5.2) | ND(5.4) | ND(5.5) | ND(6) | ND(6.1) |
| EPA 7421 | | | | | | |
| Lead (GFAA) | 4.2 | 4 | 3 | 2.7 | 2.3 | 2.4 |
| Other | | | | | | |
| Ammonia, as N (350.1) | NA | NA | NA | NA | ND(5.6) | ND(6) |
| Ammonia, as N (Water Soluble) (350.1) | NA | NA | NA | NA | NA | NA |
| Nitrate, as N (Water Soluble)(353.1-354.1) | NA | NA | NA | NA | 0.3 | ND(0.4) |
| Total Kjeldahl Nitrogen (351.2) | NA | NA | NA | NA | 13 | 18 |
| Total Organic Carbon (415.1) | NA | NA | NA | NA | 500 | 908 |
| Total Organic Carbon Quad 1 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 2 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 3 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 4 (415.1) | NA | NA | NA | NA | NA | NA |

# 1994 North Airfield Soil Results

| Sample ID | 94FWN197SL | 94FWN198SL | 94FWN199SL | 94FWN200SL | 94FWN201SL | 94FWN202SL |
|---|---|---|---|---|---|---|
| Date | 9/20/94 | 9/20/94 | 9/20/94 | 9/20/94 | 9/20/94 | 9/20/94 |
| Well / Boring ID | BN19 | BN19 | BN19 | BN19 | BN19 | BN19 |
| Depth | 0 | 5 | 10 | 15 | 20 | 25 |
| Sample Type | PR | PR | PR | PR | PR | PR |
| M8100 | | | | | | |
| Diesel Range Organics | 41 | ND(4.3) | ND(4.1) | ND(4.9) | 5.9 | 5.4 |
| M8015 | | | | | | |
| Gasoline Range Organics | ND(1.1) | ND(1.1) | ND(1) | ND(1.2) | ND(1.1) | ND(1.2) |
| 8260 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND(22) | ND(5.5) | ND(5.1) | ND(6.1) | ND(5.7) | ND(5.9) |
| 1,1,1-Trichloroethane | ND(22) | ND(5.5) | ND(5.1) | ND(6.1) | ND(5.7) | ND(5.9) |
| 1,1,2,2-Tetrachloroethane | ND(22) | ND(5.5) | ND(5.1) | ND(6.1) | ND(5.7) | ND(5.9) |
| 1,1,2-Trichloroethane | ND(22) | ND(5.5) | ND(5.1) | ND(6.1) | ND(5.7) | ND(5.9) |
| 1,1-Dichloroethane | ND(22) | ND(5.5) | ND(5.1) | ND(6.1) | ND(5.7) | ND(5.9) |
| 1,1-Dichloroethene | ND(22) | ND(5.5) | ND(5.1) | ND(6.1) | ND(5.7) | ND(5.9) |
| 1,1-Dichloropropene | ND(22) | ND(5.5) | ND(5.1) | ND(6.1) | ND(5.7) | ND(5.9) |
| 1,2,3-Trichlorobenzene | ND(22) | ND(5.5) | ND(5.1) | ND(6.1) | ND(5.7) | ND(5.9) |
| 1,2,3-Trichloropropane | ND(22) | ND(5.5) | ND(5.1) | ND(6.1) | ND(5.7) | ND(5.9) |
| 1,2,4-Trichlorobenzene | ND(22) | ND(5.5) | ND(5.1) | ND(6.1) | ND(5.7) | ND(5.9) |
| 1,2,4-Trimethylbenzene | ND(22) | ND(5.5) | ND(5.1) | ND(6.1) | ND(5.7) | ND(5.9) |
| 1,2-Dibromo-3-chloropropane | ND(22) | ND(5.5) | ND(5.1) | ND(6.1) | ND(5.7) | ND(5.9) |
| 1,2-Dibromoethane | ND(22) | ND(5.5) | ND(5.1) | ND(6.1) | ND(5.7) | ND(5.9) |
| 1,2-Dichlorobenzene | ND(22) | ND(5.5) | ND(5.1) | ND(6.1) | ND(5.7) | ND(5.9) |
| 1,2-Dichloroethane | ND(22) | ND(5.5) | ND(5.1) | ND(6.1) | ND(5.7) | ND(5.9) |
| 1,2-Dichloropropane | ND(22) | ND(5.5) | ND(5.1) | ND(6.1) | ND(5.7) | ND(5.9) |
| 1,3,5-Trimethylbenzene | ND(22) | ND(5.5) | ND(5.1) | ND(6.1) | ND(5.7) | ND(5.9) |
| 1,3-Dichlorobenzene | ND(22) | ND(5.5) | ND(5.1) | ND(6.1) | ND(5.7) | ND(5.9) |
| 1,3-Dichloropropane | ND(22) | ND(5.5) | ND(5.1) | ND(6.1) | ND(5.7) | ND(5.9) |
| 1,4-Dichlorobenzene | ND(22) | ND(5.5) | ND(5.1) | ND(6.1) | ND(5.7) | ND(5.9) |
| 2,2-Dichloropropane | ND(22) | ND(5.5) | ND(5.1) | ND(6.1) | ND(5.7) | ND(5.9) |
| 2-Butanone | ND(56) | ND(11) | ND(10) | ND(12) | ND(11) | ND(12) |
| 2-Chlorotoluene | ND(22) | ND(5.5) | ND(5.1) | ND(6.1) | ND(5.7) | ND(5.9) |
| 4-Chlorotoluene | ND(22) | ND(5.5) | ND(5.1) | ND(6.1) | ND(5.7) | ND(5.9) |
| Acetone | ND(56) | ND(11) | ND(10) | ND(12) | ND(11) | ND(12) |
| Benzene | ND(22) | ND(5.5) | ND(5.1) | ND(6.1) | ND(5.7) | ND(5.9) |
| Bromobenzene | ND(22) | ND(5.5) | ND(5.1) | ND(6.1) | ND(5.7) | ND(5.9) |
| Bromochloromethane | ND(22) | ND(5.5) | ND(5.1) | ND(6.1) | ND(5.7) | ND(5.9) |
| Bromodichloromethane | ND(22) | ND(5.5) | ND(5.1) | ND(6.1) | ND(5.7) | ND(5.9) |
| Bromoform | ND(22) | ND(5.5) | ND(5.1) | ND(6.1) | ND(5.7) | ND(5.9) |
| Bromomethane | ND(22) | ND(5.5) | ND(5.1) | ND(6.1) | ND(5.7) | ND(5.9) |
| Carbon Tetrachloride | ND(22) | ND(5.5) | ND(5.1) | ND(6.1) | ND(5.7) | ND(5.9) |
| Chlorobenzene | ND(22) | ND(5.5) | ND(5.1) | ND(6.1) | ND(5.7) | ND(5.9) |
| Chloroethane | ND(22) | ND(5.5) | ND(5.1) | ND(6.1) | ND(5.7) | ND(5.9) |
| Chloroform | ND(22) | ND(5.5) | ND(5.1) | ND(6.1) | ND(5.7) | ND(5.9) |
| Chloromethane | ND(22) | ND(5.5) | ND(5.1) | ND(6.1) | ND(5.7) | ND(5.9) |
| Dibromochloromethane | ND(22) | ND(5.5) | ND(5.1) | ND(6.1) | ND(5.7) | ND(5.9) |
| Dibromomethane | ND(22) | ND(5.5) | ND(5.1) | ND(6.1) | ND(5.7) | ND(5.9) |
| Dichlorodifluoromethane | ND(22) | ND(5.5) | ND(5.1) | ND(6.1) | ND(5.7) | ND(5.9) |
| Ethyl benzene | ND(22) | ND(5.5) | ND(5.1) | ND(6.1) | ND(5.7) | ND(5.9) |
| Hexachlorobutadiene | ND(22) | ND(5.5) | ND(5.1) | ND(6.1) | ND(5.7) | ND(5.9) |
| Isopropylbenzene | ND(22) | ND(5.5) | ND(5.1) | ND(6.1) | ND(5.7) | ND(5.9) |
| Methylene chloride | 28 | 7.7 | 6.8 | ND(6.1) | 8.7 | 7.6 |
| Naphthalene | ND(22) | ND(5.5) | ND(5.1) | ND(6.1) | ND(5.7) | ND(5.9) |
| Styrene | ND(22) | ND(5.5) | ND(5.1) | ND(6.1) | ND(5.7) | ND(5.9) |
| Tetrachloroethene | ND(22) | ND(5.5) | ND(5.1) | ND(6.1) | ND(5.7) | ND(5.9) |
| Toluene | ND(22) | ND(5.5) | ND(5.1) | ND(6.1) | ND(5.7) | ND(5.9) |
| Trichloroethene | ND(22) | ND(5.5) | ND(5.1) | ND(6.1) | ND(5.7) | ND(5.9) |
| Trichlorofluoromethane | ND(22) | ND(5.5) | ND(5.1) | ND(6.1) | ND(5.7) | ND(5.9) |
| Vinyl chloride | ND(22) | ND(5.5) | ND(5.1) | ND(6.1) | ND(5.7) | ND(5.9) |
| cis-1,2-Dichloroethene | ND(22) | ND(5.5) | ND(5.1) | ND(6.1) | ND(5.7) | ND(5.9) |
| cis-1,3-Dichloropropene | ND(22) | ND(5.5) | ND(5.1) | ND(6.1) | ND(5.7) | ND(5.9) |
| m & p-Xylene | ND(22) | ND(5.5) | ND(5.1) | ND(6.1) | ND(5.7) | ND(5.9) |
| n-Butylbenzene | ND(22) | ND(5.5) | ND(5.1) | ND(6.1) | ND(5.7) | ND(5.9) |
| n-Propylbenzene | ND(22) | ND(5.5) | ND(5.1) | ND(6.1) | ND(5.7) | ND(5.9) |
| o-Xylene | ND(22) | ND(5.5) | ND(5.1) | ND(6.1) | ND(5.7) | ND(5.9) |
| p-Isopropyltoluene | ND(22) | ND(5.5) | ND(5.1) | ND(6.1) | ND(5.7) | ND(5.9) |
| sec-Butylbenzene | ND(22) | ND(5.5) | ND(5.1) | ND(6.1) | ND(5.7) | ND(5.9) |
| tert-Butylbenzene | ND(22) | ND(5.5) | ND(5.1) | ND(6.1) | ND(5.7) | ND(5.9) |
| trans-1,2-Dichloroethene | ND(22) | ND(5.5) | ND(5.1) | ND(6.1) | ND(5.7) | ND(5.9) |

# 1994 North Airfield Soil Results

| Sample ID | 94FWN197SL | 94FWN198SL | 94FWN199SL | 94FWN200SL | 94FWN201SL | 94FWN202SL |
|---|---|---|---|---|---|---|
| Date | 9/20/94 | 9/20/94 | 9/20/94 | 9/20/94 | 9/20/94 | 9/20/94 |
| Well / Boring ID | BN19 | BN19 | BN19 | BN19 | BN19 | BN19 |
| Depth | 0 | 5 | 10 | 15 | 20 | 25 |
| Sample Type | PR | PR | PR | PR | PR | PR |
| trans-1,3-Dichloropropene | ND(22) | ND(5.5) | ND(5.1) | ND(6.1) | ND(5.7) | ND(5.9) |
| EPA 7421 | | | | | | |
| Lead (GFAA) | 13 | 5.7 | 3.2 | 2.3 | 3.1 | 3.4 |
| Other | | | | | | |
| Ammonia, as N (350.1) | NA | NA | ND(5.1) | NA | NA | NA |
| Ammonia, as N (Water Soluble) (350.1) | NA | NA | NA | NA | NA | NA |
| Nitrate, as N (Water Soluble)(353.1-354.1) | NA | NA | ND(0.3) | NA | NA | NA |
| Total Kjeldahl Nitrogen (351.2) | NA | NA | 18 | NA | NA | NA |
| Total Organic Carbon (415.1) | NA | NA | 976 | NA | NA | NA |
| Total Organic Carbon Quad 1 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 2 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 3 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 4 (415.1) | NA | NA | NA | NA | NA | NA |

# 1994 North Airfield Soil Results

| Sample ID | 94FWN203SL | 94FWN205SL | 94FWN206SL | 94FWN207SL | 94FWN208SL | 94FWN209SL |
|---|---|---|---|---|---|---|
| Date | 9/20/94 | 9/20/94 | 9/20/94 | 9/20/94 | 9/20/94 | 9/20/94 |
| Well / Boring ID | BN20 | BN20 | BN20 | BN20 | BN20 | BN20 |
| Depth | 0 | 0 | 5 | 10 | 15 | 20 |
| Sample Type | PR | QC | PR | PR | PR | PR |
| M8100 | | | | | | |
| Diesel Range Organics | 139 | 360 | ND(4.4) | ND(4.1) | 193 | ND(5) |
| M8015 | | | | | | |
| Gasoline Range Organics | ND(1) | ND(1) | ND(1.2) | ND(1) | 196 | 21 |
| 8260 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND(5.2) | ND(5.3) | ND(6) | ND(5.1) | ND(5.4) | ND(6.1) |
| 1,1,1-Trichloroethane | ND(5.2) | ND(5.3) | ND(6) | ND(5.1) | ND(5.4) | ND(6.1) |
| 1,1,2,2-Tetrachloroethane | ND(5.2) | ND(5.3) | ND(6) | ND(5.1) | ND(5.4) | ND(6.1) |
| 1,1,2-Trichloroethane | ND(5.2) | ND(5.3) | ND(6) | ND(5.1) | ND(5.4) | ND(6.1) |
| 1,1-Dichloroethane | ND(5.2) | ND(5.3) | ND(6) | ND(5.1) | ND(5.4) | ND(6.1) |
| 1,1-Dichloroethene | ND(5.2) | ND(5.3) | ND(6) | ND(5.1) | ND(5.4) | ND(6.1) |
| 1,1-Dichloropropene | ND(5.2) | ND(5.3) | ND(6) | ND(5.1) | ND(5.4) | ND(6.1) |
| 1,2,3-Trichlorobenzene | ND(5.2) | ND(5.3) | ND(6) | ND(5.1) | ND(5.4) | ND(6.1) |
| 1,2,3-Trichloropropane | ND(5.2) | ND(5.3) | ND(6) | ND(5.1) | ND(5.4) | ND(6.1) |
| 1,2,4-Trichlorobenzene | ND(5.2) | ND(5.3) | ND(6) | ND(5.1) | ND(5.4) | ND(6.1) |
| 1,2,4-Trimethylbenzene | ND(5.2) | ND(5.3) | ND(6) | ND(5.1) | ND(5.4) | ND(6.1) |
| 1,2-Dibromo-3-chloropropane | ND(5.2) | ND(5.3) | ND(6) | ND(5.1) | ND(5.4) | ND(6.1) |
| 1,2-Dibromoethane | ND(5.2) | ND(5.3) | ND(6) | ND(5.1) | ND(5.4) | ND(6.1) |
| 1,2-Dichlorobenzene | ND(5.2) | ND(5.3) | ND(6) | ND(5.1) | ND(5.4) | ND(6.1) |
| 1,2-Dichloroethane | ND(5.2) | ND(5.3) | ND(6) | ND(5.1) | ND(5.4) | ND(6.1) |
| 1,2-Dichloropropane | ND(5.2) | ND(5.3) | ND(6) | ND(5.1) | ND(5.4) | ND(6.1) |
| 1,3,5-Trimethylbenzene | ND(5.2) | ND(5.3) | ND(6) | ND(5.1) | ND(5.4) | ND(6.1) |
| 1,3-Dichlorobenzene | ND(5.2) | ND(5.3) | ND(6) | ND(5.1) | ND(5.4) | ND(6.1) |
| 1,3-Dichloropropane | ND(5.2) | ND(5.3) | ND(6) | ND(5.1) | ND(5.4) | ND(6.1) |
| 1,4-Dichlorobenzene | ND(5.2) | ND(5.3) | ND(6) | ND(5.1) | ND(5.4) | ND(6.1) |
| 2,2-Dichloropropane | ND(5.2) | ND(5.3) | ND(6) | ND(5.1) | ND(5.4) | ND(6.1) |
| 2-Butanone | ND(10) | ND(10) | ND(12) | ND(10) | ND(11) | ND(12) |
| 2-Chlorotoluene | ND(5.2) | ND(5.3) | ND(6) | ND(5.1) | ND(5.4) | ND(6.1) |
| 4-Chlorotoluene | ND(5.2) | ND(5.3) | ND(6) | ND(5.1) | ND(5.4) | ND(6.1) |
| Acetone | ND(10) | ND(10) | ND(12) | ND(10) | ND(11) | ND(12) |
| Benzene | ND(5.2) | ND(5.3) | ND(6) | ND(5.1) | ND(5.4) | ND(6.1) |
| Bromobenzene | ND(5.2) | ND(5.3) | ND(6) | ND(5.1) | ND(5.4) | ND(6.1) |
| Bromochloromethane | ND(5.2) | ND(5.3) | ND(6) | ND(5.1) | ND(5.4) | ND(6.1) |
| Bromodichloromethane | ND(5.2) | ND(5.3) | ND(6) | ND(5.1) | ND(5.4) | ND(6.1) |
| Bromoform | ND(5.2) | ND(5.3) | ND(6) | ND(5.1) | ND(5.4) | ND(6.1) |
| Bromomethane | ND(5.2) | ND(5.3) | ND(6) | ND(5.1) | ND(5.4) | ND(6.1) |
| Carbon Tetrachloride | ND(5.2) | ND(5.3) | ND(6) | ND(5.1) | ND(5.4) | ND(6.1) |
| Chlorobenzene | ND(5.2) | ND(5.3) | ND(6) | ND(5.1) | ND(5.4) | ND(6.1) |
| Chloroethane | ND(5.2) | ND(5.3) | ND(6) | ND(5.1) | ND(5.4) | ND(6.1) |
| Chloroform | ND(5.2) | ND(5.3) | ND(6) | ND(5.1) | ND(5.4) | ND(6.1) |
| Chloromethane | ND(5.2) | ND(5.3) | ND(6) | ND(5.1) | ND(5.4) | ND(6.1) |
| Dibromochloromethane | ND(5.2) | ND(5.3) | ND(6) | ND(5.1) | ND(5.4) | ND(6.1) |
| Dibromomethane | ND(5.2) | ND(5.3) | ND(6) | ND(5.1) | ND(5.4) | ND(6.1) |
| Dichlorodifluoromethane | ND(5.2) | ND(5.3) | ND(6) | ND(5.1) | ND(5.4) | ND(6.1) |
| Ethyl benzene | ND(5.2) | ND(5.3) | ND(6) | ND(5.1) | ND(5.4) | ND(6.1) |
| Hexachlorobutadiene | ND(5.2) | ND(5.3) | ND(6) | ND(5.1) | ND(5.4) | ND(6.1) |
| Isopropylbenzene | ND(5.2) | ND(5.3) | ND(6) | ND(5.1) | ND(5.4) | ND(6.1) |
| Methylene chloride | 8.7 | 7.7 | ND(6) | ND(5.1) | 5.4 | ND(6.1) |
| Naphthalene | ND(5.2) | ND(5.3) | ND(6) | ND(5.1) | ND(5.4) | ND(6.1) |
| Styrene | ND(5.2) | ND(5.3) | ND(6) | ND(5.1) | ND(5.4) | ND(6.1) |
| Tetrachloroethene | ND(5.2) | ND(5.3) | ND(6) | ND(5.1) | ND(5.4) | ND(6.1) |
| Toluene | ND(5.2) | ND(5.3) | ND(6) | ND(5.1) | ND(5.4) | ND(6.1) |
| Trichloroethene | ND(5.2) | ND(5.3) | ND(6) | ND(5.1) | ND(5.4) | ND(6.1) |
| Trichlorofluoromethane | ND(5.2) | ND(5.3) | ND(6) | ND(5.1) | ND(5.4) | ND(6.1) |
| Vinyl chloride | ND(5.2) | ND(5.3) | ND(6) | ND(5.1) | ND(5.4) | ND(6.1) |
| cis-1,2-Dichloroethene | ND(5.2) | ND(5.3) | ND(6) | ND(5.1) | ND(5.4) | ND(6.1) |
| cis-1,3-Dichloropropene | ND(5.2) | ND(5.3) | ND(6) | ND(5.1) | ND(5.4) | ND(6.1) |
| m & p-Xylene | ND(5.2) | ND(5.3) | ND(6) | ND(5.1) | ND(5.4) | ND(6.1) |
| n-Butylbenzene | ND(5.2) | ND(5.3) | ND(6) | ND(5.1) | ND(5.4) | ND(6.1) |
| n-Propylbenzene | ND(5.2) | ND(5.3) | ND(6) | ND(5.1) | ND(5.4) | ND(6.1) |
| o-Xylene | ND(5.2) | ND(5.3) | ND(6) | ND(5.1) | ND(5.4) | ND(6.1) |
| p-Isopropyltoluene | ND(5.2) | ND(5.3) | ND(6) | ND(5.1) | ND(5.4) | ND(6.1) |
| sec-Butylbenzene | ND(5.2) | ND(5.3) | ND(6) | ND(5.1) | ND(5.4) | ND(6.1) |
| tert-Butylbenzene | ND(5.2) | ND(5.3) | ND(6) | ND(5.1) | ND(5.4) | ND(6.1) |
| trans-1,2-Dichloroethene | ND(5.2) | ND(5.3) | ND(6) | ND(5.1) | ND(5.4) | ND(6.1) |

# 1994 North Airfield Soil Results

| Sample ID | 94FWN203SL | 94FWN205SL | 94FWN206SL | 94FWN207SL | 94FWN208SL | 94FWN209SL |
|---|---|---|---|---|---|---|
| Date | 9/20/94 | 9/20/94 | 9/20/94 | 9/20/94 | 9/20/94 | 9/20/94 |
| Well / Boring ID | BN20 | BN20 | BN20 | BN20 | BN20 | BN20 |
| Depth | 0 | 0 | 5 | 10 | 15 | 20 |
| Sample Type | PR | QC | PR | PR | PR | PR |
| trans-1,3-Dichloropropene | ND(5.2) | ND(5.3) | ND(6) | ND(5.1) | ND(5.4) | ND(6.1) |
| EPA 7421 | | | | | | |
| Lead (GFAA) | 22 | 19 | 7.3 | 2.6 | 4.4 | 3.6 |
| Other | | | | | | |
| Ammonia, as N (350.1) | 22 | 35 | NA | NA | NA | NA |
| Ammonia, as N (Water Soluble) (350.1) | NA | NA | NA | NA | NA | NA |
| Nitrate, as N (Water Soluble)(353.1-354.1) | 0.5 | 0.9 | NA | NA | NA | NA |
| Total Kjeldahl Nitrogen (351.2) | 2570 | 1090 | NA | NA | NA | NA |
| Total Organic Carbon (415.1) | 3210 | 4390 | NA | NA | NA | NA |
| Total Organic Carbon Quad 1 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 2 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 3 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 4 (415.1) | NA | NA | NA | NA | NA | NA |

# 1994 North Airfield Soil Results

| Sample ID | 94FWN210SL | 94FWN211SL | 94FWN212SL | 94FWN213SL | 94FWN214SL | 94FWN215SL |
|---|---|---|---|---|---|---|
| Date | 9/20/94 | 9/21/94 | 9/21/94 | 9/21/94 | 9/21/94 | 9/21/94 |
| Well / Boring ID | BN20 | BN22 | BN22 | BN22 | BN22 | BN21 |
| Depth | 25 | 0 | 5 | 10 | 15 | 0 |
| Sample Type | PR | PR | PR | PR | PR | PR |
| M8100 | | | | | | |
| Diesel Range Organics | ND(4.7) | 23 | ND(4.2) | ND(4.2) | 74 | 1200 |
| M8015 | | | | | | |
| Gasoline Range Organics | ND(1.2) | ND(1) | ND(1.1) | ND(1) | 50 | ND(1.1) |
| 8260 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND(6) | ND(5.2) | ND(5.4) | ND(5.3) | ND(5.8) | ND(5.6) |
| 1,1,1-Trichloroethane | ND(6) | ND(5.2) | ND(5.4) | ND(5.3) | ND(5.8) | ND(5.6) |
| 1,1,2,2-Tetrachloroethane | ND(6) | ND(5.2) | ND(5.4) | ND(5.3) | ND(5.8) | ND(5.6) |
| 1,1,2-Trichloroethane | ND(6) | ND(5.2) | ND(5.4) | ND(5.3) | ND(5.8) | ND(5.6) |
| 1,1-Dichloroethane | ND(6) | ND(5.2) | ND(5.4) | ND(5.3) | ND(5.8) | ND(5.6) |
| 1,1-Dichloroethene | ND(6) | ND(5.2) | ND(5.4) | ND(5.3) | ND(5.8) | ND(5.6) |
| 1,1-Dichloropropene | ND(6) | ND(5.2) | ND(5.4) | ND(5.3) | ND(5.8) | ND(5.6) |
| 1,2,3-Trichlorobenzene | ND(6) | ND(5.2) | ND(5.4) | ND(5.3) | ND(5.8) | ND(5.6) |
| 1,2,3-Trichloropropane | ND(6) | ND(5.2) | ND(5.4) | ND(5.3) | ND(5.8) | ND(5.6) |
| 1,2,4-Trichlorobenzene | ND(6) | ND(5.2) | ND(5.4) | ND(5.3) | ND(5.8) | ND(5.6) |
| 1,2,4-Trimethylbenzene | ND(6) | ND(5.2) | ND(5.4) | ND(5.3) | ND(5.8) | ND(5.6) |
| 1,2-Dibromo-3-chloropropane | ND(6) | ND(5.2) | ND(5.4) | ND(5.3) | ND(5.8) | ND(5.6) |
| 1,2-Dibromoethane | ND(6) | ND(5.2) | ND(5.4) | ND(5.3) | ND(5.8) | ND(5.6) |
| 1,2-Dichlorobenzene | ND(6) | ND(5.2) | ND(5.4) | ND(5.3) | ND(5.8) | ND(5.6) |
| 1,2-Dichloroethane | ND(6) | ND(5.2) | ND(5.4) | ND(5.3) | ND(5.8) | ND(5.6) |
| 1,2-Dichloropropane | ND(6) | ND(5.2) | ND(5.4) | ND(5.3) | ND(5.8) | ND(5.6) |
| 1,3,5-Trimethylbenzene | ND(6) | ND(5.2) | ND(5.4) | ND(5.3) | ND(5.8) | ND(5.6) |
| 1,3-Dichlorobenzene | ND(6) | ND(5.2) | ND(5.4) | ND(5.3) | ND(5.8) | ND(5.6) |
| 1,3-Dichloropropane | ND(6) | ND(5.2) | ND(5.4) | ND(5.3) | ND(5.8) | ND(5.6) |
| 1,4-Dichlorobenzene | ND(6) | ND(5.2) | ND(5.4) | ND(5.3) | ND(5.8) | ND(5.6) |
| 2,2-Dichloropropane | ND(6) | ND(5.2) | ND(5.4) | ND(5.3) | ND(5.8) | ND(5.6) |
| 2-Butanone | ND(12) | ND(10) | ND(11) | ND(10) | ND(12) | ND(11) |
| 2-Chlorotoluene | ND(6) | ND(5.2) | ND(5.4) | ND(5.3) | ND(5.8) | ND(5.6) |
| 4-Chlorotoluene | ND(6) | ND(5.2) | ND(5.4) | ND(5.3) | ND(5.8) | ND(5.6) |
| Acetone | ND(12) | ND(10) | ND(11) | ND(10) | ND(12) | 27 |
| Benzene | ND(6) | ND(5.2) | ND(5.4) | ND(5.3) | ND(5.8) | ND(5.6) |
| Bromobenzene | ND(6) | ND(5.2) | ND(5.4) | ND(5.3) | ND(5.8) | ND(5.6) |
| Bromochloromethane | ND(6) | ND(5.2) | ND(5.4) | ND(5.3) | ND(5.8) | ND(5.6) |
| Bromodichloromethane | ND(6) | ND(5.2) | ND(5.4) | ND(5.3) | ND(5.8) | ND(5.6) |
| Bromoform | ND(6) | ND(5.2) | ND(5.4) | ND(5.3) | ND(5.8) | ND(5.6) |
| Bromomethane | ND(6) | ND(5.2) | ND(5.4) | ND(5.3) | ND(5.8) | ND(5.6) |
| Carbon Tetrachloride | ND(6) | ND(5.2) | ND(5.4) | ND(5.3) | ND(5.8) | ND(5.6) |
| Chlorobenzene | ND(6) | ND(5.2) | ND(5.4) | ND(5.3) | ND(5.8) | ND(5.6) |
| Chloroethane | ND(6) | ND(5.2) | ND(5.4) | ND(5.3) | ND(5.8) | ND(5.6) |
| Chloroform | ND(6) | ND(5.2) | ND(5.4) | ND(5.3) | ND(5.8) | ND(5.6) |
| Chloromethane | ND(6) | ND(5.2) | ND(5.4) | ND(5.3) | ND(5.8) | ND(5.6) |
| Dibromochloromethane | ND(6) | ND(5.2) | ND(5.4) | ND(5.3) | ND(5.8) | ND(5.6) |
| Dibromomethane | ND(6) | ND(5.2) | ND(5.4) | ND(5.3) | ND(5.8) | ND(5.6) |
| Dichlorodifluoromethane | ND(6) | ND(5.2) | ND(5.4) | ND(5.3) | ND(5.8) | ND(5.6) |
| Ethyl benzene | ND(6) | ND(5.2) | ND(5.4) | ND(5.3) | ND(5.8) | ND(5.6) |
| Hexachlorobutadiene | ND(6) | ND(5.2) | ND(5.4) | ND(5.3) | ND(5.8) | ND(5.6) |
| Isopropylbenzene | ND(6) | ND(5.2) | ND(5.4) | ND(5.3) | ND(5.8) | ND(5.6) |
| Methylene chloride | 7.2 | 14 | 12 | 7.6 | 8.2 | 22 |
| Naphthalene | ND(6) | ND(5.2) | ND(5.4) | ND(5.3) | ND(5.8) | ND(5.6) |
| Styrene | ND(6) | ND(5.2) | ND(5.4) | ND(5.3) | ND(5.8) | ND(5.6) |
| Tetrachloroethene | ND(6) | ND(5.2) | ND(5.4) | ND(5.3) | ND(5.8) | ND(5.6) |
| Toluene | ND(6) | ND(5.2) | ND(5.4) | ND(5.3) | ND(5.8) | ND(5.6) |
| Trichloroethene | ND(6) | ND(5.2) | ND(5.4) | ND(5.3) | ND(5.8) | ND(5.6) |
| Trichlorofluoromethane | ND(6) | ND(5.2) | ND(5.4) | ND(5.3) | ND(5.8) | ND(5.6) |
| Vinyl chloride | ND(6) | ND(5.2) | ND(5.4) | ND(5.3) | ND(5.8) | ND(5.6) |
| cis-1,2-Dichloroethene | ND(6) | ND(5.2) | ND(5.4) | ND(5.3) | ND(5.8) | ND(5.6) |
| cis-1,3-Dichloropropene | ND(6) | ND(5.2) | ND(5.4) | ND(5.3) | ND(5.8) | ND(5.6) |
| m & p-Xylene | ND(6) | ND(5.2) | ND(5.4) | ND(5.3) | ND(5.8) | ND(5.6) |
| n-Butylbenzene | ND(6) | ND(5.2) | ND(5.4) | ND(5.3) | ND(5.8) | ND(5.6) |
| n-Propylbenzene | ND(6) | ND(5.2) | ND(5.4) | ND(5.3) | ND(5.8) | ND(5.6) |
| o-Xylene | ND(6) | ND(5.2) | ND(5.4) | ND(5.3) | ND(5.8) | ND(5.6) |
| p-Isopropyltoluene | ND(6) | ND(5.2) | ND(5.4) | ND(5.3) | ND(5.8) | ND(5.6) |
| sec-Butylbenzene | ND(6) | ND(5.2) | ND(5.4) | ND(5.3) | ND(5.8) | ND(5.6) |
| tert-Butylbenzene | ND(6) | ND(5.2) | ND(5.4) | ND(5.3) | ND(5.8) | ND(5.6) |
| trans-1,2-Dichloroethene | ND(6) | ND(5.2) | ND(5.4) | ND(5.3) | ND(5.8) | ND(5.6) |

# 1994 North Airfield Soil Results

| Sample ID | 94FWN210SL | 94FWN211SL | 94FWN212SL | 94FWN213SL | 94FWN214SL | 94FWN215SL |
|---|---|---|---|---|---|---|
| Date | 9/20/94 | 9/21/94 | 9/21/94 | 9/21/94 | 9/21/94 | 9/21/94 |
| Well / Boring ID | BN20 | BN22 | BN22 | BN22 | BN22 | BN21 |
| Depth | 25 | 0 | 5 | 10 | 15 | 0 |
| Sample Type | PR | PR | PR | PR | PR | PR |
| trans-1,3-Dichloropropene | ND(6) | ND(5.2) | ND(5.4) | ND(5.3) | ND(5.8) | ND(5.6) |
| EPA 7421 | | | | | | |
| Lead (GFAA) | 2.7 | 12 | 6.2 | 4.9 | 3.7 | 11 |
| Other | | | | | | |
| Ammonia, as N (350.1) | NA | NA | NA | NA | ND(5.8) | NA |
| Ammonia, as N (Water Soluble) (350.1) | NA | NA | NA | NA | NA | NA |
| Nitrate, as N (Water Soluble)(353.1-354.1) | NA | NA | NA | NA | ND(0.3) | NA |
| Total Kjeldahl Nitrogen (351.2) | NA | NA | NA | NA | 40 | NA |
| Total Organic Carbon (415.1) | NA | NA | NA | NA | 1270 | NA |
| Total Organic Carbon Quad 1 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 2 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 3 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 4 (415.1) | NA | NA | NA | NA | NA | NA |

# 1994 North Airfield Soil Results

| Sample ID | 94FWN216SL | 94FWN217SL | 94FWN218SL | 94FWN219SL | 94FWN220SL | 94FWN221SL |
|---|---|---|---|---|---|---|
| Date | 9/21/94 | 9/21/94 | 9/21/94 | 9/21/94 | 9/21/94 | 9/21/94 |
| Well / Boring ID | BN21 | BN21 | BN21 | BN23 | BN23 | BN23 |
| Depth | 5 | 10 | 15 | 0 | 5 | 10 |
| Sample Type | PR | PR | PR | PR | PR | PR |
| M8100 | | | | | | |
| Diesel Range Organics | ND(4.6) | ND(4.1) | 1370 | 41 | 4.5 | ND(4.1) |
| M8015 | | | | | | |
| Gasoline Range Organics | ND(1.1) | 2.7 | 442 | ND(1) | ND(1.1) | ND(1) |
| 8260 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND(5.7) | ND(5.7) | ND(55) | ND(5.1) | ND(5.5) | ND(5.1) |
| 1,1,1-Trichloroethane | ND(5.7) | ND(5.7) | ND(55) | ND(5.1) | ND(5.5) | ND(5.1) |
| 1,1,2,2-Tetrachloroethane | ND(5.7) | ND(5.7) | ND(55) | ND(5.1) | ND(5.5) | ND(5.1) |
| 1,1,2-Trichloroethane | ND(5.7) | ND(5.7) | ND(55) | ND(5.1) | ND(5.5) | ND(5.1) |
| 1,1-Dichloroethane | ND(5.7) | ND(5.7) | ND(55) | ND(5.1) | ND(5.5) | ND(5.1) |
| 1,1-Dichloroethene | ND(5.7) | ND(5.7) | ND(55) | ND(5.1) | ND(5.5) | ND(5.1) |
| 1,1-Dichloropropene | ND(5.7) | ND(5.7) | ND(55) | ND(5.1) | ND(5.5) | ND(5.1) |
| 1,2,3-Trichlorobenzene | ND(5.7) | ND(5.7) | ND(55) | ND(5.1) | ND(5.5) | ND(5.1) |
| 1,2,3-Trichloropropane | ND(5.7) | ND(5.7) | ND(55) | ND(5.1) | ND(5.5) | ND(5.1) |
| 1,2,4-Trichlorobenzene | ND(5.7) | ND(5.7) | ND(55) | ND(5.1) | ND(5.5) | ND(5.1) |
| 1,2,4-Trimethylbenzene | ND(5.7) | ND(5.7) | 629 | ND(5.1) | ND(5.5) | ND(5.1) |
| 1,2-Dibromo-3-chloropropane | ND(5.7) | ND(5.7) | ND(55) | ND(5.1) | ND(5.5) | ND(5.1) |
| 1,2-Dibromoethane | ND(5.7) | ND(5.7) | ND(55) | ND(5.1) | ND(5.5) | ND(5.1) |
| 1,2-Dichlorobenzene | ND(5.7) | ND(5.7) | ND(55) | ND(5.1) | ND(5.5) | ND(5.1) |
| 1,2-Dichloroethane | ND(5.7) | ND(5.7) | ND(55) | ND(5.1) | ND(5.5) | ND(5.1) |
| 1,2-Dichloropropane | ND(5.7) | ND(5.7) | ND(55) | ND(5.1) | ND(5.5) | ND(5.1) |
| 1,3,5-Trimethylbenzene | ND(5.7) | ND(5.7) | 2430 | ND(5.1) | ND(5.5) | ND(5.1) |
| 1,3-Dichlorobenzene | ND(5.7) | ND(5.7) | ND(55) | ND(5.1) | ND(5.5) | ND(5.1) |
| 1,3-Dichloropropane | ND(5.7) | ND(5.7) | ND(55) | ND(5.1) | ND(5.5) | ND(5.1) |
| 1,4-Dichlorobenzene | ND(5.7) | ND(5.7) | ND(55) | ND(5.1) | ND(5.5) | ND(5.1) |
| 2,2-Dichloropropane | ND(5.7) | ND(5.7) | ND(55) | ND(5.1) | ND(5.5) | ND(5.1) |
| 2-Butanone | ND(11) | ND(11) | ND(110) | ND(10) | ND(11) | ND(10) |
| 2-Chlorotoluene | ND(5.7) | ND(5.7) | ND(55) | ND(5.1) | ND(5.5) | ND(5.1) |
| 4-Chlorotoluene | ND(5.7) | ND(5.7) | ND(55) | ND(5.1) | ND(5.5) | ND(5.1) |
| Acetone | ND(11) | ND(11) | ND(110) | 22 | ND(11) | ND(10) |
| Benzene | ND(5.7) | ND(5.7) | ND(55) | ND(5.1) | ND(5.5) | ND(5.1) |
| Bromobenzene | ND(5.7) | ND(5.7) | ND(55) | ND(5.1) | ND(5.5) | ND(5.1) |
| Bromochloromethane | ND(5.7) | ND(5.7) | ND(55) | ND(5.1) | ND(5.5) | ND(5.1) |
| Bromodichloromethane | ND(5.7) | ND(5.7) | ND(55) | ND(5.1) | ND(5.5) | ND(5.1) |
| Bromoform | ND(5.7) | ND(5.7) | ND(55) | ND(5.1) | ND(5.5) | ND(5.1) |
| Bromomethane | ND(5.7) | ND(5.7) | ND(55) | ND(5.1) | ND(5.5) | ND(5.1) |
| Carbon Tetrachloride | ND(5.7) | ND(5.7) | ND(55) | ND(5.1) | ND(5.5) | ND(5.1) |
| Chlorobenzene | ND(5.7) | ND(5.7) | ND(55) | ND(5.1) | ND(5.5) | ND(5.1) |
| Chloroethane | ND(5.7) | ND(5.7) | ND(55) | ND(5.1) | ND(5.5) | ND(5.1) |
| Chloroform | ND(5.7) | ND(5.7) | ND(55) | ND(5.1) | ND(5.5) | ND(5.1) |
| Chloromethane | ND(5.7) | ND(5.7) | ND(55) | ND(5.1) | ND(5.5) | ND(5.1) |
| Dibromochloromethane | ND(5.7) | ND(5.7) | ND(55) | ND(5.1) | ND(5.5) | ND(5.1) |
| Dibromomethane | ND(5.7) | ND(5.7) | ND(55) | ND(5.1) | ND(5.5) | ND(5.1) |
| Dichlorodifluoromethane | ND(5.7) | ND(5.7) | ND(55) | ND(5.1) | ND(5.5) | ND(5.1) |
| Ethyl benzene | ND(5.7) | ND(5.7) | ND(55) | ND(5.1) | ND(5.5) | ND(5.1) |
| Hexachlorobutadiene | ND(5.7) | ND(5.7) | ND(55) | ND(5.1) | ND(5.5) | ND(5.1) |
| Isopropylbenzene | ND(5.7) | ND(5.7) | ND(55) | ND(5.1) | ND(5.5) | ND(5.1) |
| Methylene chloride | 12 | 10 | 98 | 17 | 11 | 7 |
| Naphthalene | ND(5.7) | ND(5.7) | 143 | ND(5.1) | ND(5.5) | ND(5.1) |
| Styrene | ND(5.7) | ND(5.7) | ND(55) | ND(5.1) | ND(5.5) | ND(5.1) |
| Tetrachloroethene | ND(5.7) | ND(5.7) | ND(55) | ND(5.1) | ND(5.5) | ND(5.1) |
| Toluene | ND(5.7) | ND(5.7) | ND(55) | ND(5.1) | ND(5.5) | ND(5.1) |
| Trichloroethene | ND(5.7) | ND(5.7) | ND(55) | ND(5.1) | ND(5.5) | ND(5.1) |
| Trichlorofluoromethane | ND(5.7) | ND(5.7) | ND(55) | ND(5.1) | ND(5.5) | ND(5.1) |
| Vinyl chloride | ND(5.7) | ND(5.7) | ND(55) | ND(5.1) | ND(5.5) | ND(5.1) |
| cis-1,2-Dichloroethene | ND(5.7) | ND(5.7) | ND(55) | ND(5.1) | ND(5.5) | ND(5.1) |
| cis-1,3-Dichloropropene | ND(5.7) | ND(5.7) | ND(55) | ND(5.1) | ND(5.5) | ND(5.1) |
| m & p-Xylene | ND(5.7) | ND(5.7) | ND(55) | ND(5.1) | ND(5.5) | ND(5.1) |
| n-Butylbenzene | ND(5.7) | ND(5.7) | ND(55) | ND(5.1) | ND(5.5) | ND(5.1) |
| n-Propylbenzene | ND(5.7) | ND(5.7) | ND(55) | ND(5.1) | ND(5.5) | ND(5.1) |
| o-Xylene | ND(5.7) | ND(5.7) | ND(55) | ND(5.1) | ND(5.5) | ND(5.1) |
| p-Isopropyltoluene | ND(5.7) | ND(5.7) | ND(55) | ND(5.1) | ND(5.5) | ND(5.1) |
| sec-Butylbenzene | ND(5.7) | ND(5.7) | ND(55) | ND(5.1) | ND(5.5) | ND(5.1) |
| tert-Butylbenzene | ND(5.7) | ND(5.7) | ND(55) | ND(5.1) | ND(5.5) | ND(5.1) |
| trans-1,2-Dichloroethene | ND(5.7) | ND(5.7) | ND(55) | ND(5.1) | ND(5.5) | ND(5.1) |

# 1994 North Airfield Soil Results

| Sample ID | 94FWN216SL | 94FWN217SL | 94FWN218SL | 94FWN219SL | 94FWN220SL | 94FWN221SL |
|---|---|---|---|---|---|---|
| Date | 9/21/94 | 9/21/94 | 9/21/94 | 9/21/94 | 9/21/94 | 9/21/94 |
| Well / Boring ID | BN21 | BN21 | BN21 | BN23 | BN23 | BN23 |
| Depth | 5 | 10 | 15 | 0 | 5 | 10 |
| Sample Type | PR | PR | PR | PR | PR | PR |
| trans-1,3-Dichloropropene | ND(5.7) | ND(5.7) | ND(55) | ND(5.1) | ND(5.5) | ND(5.1) |
| EPA 7421 | | | | | | |
| Lead (GFAA) | 6.4 | 6.2 | 3.8 | 48 | 7 | 3.5 |
| Other | | | | | | |
| Ammonia, as N (350.1) | 14 | NA | NA | NA | NA | NA |
| Ammonia, as N (Water Soluble) (350.1) | NA | NA | NA | NA | NA | NA |
| Nitrate, as N (Water Soluble)(353.1-354.1) | 2.3 | NA | NA | NA | NA | NA |
| Total Kjeldahl Nitrogen (351.2) | 256 | NA | NA | NA | NA | NA |
| Total Organic Carbon (415.1) | 3260 | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 1 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 2 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 3 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 4 (415.1) | NA | NA | NA | NA | NA | NA |

# 1994 North Airfield Soil Results

| Sample ID | 94FWN222SL | 94FWN224SL | 94FWN225SL | 94FWN226SL | 94FWN227SL | 94FWN228SL |
|---|---|---|---|---|---|---|
| Date | 9/21/94 | 9/21/94 | 9/21/94 | 9/21/94 | 9/21/94 | 9/21/94 |
| Well / Boring ID | BN23 | BN23 | BN25 | BN25 | BN25 | BN25 |
| Depth | 15 | 15 | 0 | 5 | 10 | 15 |
| Sample Type | PR | PR | PR | PR | PR | PR |
| M8100 | | | | | | |
| Diesel Range Organics | ND(4.1) | ND(4.1) | 2850 | 3520 | 2060 | 7180 |
| M8015 | | | | | | |
| Gasoline Range Organics | ND(1) | ND(1) | 727 | 1340 | 225 | 1600 |
| 8260 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND(5.1) | ND(5.2) | ND(51) | ND(56) | ND(51) | ND(5.3) |
| 1,1,1-Trichloroethane | ND(5.1) | ND(5.2) | ND(51) | ND(56) | ND(51) | ND(5.3) |
| 1,1,2,2-Tetrachloroethane | ND(5.1) | ND(5.2) | ND(51) | ND(56) | ND(51) | ND(5.3) |
| 1,1,2-Trichloroethane | ND(5.1) | ND(5.2) | ND(51) | ND(56) | ND(51) | ND(5.3) |
| 1,1-Dichloroethane | ND(5.1) | ND(5.2) | ND(51) | ND(56) | ND(51) | ND(5.3) |
| 1,1-Dichloroethene | ND(5.1) | ND(5.2) | ND(51) | ND(56) | ND(51) | ND(5.3) |
| 1,1-Dichloropropene | ND(5.1) | ND(5.2) | ND(51) | ND(56) | ND(51) | ND(5.3) |
| 1,2,3-Trichlorobenzene | ND(5.1) | ND(5.2) | ND(51) | ND(56) | ND(51) | ND(5.3) |
| 1,2,3-Trichloropropane | ND(5.1) | ND(5.2) | ND(51) | ND(56) | ND(51) | ND(5.3) |
| 1,2,4-Trichlorobenzene | ND(5.1) | ND(5.2) | ND(51) | ND(56) | ND(51) | ND(5.3) |
| 1,2,4-Trimethylbenzene | ND(5.1) | ND(5.2) | 12300 | 79200 | 16300 | 160000 |
| 1,2-Dibromo-3-chloropropane | ND(5.1) | ND(5.2) | ND(51) | ND(56) | ND(51) | ND(5.3) |
| 1,2-Dibromoethane | ND(5.1) | ND(5.2) | ND(51) | ND(56) | ND(51) | ND(5.3) |
| 1,2-Dichlorobenzene | ND(5.1) | ND(5.2) | ND(51) | ND(56) | ND(51) | ND(5.3) |
| 1,2-Dichloroethane | ND(5.1) | ND(5.2) | ND(51) | ND(56) | ND(51) | ND(5.3) |
| 1,2-Dichloropropane | ND(5.1) | ND(5.2) | ND(51) | ND(56) | ND(51) | ND(5.3) |
| 1,3,5-Trimethylbenzene | ND(5.1) | ND(5.2) | 25600 | 29000 | 5410 | 54500 |
| 1,3-Dichlorobenzene | ND(5.1) | ND(5.2) | ND(51) | ND(56) | ND(51) | ND(5.3) |
| 1,3-Dichloropropane | ND(5.1) | ND(5.2) | ND(51) | ND(56) | ND(51) | ND(5.3) |
| 1,4-Dichlorobenzene | ND(5.1) | ND(5.2) | ND(51) | ND(56) | ND(51) | ND(5.3) |
| 2,2-Dichloropropane | ND(5.1) | ND(5.2) | ND(51) | ND(56) | ND(51) | ND(5.3) |
| 2-Butanone | ND(10) | ND(10) | ND(100) | ND(110) | ND(100) | ND(11) |
| 2-Chlorotoluene | ND(5.1) | ND(5.2) | ND(51) | ND(56) | ND(51) | ND(5.3) |
| 4-Chlorotoluene | ND(5.1) | ND(5.2) | ND(51) | ND(56) | ND(51) | ND(5.3) |
| Acetone | ND(10) | ND(10) | ND(100) | ND(110) | ND(100) | ND(11) |
| Benzene | ND(5.1) | ND(5.2) | ND(51) | ND(56) | ND(51) | 2560 |
| Bromobenzene | ND(5.1) | ND(5.2) | ND(51) | ND(56) | ND(51) | ND(5.3) |
| Bromochloromethane | ND(5.1) | ND(5.2) | ND(51) | ND(56) | ND(51) | ND(5.3) |
| Bromodichloromethane | ND(5.1) | ND(5.2) | ND(51) | ND(56) | ND(51) | ND(5.3) |
| Bromoform | ND(5.1) | ND(5.2) | ND(51) | ND(56) | ND(51) | ND(5.3) |
| Bromomethane | ND(5.1) | ND(5.2) | ND(51) | ND(56) | ND(51) | ND(5.3) |
| Carbon Tetrachloride | ND(5.1) | ND(5.2) | ND(51) | ND(56) | ND(51) | ND(5.3) |
| Chlorobenzene | ND(5.1) | ND(5.2) | ND(51) | ND(56) | ND(51) | ND(5.3) |
| Chloroethane | ND(5.1) | ND(5.2) | ND(51) | ND(56) | ND(51) | ND(5.3) |
| Chloroform | ND(5.1) | ND(5.2) | ND(51) | ND(56) | ND(51) | ND(5.3) |
| Chloromethane | ND(5.1) | ND(5.2) | ND(51) | ND(56) | ND(51) | ND(5.3) |
| Dibromochloromethane | ND(5.1) | ND(5.2) | ND(51) | ND(56) | ND(51) | ND(5.3) |
| Dibromomethane | ND(5.1) | ND(5.2) | ND(51) | ND(56) | ND(51) | ND(5.3) |
| Dichlorodifluoromethane | ND(5.1) | ND(5.2) | ND(51) | ND(56) | ND(51) | ND(5.3) |
| Ethyl benzene | ND(5.1) | ND(5.2) | ND(51) | 5350 | 940 | 28800 |
| Hexachlorobutadiene | ND(5.1) | ND(5.2) | ND(51) | ND(56) | ND(51) | ND(5.3) |
| Isopropylbenzene | ND(5.1) | ND(5.2) | ND(51) | 959 | 347 | 4590 |
| Methylene chloride | 8.9 | 9.2 | 102 | 100 | 94 | ND(5.3) |
| Naphthalene | ND(5.1) | ND(5.2) | 7270 | 32300 | 7460 | 60900 |
| Styrene | ND(5.1) | ND(5.2) | ND(51) | ND(56) | ND(51) | ND(5.3) |
| Tetrachloroethene | ND(5.1) | ND(5.2) | ND(51) | ND(56) | ND(51) | ND(5.3) |
| Toluene | ND(5.1) | ND(5.2) | 77 | 2450 | 1020 | 63000 |
| Trichloroethene | ND(5.1) | ND(5.2) | ND(51) | ND(56) | ND(51) | ND(5.3) |
| Trichlorofluoromethane | ND(5.1) | ND(5.2) | ND(51) | ND(56) | ND(51) | ND(5.3) |
| Vinyl chloride | ND(5.1) | ND(5.2) | ND(51) | ND(56) | ND(51) | ND(5.3) |
| cis-1,2-Dichloroethene | ND(5.1) | ND(5.2) | ND(51) | ND(56) | ND(51) | ND(5.3) |
| cis-1,3-Dichloropropene | ND(5.1) | ND(5.2) | ND(51) | ND(56) | ND(51) | ND(5.3) |
| m & p-Xylene | ND(5.1) | ND(5.2) | 5120 | 42400 | 7250 | 150000 |
| n-Butylbenzene | ND(5.1) | ND(5.2) | ND(51) | ND(56) | ND(51) | ND(5.3) |
| n-Propylbenzene | ND(5.1) | ND(5.2) | ND(51) | 5350 | 1020 | 16000 |
| o-Xylene | ND(5.1) | ND(5.2) | 3990 | 19000 | 3370 | 57700 |
| p-Isopropyltoluene | ND(5.1) | ND(5.2) | 542 | 1780 | 940 | 5770 |
| sec-Butylbenzene | ND(5.1) | ND(5.2) | ND(51) | 814 | 408 | 3630 |
| tert-Butylbenzene | ND(5.1) | ND(5.2) | ND(51) | ND(56) | ND(51) | ND(5.3) |
| trans-1,2-Dichloroethene | ND(5.1) | ND(5.2) | ND(51) | ND(56) | ND(51) | ND(5.3) |

# 1994 North Airfield Soil Results

| Sample ID | 94FWN222SL | 94FWN224SL | 94FWN225SL | 94FWN226SL | 94FWN227SL | 94FWN228SL |
|---|---|---|---|---|---|---|
| Date | 9/21/94 | 9/21/94 | 9/21/94 | 9/21/94 | 9/21/94 | 9/21/94 |
| Well / Boring ID | BN23 | BN23 | BN25 | BN25 | BN25 | BN25 |
| Depth | 15 | 15 | 0 | 5 | 10 | 15 |
| Sample Type | PR | PR | PR | PR | PR | PR |
| trans-1,3-Dichloropropene | ND(5.1) | ND(5.2) | ND(51) | ND(56) | ND(51) | ND(5.3) |
| EPA 7421 | | | | | | |
| Lead (GFAA) | 2.6 | 2.5 | 30 | 12 | 3.8 | 7.7 |
| Other | | | | | | |
| Ammonia, as N (350.1) | ND(5.1) | ND(5.1) | 9.7 | NA | NA | NA |
| Ammonia, as N (Water Soluble) (350.1) | NA | NA | NA | NA | NA | NA |
| Nitrate, as N (Water Soluble)(353.1-354.1) | ND(0.3) | ND(0.3) | 0.3 | NA | NA | NA |
| Total Kjeldahl Nitrogen (351.2) | 33 | 34 | 306 | NA | NA | NA |
| Total Organic Carbon (415.1) | 727 | 514 | 15600 | NA | NA | NA |
| Total Organic Carbon Quad 1 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 2 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 3 (415.1) | NA | NA | NA | NA | NA | NA |
| Total Organic Carbon Quad 4 (415.1) | NA | NA | NA | NA | NA | NA |

# 1994 North Airfield Soil Results

| Sample ID | 94FWN229SL | 94FWN230SL | 94FWN231SL | 94FWN232SL | 94FWN234SL | |
|---|---|---|---|---|---|---|
| Date | 9/21/94 | 9/21/94 | 9/21/94 | 9/21/94 | 9/21/94 | |
| Well / Boring ID | BN24 | BN24 | BN24 | BN24 | BN24 | |
| Depth | 0 | 5 | 10 | 15 | 15 | |
| Sample Type | PR | PR | PR | PR | PR | |
| M8100 | | | | | | |
| Diesel Range Organics | 22 | 4680 | 2480 | 2070 | 2760 | |
| M8015 | | | | | | |
| Gasoline Range Organics | ND(1) | 195 | 174 | 1320 | 811 | |
| 8260 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND(5.2) | ND(61) | ND(51) | ND(51) | ND(56) | |
| 1,1,1-Trichloroethane | ND(5.2) | ND(61) | ND(51) | ND(51) | ND(56) | |
| 1,1,2,2-Tetrachloroethane | ND(5.2) | ND(61) | ND(51) | ND(51) | ND(56) | |
| 1,1,2-Trichloroethane | ND(5.2) | ND(61) | ND(51) | ND(51) | ND(56) | |
| 1,1-Dichloroethane | ND(5.2) | ND(61) | ND(51) | ND(51) | ND(56) | |
| 1,1-Dichloroethene | ND(5.2) | ND(61) | ND(51) | ND(51) | ND(56) | |
| 1,1-Dichloropropene | ND(5.2) | ND(61) | ND(51) | ND(51) | ND(56) | |
| 1,2,3-Trichlorobenzene | ND(5.2) | ND(61) | ND(51) | ND(51) | ND(56) | |
| 1,2,3-Trichloropropane | ND(5.2) | ND(61) | ND(51) | ND(51) | ND(56) | |
| 1,2,4-Trichlorobenzene | ND(5.2) | ND(61) | ND(51) | ND(51) | ND(56) | |
| 1,2,4-Trimethylbenzene | ND(5.2) | 5610 | 14300 | 52900 | 36000 | |
| 1,2-Dibromo-3-chloropropane | ND(5.2) | ND(61) | ND(51) | ND(51) | ND(56) | |
| 1,2-Dibromoethane | ND(5.2) | ND(61) | ND(51) | ND(51) | ND(56) | |
| 1,2-Dichlorobenzene | ND(5.2) | ND(61) | ND(51) | ND(51) | ND(56) | |
| 1,2-Dichloroethane | ND(5.2) | ND(61) | ND(51) | ND(51) | ND(56) | |
| 1,2-Dichloropropane | ND(5.2) | ND(61) | ND(51) | ND(51) | ND(56) | |
| 1,3,5-Trimethylbenzene | ND(5.2) | 5000 | 5010 | 14200 | 10100 | |
| 1,3-Dichlorobenzene | ND(5.2) | ND(61) | ND(51) | ND(51) | ND(56) | |
| 1,3-Dichloropropane | ND(5.2) | ND(61) | ND(51) | ND(51) | ND(56) | |
| 1,4-Dichlorobenzene | ND(5.2) | ND(61) | ND(51) | ND(51) | ND(56) | |
| 2,2-Dichloropropane | ND(5.2) | ND(61) | ND(51) | ND(51) | ND(56) | |
| 2-Butanone | ND(10) | ND(120) | ND(100) | ND(100) | ND(110) | |
| 2-Chlorotoluene | ND(5.2) | ND(61) | ND(51) | ND(51) | ND(56) | |
| 4-Chlorotoluene | ND(5.2) | ND(61) | ND(51) | ND(51) | ND(56) | |
| Acetone | ND(10) | ND(120) | ND(100) | ND(100) | ND(110) | |
| Benzene | ND(5.2) | ND(61) | ND(51) | 336 | ND(56) | |
| Bromobenzene | ND(5.2) | ND(61) | ND(51) | ND(51) | ND(56) | |
| Bromochloromethane | ND(5.2) | ND(61) | ND(51) | ND(51) | ND(56) | |
| Bromodichloromethane | ND(5.2) | ND(61) | ND(51) | ND(51) | ND(56) | |
| Bromoform | ND(5.2) | ND(61) | ND(51) | ND(51) | ND(56) | |
| Bromomethane | ND(5.2) | ND(61) | ND(51) | ND(51) | ND(56) | |
| Carbon Tetrachloride | ND(5.2) | ND(61) | ND(51) | ND(51) | ND(56) | |
| Chlorobenzene | ND(5.2) | ND(61) | ND(51) | ND(51) | ND(56) | |
| Chloroethane | ND(5.2) | ND(61) | ND(51) | ND(51) | ND(56) | |
| Chloroform | ND(5.2) | ND(61) | ND(51) | ND(51) | ND(56) | |
| Chloromethane | ND(5.2) | ND(61) | ND(51) | ND(51) | ND(56) | |
| Dibromochloromethane | ND(5.2) | ND(61) | ND(51) | ND(51) | ND(56) | |
| Dibromomethane | ND(5.2) | ND(61) | ND(51) | ND(51) | ND(56) | |
| Dichlorodifluoromethane | ND(5.2) | ND(61) | ND(51) | ND(51) | ND(56) | |
| Ethyl benzene | ND(5.2) | 488 | 123 | 6100 | 1020 | |
| Hexachlorobutadiene | ND(5.2) | ND(61) | ND(51) | ND(51) | ND(56) | |
| Isopropylbenzene | ND(5.2) | 146 | ND(51) | 1930 | 462 | |
| Methylene chloride | 6 | 100 | 92 | ND(51) | 110 | |
| Naphthalene | ND(5.2) | 5000 | 8080 | 18300 | 18000 | |
| Styrene | ND(5.2) | ND(61) | ND(51) | ND(51) | ND(56) | |
| Tetrachloroethene | ND(5.2) | ND(61) | ND(51) | ND(51) | ND(56) | |
| Toluene | ND(5.2) | 488 | 327 | 11200 | 1130 | |
| Trichloroethene | ND(5.2) | ND(61) | ND(51) | ND(51) | ND(56) | |
| Trichlorofluoromethane | ND(5.2) | ND(61) | ND(51) | ND(51) | ND(56) | |
| Vinyl chloride | ND(5.2) | ND(61) | ND(51) | ND(51) | ND(56) | |
| cis-1,2-Dichloroethene | ND(5.2) | ND(61) | ND(51) | ND(51) | ND(56) | |
| cis-1,3-Dichloropropene | ND(5.2) | ND(61) | ND(51) | ND(51) | ND(56) | |
| m & p-Xylene | ND(5.2) | 4020 | 5110 | 41700 | 14600 | |
| n-Butylbenzene | ND(5.2) | ND(61) | ND(51) | ND(51) | ND(56) | |
| n-Propylbenzene | ND(5.2) | 793 | ND(51) | 4170 | 890 | |
| o-Xylene | ND(5.2) | 1710 | 1840 | 14200 | 6310 | |
| p-Isopropyltoluene | ND(5.2) | 573 | 521 | 895 | 1350 | |
| sec-Butylbenzene | ND(5.2) | ND(61) | ND(51) | 1220 | 664 | |
| tert-Butylbenzene | ND(5.2) | ND(61) | ND(51) | ND(51) | ND(56) | |
| trans-1,2-Dichloroethene | ND(5.2) | ND(61) | ND(51) | ND(51) | ND(56) | |

# 1994 North Airfield Soil Results

| Sample ID | 94FWN229SL | 94FWN230SL | 94FWN231SL | 94FWN232SL | 94FWN234SL | |
|---|---|---|---|---|---|---|
| Date | 9/21/94 | 9/21/94 | 9/21/94 | 9/21/94 | 9/21/94 | |
| Well / Boring ID | BN24 | BN24 | BN24 | BN24 | BN24 | |
| Depth | 0 | 5 | 10 | 15 | 15 | |
| Sample Type | PR | PR | PR | PR | PR | |
| trans-1,3-Dichloropropene | ND(5.2) | ND(61) | ND(51) | ND(51) | ND(56) | |
| EPA 7421 | | | | | | |
| Lead (GFAA) | 12 | 9 | 3.9 | 3.7 | 5.2 | |
| Other | | | | | | |
| Ammonia, as N (350.1) | NA | NA | NA | ND(5.2) | ND(5.1) | |
| Ammonia, as N (Water Soluble) (350.1) | NA | NA | NA | NA | NA | |
| Nitrate, as N (Water Soluble)(353.1-354.1) | NA | NA | NA | 0.4 | ND(0.3) | |
| Total Kjeldahl Nitrogen (351.2) | NA | NA | NA | ND(1) | ND(1) | |
| Total Organic Carbon (415.1) | NA | NA | NA | 2890 | 2550 | |
| Total Organic Carbon Quad 1 (415.1) | NA | NA | NA | NA | NA | |
| Total Organic Carbon Quad 2 (415.1) | NA | NA | NA | NA | NA | |
| Total Organic Carbon Quad 3 (415.1) | NA | NA | NA | NA | NA | |
| Total Organic Carbon Quad 4 (415.1) | NA | NA | NA | NA | NA | |

# 1994 North Airfield Soil Results

| Sample ID | | | | | | | |
|---|---|---|---|---|---|---|---|
| Date | | | | | | | |
| Well / Boring ID | | | | | | | |
| Depth | | | | | | | |
| Sample Type | | | | | | | |
| M8100 | | | | | | | |
| Diesel Range Organics | | | | | | | |
| M8015 | | | | | | | |
| Gasoline Range Organics | | | | | | | |
| 8260 | | | | | | | |
| 1,1,1,2-Tetrachloroethane | | | | | | | |
| 1,1,1-Trichloroethane | | | | | | | |
| 1,1,2,2-Tetrachloroethane | | | | | | | |
| 1,1,2-Trichloroethane | | | | | | | |
| 1,1-Dichloroethane | | | | | | | |
| 1,1-Dichloroethene | | | | | | | |
| 1,1-Dichloropropene | | | | | | | |
| 1,2,3-Trichlorobenzene | | | | | | | |
| 1,2,3-Trichloropropane | | | | | | | |
| 1,2,4-Trichlorobenzene | | | | | | | |
| 1,2,4-Trimethylbenzene | | | | | | | |
| 1,2-Dibromo-3-chloropropane | | | | | | | |
| 1,2-Dibromoethane | | | | | | | |
| 1,2-Dichlorobenzene | | | | | | | |
| 1,2-Dichloroethane | | | | | | | |
| 1,2-Dichloropropane | | | | | | | |
| 1,3,5-Trimethylbenzene | | | | | | | |
| 1,3-Dichlorobenzene | | | | | | | |
| 1,3-Dichloropropane | | | | | | | |
| 1,4-Dichlorobenzene | | | | | | | |
| 2,2-Dichloropropane | | | | | | | |
| 2-Butanone | | | | | | | |
| 2-Chlorotoluene | | | | | | | |
| 4-Chlorotoluene | | | | | | | |
| Acetone | | | | | | | |
| Benzene | | | | | | | |
| Bromobenzene | | | | | | | |
| Bromochloromethane | | | | | | | |
| Bromodichloromethane | | | | | | | |
| Bromoform | | | | | | | |
| Bromomethane | | | | | | | |
| Carbon Tetrachloride | | | | | | | |
| Chlorobenzene | | | | | | | |
| Chloroethane | | | | | | | |
| Chloroform | | | | | | | |
| Chloromethane | | | | | | | |
| Dibromochloromethane | | | | | | | |
| Dibromomethane | | | | | | | |
| Dichlorodifluoromethane | | | | | | | |
| Ethyl benzene | | | | | | | |
| Hexachlorobutadiene | | | | | | | |
| Isopropylbenzene | | | | | | | |
| Methylene chloride | | | | | | | |
| Naphthalene | | | | | | | |
| Styrene | | | | | | | |
| Tetrachloroethene | | | | | | | |
| Toluene | | | | | | | |
| Trichloroethene | | | | | | | |
| Trichlorofluoromethane | | | | | | | |
| Vinyl chloride | | | | | | | |
| cis-1,2-Dichloroethene | | | | | | | |
| cis-1,3-Dichloropropene | | | | | | | |
| m & p-Xylene | | | | | | | |
| n-Butylbenzene | | | | | | | |
| n-Propylbenzene | | | | | | | |
| o-Xylene | | | | | | | |
| p-Isopropyltoluene | | | | | | | |
| sec-Butylbenzene | | | | | | | |
| tert-Butylbenzene | | | | | | | |
| trans-1,2-Dichloroethene | | | | | | | |

# 1994 North Airfield Soil Results

| Sample ID | | | | | | | |
|---|---|---|---|---|---|---|---|
| Date | | | | | | | |
| Well / Boring ID | | | | | | | |
| Depth | | | | | | | |
| Sample Type | | | | | | | |
| trans-1,3-Dichloropropene | | | | | | | |
| EPA 7421 | | | | | | | |
| Lead (GFAA) | | | | | | | |
| Other | | | | | | | |
| Ammonia, as N (350.1) | | | | | | | |
| Ammonia, as N (Water Soluble) (350.1) | | | | | | | |
| Nitrate, as N (Water Soluble)(353.1-354.1) | | | | | | | |
| Total Kjeldahl Nitrogen (351.2) | | | | | | | |
| Total Organic Carbon (415.1) | | | | | | | |
| Total Organic Carbon Quad 1 (415.1) | | | | | | | |
| Total Organic Carbon Quad 2 (415.1) | | | | | | | |
| Total Organic Carbon Quad 3 (415.1) | | | | | | | |
| Total Organic Carbon Quad 4 (415.1) | | | | | | | |

# 1994 North Airfield Soil Results

| Sample ID | | | | | | | |
|---|---|---|---|---|---|---|---|
| Date | | | | | | | |
| Well / Boring ID | | | | | | | |
| Depth | | | | | | | |
| Sample Type | | | | | | | |
| M8100 | | | | | | | |
| Diesel Range Organics | | | | | | | |
| M8015 | | | | | | | |
| Gasoline Range Organics | | | | | | | |
| 8260 | | | | | | | |
| 1,1,1,2-Tetrachloroethane | | | | | | | |
| 1,1,1-Trichloroethane | | | | | | | |
| 1,1,2,2-Tetrachloroethane | | | | | | | |
| 1,1,2-Trichloroethane | | | | | | | |
| 1,1-Dichloroethane | | | | | | | |
| 1,1-Dichloroethene | | | | | | | |
| 1,1-Dichloropropene | | | | | | | |
| 1,2,3-Trichlorobenzene | | | | | | | |
| 1,2,3-Trichloropropane | | | | | | | |
| 1,2,4-Trichlorobenzene | | | | | | | |
| 1,2,4-Trimethylbenzene | | | | | | | |
| 1,2-Dibromo-3-chloropropane | | | | | | | |
| 1,2-Dibromoethane | | | | | | | |
| 1,2-Dichlorobenzene | | | | | | | |
| 1,2-Dichloroethane | | | | | | | |
| 1,2-Dichloropropane | | | | | | | |
| 1,3,5-Trimethylbenzene | | | | | | | |
| 1,3-Dichlorobenzene | | | | | | | |
| 1,3-Dichloropropane | | | | | | | |
| 1,4-Dichlorobenzene | | | | | | | |
| 2,2-Dichloropropane | | | | | | | |
| 2-Butanone | | | | | | | |
| 2-Chlorotoluene | | | | | | | |
| 4-Chlorotoluene | | | | | | | |
| Acetone | | | | | | | |
| Benzene | | | | | | | |
| Bromobenzene | | | | | | | |
| Bromochloromethane | | | | | | | |
| Bromodichloromethane | | | | | | | |
| Bromoform | | | | | | | |
| Bromomethane | | | | | | | |
| Carbon Tetrachloride | | | | | | | |
| Chlorobenzene | | | | | | | |
| Chloroethane | | | | | | | |
| Chloroform | | | | | | | |
| Chloromethane | | | | | | | |
| Dibromochloromethane | | | | | | | |
| Dibromomethane | | | | | | | |
| Dichlorodifluoromethane | | | | | | | |
| Ethyl benzene | | | | | | | |
| Hexachlorobutadiene | | | | | | | |
| Isopropylbenzene | | | | | | | |
| Methylene chloride | | | | | | | |
| Naphthalene | | | | | | | |
| Styrene | | | | | | | |
| Tetrachloroethene | | | | | | | |
| Toluene | | | | | | | |
| Trichloroethene | | | | | | | |
| Trichlorofluoromethane | | | | | | | |
| Vinyl chloride | | | | | | | |
| cis-1,2-Dichloroethene | | | | | | | |
| cis-1,3-Dichloropropene | | | | | | | |
| m & p-Xylene | | | | | | | |
| n-Butylbenzene | | | | | | | |
| n-Propylbenzene | | | | | | | |
| o-Xylene | | | | | | | |
| p-Isopropyltoluene | | | | | | | |
| sec-Butylbenzene | | | | | | | |
| tert-Butylbenzene | | | | | | | |
| trans-1,2-Dichloroethene | | | | | | | |

# 1994 North Airfield Soil Results

| Sample ID | | | | | | | |
|---|---|---|---|---|---|---|---|
| Date | | | | | | | |
| Well / Boring ID | | | | | | | |
| Depth | | | | | | | |
| Sample Type | | | | | | | |
| trans-1,3-Dichloropropene | | | | | | | |
| EPA 7421 | | | | | | | |
| Lead (GFAA) | | | | | | | |
| Other | | | | | | | |
| Ammonia, as N (350.1) | | | | | | | |
| Ammonia, as N (Water Soluble) (350.1) | | | | | | | |
| Nitrate, as N (Water Soluble)(353.1-354.1) | | | | | | | |
| Total Kjeldahl Nitrogen (351.2) | | | | | | | |
| Total Organic Carbon (415.1) | | | | | | | |
| Total Organic Carbon Quad 1 (415.1) | | | | | | | |
| Total Organic Carbon Quad 2 (415.1) | | | | | | | |
| Total Organic Carbon Quad 3 (415.1) | | | | | | | |
| Total Organic Carbon Quad 4 (415.1) | | | | | | | |

# 1994 North Airfield Soil Results

| Sample ID | | | | | | | |
|---|---|---|---|---|---|---|---|
| Date | | | | | | | |
| Well / Boring ID | | | | | | | |
| Depth | | | | | | | |
| Sample Type | | | | | | | |
| M8100 | | | | | | | |
| Diesel Range Organics | | | | | | | |
| M8015 | | | | | | | |
| Gasoline Range Organics | | | | | | | |
| 8260 | | | | | | | |
| 1,1,1,2-Tetrachloroethane | | | | | | | |
| 1,1,1-Trichloroethane | | | | | | | |
| 1,1,2,2-Tetrachloroethane | | | | | | | |
| 1,1,2-Trichloroethane | | | | | | | |
| 1,1-Dichloroethane | | | | | | | |
| 1,1-Dichloroethene | | | | | | | |
| 1,1-Dichloropropene | | | | | | | |
| 1,2,3-Trichlorobenzene | | | | | | | |
| 1,2,3-Trichloropropane | | | | | | | |
| 1,2,4-Trichlorobenzene | | | | | | | |
| 1,2,4-Trimethylbenzene | | | | | | | |
| 1,2-Dibromo-3-chloropropane | | | | | | | |
| 1,2-Dibromoethane | | | | | | | |
| 1,2-Dichlorobenzene | | | | | | | |
| 1,2-Dichloroethane | | | | | | | |
| 1,2-Dichloropropane | | | | | | | |
| 1,3,5-Trimethylbenzene | | | | | | | |
| 1,3-Dichlorobenzene | | | | | | | |
| 1,3-Dichloropropane | | | | | | | |
| 1,4-Dichlorobenzene | | | | | | | |
| 2,2-Dichloropropane | | | | | | | |
| 2-Butanone | | | | | | | |
| 2-Chlorotoluene | | | | | | | |
| 4-Chlorotoluene | | | | | | | |
| Acetone | | | | | | | |
| Benzene | | | | | | | |
| Bromobenzene | | | | | | | |
| Bromochloromethane | | | | | | | |
| Bromodichloromethane | | | | | | | |
| Bromoform | | | | | | | |
| Bromomethane | | | | | | | |
| Carbon Tetrachloride | | | | | | | |
| Chlorobenzene | | | | | | | |
| Chloroethane | | | | | | | |
| Chloroform | | | | | | | |
| Chloromethane | | | | | | | |
| Dibromochloromethane | | | | | | | |
| Dibromomethane | | | | | | | |
| Dichlorodifluoromethane | | | | | | | |
| Ethyl benzene | | | | | | | |
| Hexachlorobutadiene | | | | | | | |
| Isopropylbenzene | | | | | | | |
| Methylene chloride | | | | | | | |
| Naphthalene | | | | | | | |
| Styrene | | | | | | | |
| Tetrachloroethene | | | | | | | |
| Toluene | | | | | | | |
| Trichloroethene | | | | | | | |
| Trichlorofluoromethane | | | | | | | |
| Vinyl chloride | | | | | | | |
| cis-1,2-Dichloroethene | | | | | | | |
| cis-1,3-Dichloropropene | | | | | | | |
| m & p-Xylene | | | | | | | |
| n-Butylbenzene | | | | | | | |
| n-Propylbenzene | | | | | | | |
| o-Xylene | | | | | | | |
| p-Isopropyltoluene | | | | | | | |
| sec-Butylbenzene | | | | | | | |
| tert-Butylbenzene | | | | | | | |
| trans-1,2-Dichloroethene | | | | | | | |

# 1994 North Airfield Soil Results

| Sample ID | | | | | | | |
|---|---|---|---|---|---|---|---|
| Date | | | | | | | |
| Well / Boring ID | | | | | | | |
| Depth | | | | | | | |
| Sample Type | | | | | | | |
| trans-1,3-Dichloropropene | | | | | | | |
| EPA 7421 | | | | | | | |
| Lead (GFAA) | | | | | | | |
| Other | | | | | | | |
| Ammonia, as N (350.1) | | | | | | | |
| Ammonia, as N (Water Soluble) (350.1) | | | | | | | |
| Nitrate, as N (Water Soluble)(353.1-354.1) | | | | | | | |
| Total Kjeldahl Nitrogen (351.2) | | | | | | | |
| Total Organic Carbon (415.1) | | | | | | | |
| Total Organic Carbon Quad 1 (415.1) | | | | | | | |
| Total Organic Carbon Quad 2 (415.1) | | | | | | | |
| Total Organic Carbon Quad 3 (415.1) | | | | | | | |
| Total Organic Carbon Quad 4 (415.1) | | | | | | | |

# 1994 North Airfield Soil Results

| Sample ID | | | | | | | |
|---|---|---|---|---|---|---|---|
| Date | | | | | | | |
| Well / Boring ID | | | | | | | |
| Depth | | | | | | | |
| Sample Type | | | | | | | |
| M8100 | | | | | | | |
| Diesel Range Organics | | | | | | | |
| M8015 | | | | | | | |
| Gasoline Range Organics | | | | | | | |
| 8260 | | | | | | | |
| 1,1,1,2-Tetrachloroethane | | | | | | | |
| 1,1,1-Trichloroethane | | | | | | | |
| 1,1,2,2-Tetrachloroethane | | | | | | | |
| 1,1,2-Trichloroethane | | | | | | | |
| 1,1-Dichloroethane | | | | | | | |
| 1,1-Dichloroethene | | | | | | | |
| 1,1-Dichloropropene | | | | | | | |
| 1,2,3-Trichlorobenzene | | | | | | | |
| 1,2,3-Trichloropropane | | | | | | | |
| 1,2,4-Trichlorobenzene | | | | | | | |
| 1,2,4-Trimethylbenzene | | | | | | | |
| 1,2-Dibromo-3-chloropropane | | | | | | | |
| 1,2-Dibromoethane | | | | | | | |
| 1,2-Dichlorobenzene | | | | | | | |
| 1,2-Dichloroethane | | | | | | | |
| 1,2-Dichloropropane | | | | | | | |
| 1,3,5-Trimethylbenzene | | | | | | | |
| 1,3-Dichlorobenzene | | | | | | | |
| 1,3-Dichloropropane | | | | | | | |
| 1,4-Dichlorobenzene | | | | | | | |
| 2,2-Dichloropropane | | | | | | | |
| 2-Butanone | | | | | | | |
| 2-Chlorotoluene | | | | | | | |
| 4-Chlorotoluene | | | | | | | |
| Acetone | | | | | | | |
| Benzene | | | | | | | |
| Bromobenzene | | | | | | | |
| Bromochloromethane | | | | | | | |
| Bromodichloromethane | | | | | | | |
| Bromoform | | | | | | | |
| Bromomethane | | | | | | | |
| Carbon Tetrachloride | | | | | | | |
| Chlorobenzene | | | | | | | |
| Chloroethane | | | | | | | |
| Chloroform | | | | | | | |
| Chloromethane | | | | | | | |
| Dibromochloromethane | | | | | | | |
| Dibromomethane | | | | | | | |
| Dichlorodifluoromethane | | | | | | | |
| Ethyl benzene | | | | | | | |
| Hexachlorobutadiene | | | | | | | |
| Isopropylbenzene | | | | | | | |
| Methylene chloride | | | | | | | |
| Naphthalene | | | | | | | |
| Styrene | | | | | | | |
| Tetrachloroethene | | | | | | | |
| Toluene | | | | | | | |
| Trichloroethene | | | | | | | |
| Trichlorofluoromethane | | | | | | | |
| Vinyl chloride | | | | | | | |
| cis-1,2-Dichloroethene | | | | | | | |
| cis-1,3-Dichloropropene | | | | | | | |
| m & p-Xylene | | | | | | | |
| n-Butylbenzene | | | | | | | |
| n-Propylbenzene | | | | | | | |
| o-Xylene | | | | | | | |
| p-Isopropyltoluene | | | | | | | |
| sec-Butylbenzene | | | | | | | |
| tert-Butylbenzene | | | | | | | |
| trans-1,2-Dichloroethene | | | | | | | |

# 1994 North Airfield Soil Results

| Sample ID | | | | | | | |
|---|---|---|---|---|---|---|---|
| Date | | | | | | | |
| Well / Boring ID | | | | | | | |
| Depth | | | | | | | |
| Sample Type | | | | | | | |
| trans-1,3-Dichloropropene | | | | | | | |
| EPA 7421 | | | | | | | |
| Lead (GFAA) | | | | | | | |
| Other | | | | | | | |
| Ammonia, as N (350.1) | | | | | | | |
| Ammonia, as N (Water Soluble) (350.1) | | | | | | | |
| Nitrate, as N (Water Soluble)(353.1-354.1) | | | | | | | |
| Total Kjeldahl Nitrogen (351.2) | | | | | | | |
| Total Organic Carbon (415.1) | | | | | | | |
| Total Organic Carbon Quad 1 (415.1) | | | | | | | |
| Total Organic Carbon Quad 2 (415.1) | | | | | | | |
| Total Organic Carbon Quad 3 (415.1) | | | | | | | |
| Total Organic Carbon Quad 4 (415.1) | | | | | | | |

# 1994 North Airfield Soil Results

| | |
|---|---|
| Sample ID | |
| Date | |
| Well / Boring ID | |
| Depth | |
| Sample Type | |
| M8100 | |
| Diesel Range Organics | |
| M8015 | |
| Gasoline Range Organics | |
| 8260 | |
| 1,1,1,2-Tetrachloroethane | |
| 1,1,1-Trichloroethane | |
| 1,1,2,2-Tetrachloroethane | |
| 1,1,2-Trichloroethane | |
| 1,1-Dichloroethane | |
| 1,1-Dichloroethene | |
| 1,1-Dichloropropene | |
| 1,2,3-Trichlorobenzene | |
| 1,2,3-Trichloropropane | |
| 1,2,4-Trichlorobenzene | |
| 1,2,4-Trimethylbenzene | |
| 1,2-Dibromo-3-chloropropane | |
| 1,2-Dibromoethane | |
| 1,2-Dichlorobenzene | |
| 1,2-Dichloroethane | |
| 1,2-Dichloropropane | |
| 1,3,5-Trimethylbenzene | |
| 1,3-Dichlorobenzene | |
| 1,3-Dichloropropane | |
| 1,4-Dichlorobenzene | |
| 2,2-Dichloropropane | |
| 2-Butanone | |
| 2-Chlorotoluene | |
| 4-Chlorotoluene | |
| Acetone | |
| Benzene | |
| Bromobenzene | |
| Bromochloromethane | |
| Bromodichloromethane | |
| Bromoform | |
| Bromomethane | |
| Carbon Tetrachloride | |
| Chlorobenzene | |
| Chloroethane | |
| Chloroform | |
| Chloromethane | |
| Dibromochloromethane | |
| Dibromomethane | |
| Dichlorodifluoromethane | |
| Ethyl benzene | |
| Hexachlorobutadiene | |
| Isopropylbenzene | |
| Methylene chloride | |
| Naphthalene | |
| Styrene | |
| Tetrachloroethene | |
| Toluene | |
| Trichloroethene | |
| Trichlorofluoromethane | |
| Vinyl chloride | |
| cis-1,2-Dichloroethene | |
| cis-1,3-Dichloropropene | |
| m & p-Xylene | |
| n-Butylbenzene | |
| n-Propylbenzene | |
| o-Xylene | |
| p-Isopropyltoluene | |
| sec-Butylbenzene | |
| tert-Butylbenzene | |
| trans-1,2-Dichloroethene | |

# 1994 North Airfield Soil Results

| | |
|---|---|
| Sample ID | |
| Date | |
| Well / Boring ID | |
| Depth | |
| Sample Type | |
| trans-1,3-Dichloropropene | |
| EPA 7421 | |
| Lead (GFAA) | |
| Other | |
| Ammonia, as N (350.1) | |
| Ammonia, as N (Water Soluble) (350.1) | |
| Nitrate, as N (Water Soluble)(353.1-354.1) | |
| Total Kjeldahl Nitrogen (351.2) | |
| Total Organic Carbon (415.1) | |
| Total Organic Carbon Quad 1 (415.1) | |
| Total Organic Carbon Quad 2 (415.1) | |
| Total Organic Carbon Quad 3 (415.1) | |
| Total Organic Carbon Quad 4 (415.1) | |

**1994 Open Burning/Open Detonation Area**
**Soil and Water Results**

Source: Draft Chemical Data Report
Small Arms Range
Fort Wainwright, Alaska
U.S. Army Corps of Engineers, Alaska District
Geotechnical Branch
Materials and Instrumentation Section
October 24, 1994

**Table 1**
**Small Arms Range**
**Method 8010**
**Halogenated Volatile Organics**
**September, 1994**

| | | QA DUP | QC DUP | | | |
|---|---|---|---|---|---|---|
| LOCATION: | Site # 1 | Site # 1 | Site # 1 | Site # 2 | Site # 3 | Site # 4 |
| DATE OF SAMPLING: | 9/01/94 | 9/01/94 | 9/01/94 | 9/01/94 | 9/01/94 | 9/01/94 |
| TYPE OF SAMPLE: | soil | soil | soil | soil | soil | soil |
| FIELD SAMPLE #: 94FWAR- | 10SL | 60SL | 61SL | 11SL | 20SL | 21SL |
| TESTING LABORATORY: | ARDL | CAS | ARDL | ARDL | ARDL | ARDL |
| LABORATORY SAMPLE #: | 9869-4 | K945437-003 | 9869-12 | 9869-5 | 9869-6 | 9869-7 |
| DATE RECEIVED: | 9/03/94 | 9/07/94 | 9/03/94 | 9/03/94 | 9/03/94 | 9/03/94 |
| DATE TESTED: | 9/09/94 | 9/09/94 | 9/09/94 | 9/09/94 | 9/09/94 | 9/09/94 |
| CONCENTRATION UNITS: | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg |
| Chloromethane | ND (1.4) | ND (100) | ND (1.4) | ND (1.1) | ND (1.3) | ND (1.1) |
| Bromomethane | ND (1.5) | ND (50) | ND (1.4) | ND (1.2) | ND (1.4) | ND (1.1) |
| Vinyl chloride | ND (2.8) | ND (50) | ND (2.7) | ND (2.2) | ND (2.6) | ND (2.2) |
| Dichlorodifluormethane | ND (2.8)* | ND (100) | ND (2.7)* | ND (2.2)* | ND (2.6)* | ND (2.2)* |
| Chloroethane | ND (8.0) | ND (50) | ND (7.8) | ND (6.4) | ND (7.5) | ND (6.3) |
| Methylene chloride | ND (1.4) | ND (500) | ND (1.1) | 3.2 B | 15 B | 14 B |
| Trichlorofluoromethane | ND (1.0) | ND (50) | ND (1.0) | ND (0.83) | ND (0.97) | ND (0.81) |
| 1,1-Dichloroethene | ND (2.0) | ND (50) | ND (1.9) | ND (1.6) | ND (1.9) | ND (1.6) |
| 1,1-Dichloroethane | ND (1.6) | ND (50) | ND (1.1) | ND (0.92) | ND (1.1) | ND (0.90) |
| trans-1,2-Dichloroethene | ND (1.5) | ND (50) | ND (1.5) | ND (1.2) | ND (1.4) | ND (1.2) |
| Chloroform | ND (2.6) | ND (50) | ND (2.5) | ND (2.1) | ND (2.5) | ND (2.0) |
| 1,2-Dichloroethane | ND (1.1) | ND (50) | ND (1.1) | ND (0.91) | ND (1.1) | ND (0.89) |
| 1,1,1-Trichloroethane | ND (0.91) | ND (50) | ND (0.88) | ND (0.73) | ND (8.6) | ND (0.71) |
| Carbon Tetrachloride | ND (1.8) | ND (50) | ND (1.8) | ND (1.5) | ND (1.7) | ND (1.4) |
| Bromodichloromethane | ND (1.5) | ND (50) | ND (1.5) | ND (1.2) | ND (1.4) | ND (1.2) |
| 1,2-Dichloropropane | ND (1.2) | ND (50) | ND (1.2) | ND (0.99) | ND (1.2) | ND (0.96) |
| cis-1,3-Dichloropropene | ND (1.0) | ND (50) | ND (1.0) | ND (0.84) | ND (0.99) | ND (0.82) |
| Trichloroethylene | ND (1.8) | NR | ND (1.8) | ND (1.5) | ND (1.7) | ND (1.4) |
| Dibromochloromethane | ND (1.4) | ND (50) | ND (1.3) | ND (1.1) | ND (1.3) | ND (1.1) |
| trans-1,3-Dichloropropene | ND (5.2)* | ND (50) | ND (5.1)* | ND (4.2)* | ND (4.9)* | ND (4.1)* |
| 1,1,2-Trichloroethane | ND (1.2)* | ND (50) | ND (1.2)* | ND (0.98)* | ND (1.1)* | ND (0.95)* |
| 2-Chloroethylvinyl ether | ND (2.0) | ND (500) | ND (1.9) | ND (1.6) | ND (1.9) | ND (1.6) |
| Bromoform | ND (3.1) | ND (50) | ND (3.0) | ND (2.5) | ND (2.9) | ND (2.4) |
| Tetrachloroethene | ND (1.2) | ND (50) | ND (1.2) | ND (0.98) | ND (1.1) | ND (0.95) |
| 1,1,2,2-Tetrachloroethane | ND (1.2)* | ND (50) | ND (1.2)* | ND (.98)* | ND (1.1)* | ND (0.95)* |
| Chlorobenzene | ND (3.8) | ND (50) | ND (3.7) | ND (3.1) | ND (3.6) | ND (3.0) |
| 1,3-Dichlorobenzene | ND (4.9) | NR | ND (4.8) | ND (4.0) | ND (4.6) | ND (3.8) |
| 1,2-Dichlorobenzene | ND (2.3) | NR | ND (2.2) | ND (1.8) | ND (2.2) | ND (1.8) |
| 1,4-Dichlorobenzene | ND (3.7) | NR | ND (3.6) | ND (3.0) | ND (3.5) | ND (2.9) |
| Trichlorotrifluoroethane | NR | ND (50) | NR | NR | NR | NR |
| cis-1,2-Dichloroethene | NR | ND (50) | NR | NR | NR | NR |
| Trichloroethene | NR | ND (50) | NR | NR | NR | NR |

ARDL: Applied Research and Development, Mt. Vernon, IL.
CAS: Columbia Analytical Services, Kelso, WA.
*: Coelutes with preceding compound.
B: Analyte concentration is an estimate because this analyte was also found in the method blank.
The value in parentheses is the Method Reporting Limit (MRL).
ND: Not Detected
NR: Not Reported

**Table 1**
**Small Arms Range**
**Method 8010**
**Halogenated Volatile Organics**
**September, 1994**

| LOCATION: | Site # 5 | Site # 6 | Site # 7 | Site # 8 |
|---|---|---|---|---|
| DATE OF SAMPLING: | 9/01/94 | 9/01/94 | 9/01/94 | 9/01/94 |
| TYPE OF SAMPLE: | soil | soil | soil | soil |
| FIELD SAMPLE #: 94FWAR- | 30SL | 40SL | 41SL | 42SL |
| TESTING LABORATORY: | ARDL | ARDL | ARDL | ARDL |
| LABORATORY SAMPLE #: | 9869-8 | 9869-9 | 9869-10 | 9869-11 |
| DATE RECEIVED: | 9/03/94 | 9/03/94 | 9/03/94 | 9/03/94 |
| DATE TESTED: | 9/09/94 | 9/09/94 | 9/09/94 | 9/09/94 |
| CONCENTRATION UNITS: | ug/Kg | ug/Kg | ug/Kg | ug/Kg |
| Chloromethane | ND (1.1) | ND (1.0) | ND (0.95) | ND (1.0) |
| Bromomethane | ND (1.2) | ND (1.1) | ND (0.95) | ND (1.0) |
| Vinyl chloride | ND (2.2) | ND (2.1) | ND (1.9) | ND (2.0) |
| Dichlorodifluormethane | ND (2.2)* | ND (2.1)* | ND (1.9)* | ND (2.0)* |
| Chloroethane | ND (6.5) | ND (6.0) | ND (5.4) | ND (5.8) |
| Methylene chloride | 8.4 B | ND (0.86) | ND (0.77) | ND (0.82) |
| Trichlorofluoromethane | ND (0.84) | ND (0.78) | ND (0.70) | ND (0.74) |
| 1,1-Dichloroethene | ND (1.6) | ND (1.5) | ND (1.4) | ND (1.4) |
| 1,1-Dichloroethane | ND (0.94) | ND (0.87) | ND (0.78) | ND (0.83) |
| trans-1,2-Dichloroethene | ND (1.2) | ND (1.2) | ND (1.0) | ND (1.1) |
| Chloroform | ND (2.1) | ND (2.0) | ND (1.8) | ND (1.9) |
| 1,2-Dichloroethane | ND (0.92) | ND (0.86) | ND (0.77) | ND (0.82) |
| 1,1,1-Trichloroethane | ND (0.74) | ND (0.69) | ND (0.61) | ND (0.66) |
| Carbon Tetrachloride | ND (1.5) | ND (1.4) | ND (1.2) | ND (1.3) |
| Bromodichloromethane | ND (1.2) | ND (1.2) | ND (1.0) | ND (1.1) |
| 1,2-Dichloropropane | ND (1.0) | ND (0.93) | ND (0.83) | ND (0.89) |
| cis-1,3-Dichloropropene | ND (0.85) | ND (0.79) | ND (0.71) | ND (0.76) |
| Trichloroethylene | ND (1.5) | ND (1.4) | ND (1.2) | ND (1.3) |
| Dibromochloromethane | ND (1.1) | ND (1.0) | ND (0.94) | ND (0.90) |
| trans-1,3-Dichloropropene | ND (4.2)* | ND (4.0)* | ND (3.5)* | ND (3.8)* |
| 1,1,2-Trichloroethane | ND (0.99)* | ND (0.92)* | ND (0.82)* | ND (0.88)* |
| 2-Chloroethylvinyl ether | ND (1.6) | ND (1.5) | ND (1.4) | ND (1.4) |
| Bromoform | ND (2.5) | ND (2.3) | ND (2.1) | ND (2.2) |
| Tetrachloroethene | ND (0.99) | ND (0.92) | ND (0.82) | ND (0.88) |
| 1,1,2,2-Tetrachloroethane | ND (0.99)* | ND (0.92)* | ND (0.82)* | ND (0.88)* |
| Chlorobenzene | ND (3.1) | ND (2.9) | ND (2.6) | ND (2.8) |
| 1,3-Dichlorobenzene | ND (4.0) | ND (3.7) | ND (3.3) | ND (3.6) |
| 1,2-Dichlorobenzene | ND (1.9) | ND (1.7) | ND (1.6) | ND (1.7) |
| 1,4-Dichlorobenzene | ND (3.0) | ND (2.8) | ND (2.5) | ND (2.7) |

ARDL: Applied Research and Development, Mt. Vernon, IL.
CAS: Columbia Analytical Services, Kelso, WA.
*: Coelutes with preceding compound.
a: Result was confirmed qualitatively, using GC/MS techniques on September 14, 1994.
B: Analyte concentration is an estimate because this analyte was also found in the method blank.
The value in parentheses is the Method Reporting Limit (MRL).
ND: Not Detected

**Table 1**
**Small Arms Range**
**Method 8010**
**Halogenated Volatile Organics**
**September, 1994**

| | | QA DUP | QC DUP |
|---|---|---|---|
| LOCATION: | Site # 1 | Site # 1 | Site # 1 |
| DATE OF SAMPLING: | 9/01/94 | 9/01/94 | 9/01/94 |
| TYPE OF SAMPLE: | water | water | water |
| FIELD SAMPLE #: 94FWAR- | 10WA | 60WA | 61WA |
| TESTING LABORATORY: | ARDL | CAS | ARDL |
| LABORATORY SAMPLE #: | 9869-1 | K945437-002 | 9869-2 |
| DATE RECEIVED: | 9/03/94 | 9/07/94 | 9/03/94 |
| DATE TESTED: | 9/06/94 | 9/09/94 | 9/06/94 |
| CONCENTRATION UNITS: | ug/L | ug/L | ug/L |
| Chloromethane | ND (0.80) | ND (1) | ND (0.80) |
| Bromomethane | ND (0.44) | ND (0.5) | ND (0.44) |
| Vinyl chloride | ND (1.8) | ND (0.5) | ND (1.8) |
| Dichlorodifluormethane | ND (1.8) | ND (1) | ND (1.8) |
| Chloroethane | ND (5.2) | ND (0.5) | ND (5.2) |
| Methylene chloride | 5.5 B | ND (5) | 4.7 B |
| Trichlorofluoromethane | ND (0.73) | ND (0.5) | ND (0.73) |
| 1,1-Dichloroethene | ND (1.3) | ND (0.5) | ND (1.3) |
| 1,1-Dichloroethane | ND (0.70) | ND (0.5) | ND (0.70) |
| trans-1,2-Dichloroethene | ND (1.0) | ND (0.5) | ND (1.0) |
| Chloroform | ND (0.64) | ND (0.5) | ND (0.64) |
| 1,2-Dichloroethane | ND (0.52) | ND (0.5) | ND (0.52) |
| 1,1,1-Trichloroethane | ND (0.78) | ND (0.5) | ND (0.78) |
| Carbon Tetrachloride | ND (1.2) | ND (0.5) | ND (1.2) |
| Bromodichloromethane | ND (1.0) | ND (0.5) | ND (1.0) |
| 1,2-Dichloropropane | ND (0.53) | ND (0.5) | ND (0.53) |
| cis-1,3-Dichloropropene | ND (0.66) | ND (0.5) | ND (0.66) |
| Trichloroethylene | ND (1.2) | ND (0.5) | ND (1.2) |
| Dibromochloromethane | ND (0.90) | ND (0.5) | ND (0.90) |
| trans-1,3-Dichloropropene | ND (3.4)* | ND (0.5) | ND (3.4) |
| 1,1,2-Trichloroethane | ND (0.54)* | ND (0.5) | ND (0.54) |
| 2-Chloroethylvinyl ether | ND (1.6) | ND (5) | ND (1.6) |
| Bromoform | ND (2.0) | ND (0.5) | ND (2.0) |
| Tetrachloroethene | ND (1.2) | ND (0.5) | ND (1.2) |
| 1,1,2,2-Tetrachloroethane | ND (1.2)* | ND (0.5) | ND (1.2) |
| Chlorobenzene | ND (2.5) | ND (0.5) | ND (2.5) |
| 1,3-Dichlorobenzene | ND (3.2) | ND (1) | ND (3.2) |
| 1,2-Dichlorobenzene | ND (1.5) | ND (1) | ND (1.5) |
| 1,4-Dichlorobenzene | ND (2.4) | ND (1) | ND (2.4) |
| Trichlorotrifluoroethane | NR | 0.6 B | NR |
| cis-1,2-Dichloroethene | NR | ND (0.5) | NR |
| Trichloroethene | NR | ND (0.5) | NR |

ARDL: Applied Research and Development, Mt. Vernon, IL.
CAS: Columbia Analytical Services, Kelso, WA.
*: Coelutes with preceding compound.
B: Analyte concentration is an estimate because this analyte was also found in the method blank.
The value in parentheses is the Method Reporting Limit (MRL).
ND: Not Detected
NR: Not Reported

**Table 2**
**Small Arms Range**
**Method 8100 Modified-ADEC**
**Diesel Range Organics (DRO)**
**September, 1994**

| | | QA DUP | QC DUP | | | |
|---|---|---|---|---|---|---|
| LOCATION: | Site # 1 | Site # 1 | Site # 1 | Site # 2 | Site # 3 | Site # 4 |
| DATE OF SAMPLING: | 9/01/94 | 9/01/94 | 9/01/94 | 9/01/94 | 9/01/94 | 9/01/94 |
| TYPE OF SAMPLE: | soil | soil | soil | soil | soil | soil |
| FIELD SAMPLE #: 94FWAR- | 10SL | 60SL | 61SL | 11SL | 20SL | 21SL |
| TESTING LABORATORY: | ARDL | CAS | ARDL | ARDL | ARDL | ARDL |
| LABORATORY SAMPLE #: | 9869-4 | K945437-003 | 9869-12 | 9869-5 | 9869-6 | 9869-7 |
| DATE RECEIVED: | 9/03/94 | 9/07/94 | 9/03/94 | 9/03/94 | 9/03/94 | 9/03/94 |
| DATE TESTED: | 9/06/94 | 9/13/94 | 9/09/94 | 9/07/94 | 9/07/94 | 9/06/94 |
| CONCENTRATION UNITS: | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg |
| Diesel Range Organics | ND (6200) | 21000 | 7300 | ND (4900) | 8400 | 9500 |

ARDL: Applied Research and Development, Mt. Vernon, IL.
CAS: Columbia Analytical Services, Kelso, WA.
The value in parentheses is the Method Reporting Limit (MRL).
ND: Not Detected

**Table 2**
**Small Arms Range**
**Method 8100 Modified-ADEC**
**Diesel Range Organics (DRO)**
**September, 1994**

| LOCATION: | Site # 5 | Site # 6 | Site # 7 | Site # 8 |
|---|---|---|---|---|
| DATE OF SAMPLING: | 9/01/94 | 9/01/94 | 9/01/94 | 9/01/94 |
| TYPE OF SAMPLE: | soil | soil | soil | soil |
| FIELD SAMPLE #: 94FWAR- | 30SL | 40SL | 41SL | 42SL |
| TESTING LABORATORY: | ARDL | ARDL | ARDL | ARDL |
| LABORATORY SAMPLE #: | 9869-8 | 9869-9 | 9869-10 | 9869-11 |
| DATE RECEIVED: | 9/03/94 | 9/03/94 | 9/03/94 | 9/03/94 |
| DATE TESTED: | 9/07/94 | 9/06/94 | 9/06/94 | 9/06/94 |
| CONCENTRATION UNITS: | ug/Kg | ug/Kg | ug/Kg | ug/Kg |
| Diesel Range Organics | ND (5000) | ND (4600) | ND (4200) | 5300 |

ARDL: Applied Research and Development, Mt. Vernon, IL.
CAS: Columbia Analytical Services, Kelso, WA.
The value in parentheses is the Method Reporting Limit (MRL).
ND: Not Detected

**Table 2**
**Small Arms Range**
**Method 8100 Modified-ADEC**
**Diesel Range Organics (DRO)**
**September, 1994**

| | | QA DUP | QC DUP |
|---|---|---|---|
| LOCATION: | Site # 1 | Site # 1 | Site # 1 |
| DATE OF SAMPLING: | 9/01/94 | 9/01/94 | 9/01/94 |
| TYPE OF SAMPLE: | water | water | water |
| FIELD SAMPLE #: 94FWAR- | 10WA | 60WA | 61WA |
| TESTING LABORATORY: | ARDL | CAS | ARDL |
| LABORATORY SAMPLE #: | 9869-1 | K945437-002 | 9869-2 |
| DATE RECEIVED: | 9/03/94 | 9/07/94 | 9/03/94 |
| DATE TESTED: | 9/06/94 | 9/09-10/94 | 9/06/94 |
| CONCENTRATION UNITS: | ug/L | ug/L | ug/L |
| Diesel Range Organics | ND (100) | 71 | 190 |

ARDL: Applied Research and Development, Mt. Vernon, IL.
CAS: Columbia Analytical Services, Kelso, WA.
The value in parentheses is the Method Reporting Limit (MRL).
ND: Not Detected

**Table 3**
**Small Arms Range**
**Pesticides and Polychlorinated Biphenyls (PCBs)**
**Method 8080**
**September, 1994**

| | | QA DUP | QC DUP | | | |
|---|---|---|---|---|---|---|
| LOCATION: | Site # 1 | Site # 1 | Site # 1 | Site # 2 | Site # 3 | Site # 4 |
| DATE OF SAMPLING: | 9/01/94 | 9/01/94 | 9/01/94 | 9/01/94 | 9/01/94 | 9/01/94 |
| TYPE OF SAMPLE: | soil | soil | soil | soil | soil | soil |
| FIELD SAMPLE #:94FWAR- | 10SL | 60SL | 61SL | 11SL | 20SL | 21SL |
| TESTING LABORATORY: | ARDL | CAS | ARDL | ARDL | ARDL | ARDL |
| LABORATORY SAMPLE #: | 9869-4 | K945437-003 | 9869-12 | 9869-5 | 9869-6 | 9869-7 |
| DATE RECEIVED: | 9/03/94 | 9/07/94 | 9/03/94 | 9/03/94 | 9/03/94 | 9/03/94 |
| DATE TESTED: | 9/07/94 | 9/11/94 | 9/08/94 | 9/07/94 | 9/07/94 | 9/07/94 |
| CONCENTRATION UNITS: | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg |
| alpha-BHC | ND (6.9) | ND (10) | ND (6.7) | ND (5.6) | ND (6.5) | ND (5.4) |
| beta-BHC | ND (14) | ND (30) | ND (13) | ND (11) | ND (13) | ND (11) |
| delta-BHC | ND (22) | ND (10) | ND (21) | ND (17) | ND (20) | ND (17) |
| gamma-BHC (Lindane) | ND (9.2) | ND (10) | ND (9.0) | ND (7.4) | ND (8.7) | ND (7.2) |
| Heptachlor | ND (6.9) | ND (10) | ND (6.7) | ND (5.6) | ND (6.5) | ND (5.4) |
| Aldrin | ND (9.2) | ND (10) | ND (9.0) | ND (7.4) | ND (8.7) | ND (7.2) |
| Heptachlor epoxide | ND (180) | ND (10) | ND (180) | ND (150) | ND (170) | ND (150) |
| Endosulfan I | ND (32) | ND (10) | ND (31) | ND (26) | ND (30) | ND (25) |
| Dieldrin | ND (4.6) | ND (10) | ND (4.5) | ND (3.7) | ND (4.3) | ND (3.6) |
| 4,4'-DDE | ND (9.2) | ND (10) | ND (9.0) | ND (7.4) | ND (8.7) | ND (7.2) |
| Endrin | ND (14) | ND (10) | ND (13) | ND (11) | ND (13) | ND (11) |
| Endosulfan II | ND (9.2) | ND (10) | ND (9.0) | ND (7.4) | ND (8.7) | ND (7.2) |
| 4,4'-DDD | ND (26) | ND (10) | ND (25) | ND (21) | ND (25) | ND (20) |
| Endosulfan sulfate | ND (150) | ND (10) | ND (150) | ND (120) | ND (140) | ND (120) |
| 4,4'- DDT | ND (28) | ND (10) | ND (27) | ND (22) | ND (26) | ND (22) |
| Methoxychlor | ND (400) | ND (20) | ND (390) | ND (320) | ND (380) | ND (320) |
| Endrin Ketone | ND (25) | NR | ND (24) | ND (20) | ND (23) | ND (19) |
| Chlordane | ND (32) | ND (100) | ND (31) | ND (26) | ND (30) | ND (25) |
| Toxaphene | ND (500) | ND (300) | ND (540) | ND (440) | ND (520) | ND (430) |
| Endrin aldehyde | ND (52) | ND (10) | ND (51) | ND (42) | ND (49) | ND (41) |
| Aroclor 1016 | ND (120) | ND (100) | ND (120) | ND (99) | ND (120) | ND (96) |
| Aroclor 1221 | ND (120) | ND (100) | ND (120) | ND (99) | ND (120) | ND (96) |
| Aroclor 1232 | ND (120) | ND (100) | ND (120) | ND (99) | ND (120) | ND (96) |
| Aroclor 1242 | ND (120) | ND (100) | ND (120) | ND (99) | ND (120) | ND (96) |
| Aroclor 1248 | ND (120) | ND (100) | ND (120) | ND (99) | ND (120) | ND (96) |
| Aroclor 1254 | ND (250) | ND (100) | ND (240) | ND (200) | ND (230) | ND (190) |
| Aroclor 1260 | ND (250) | ND (100) | ND (240) | ND (200) | ND (230) | ND (190) |

CAS: Columbia Analytical Services, Kelso, WA.
ARDL: Applied Research and Development, Mt. Vernon, IL.
The value in parentheses is the Method Reporting Limit (MRL).
ND: Not Detected
NR: Not Reported

**Table 3**
**Small Arms Range**
**Pesticides and Polychlorinated Biphenyls (PCBs)**
**Method 8080**
**September, 1994**

| LOCATION: | Site # 5 | Site # 6 | Site # 7 | Site # 8 |
|---|---|---|---|---|
| DATE OF SAMPLING: | 9/01/94 | 9/01/94 | 9/01/94 | 9/01/94 |
| TYPE OF SAMPLE: | soil | soil | soil | soil |
| FIELD SAMPLE #:94FWAR- | 30SL | 40SL | 41SL | 42SL |
| TESTING LABORATORY: | ARDL | ARDL | ARDL | ARDL |
| LABORATORY SAMPLE #: | 9869-8 | 9869-9 | 9869-10 | 9869-11 |
| DATE RECEIVED: | 9/03/94 | 9/03/94 | 9/03/94 | 9/03/94 |
| DATE TESTED: | 9/07/94 | 9/07/94 | 9/07/94 | 9/08/94 |
| CONCENTRATION UNITS: | ug/Kg | ug/Kg | ug/Kg | ug/Kg |
| alpha-BHC | ND (5.6) | ND (5.2) | ND (4.7) | ND (5.0) |
| beta-BHC | ND (11) | ND (10) | ND (9.4) | ND (10) |
| delta-BHC | ND (17) | ND (16) | ND (14) | ND (15) |
| gamma-BHC (Lindane) | ND (7.5) | ND (7.0) | ND (6.3) | ND (6.7) |
| Heptachlor | ND (5.6) | ND (5.2) | ND (4.7) | ND (5.0) |
| Aldrin | ND (7.5) | ND (7.0) | ND (6.3) | ND (6.7) |
| Heptachlor epoxide | ND (160) | ND (140) | ND (130) | ND (140) |
| Endosulfan I | ND (26) | ND (24) | ND (22) | ND (23) |
| Dieldrin | ND (3.8) | ND (3.5) | ND (3.1) | ND (3.3) |
| 4,4'-DDE | ND (7.5) | ND (7.0) | ND (6.3) | ND (6.7) |
| Endrin | ND (11) | ND (10) | ND (9.4) | ND (10) |
| Endosulfan II | ND (7.5) | ND (7.0) | ND (6.3) | ND (6.7) |
| 4,4'-DDD | ND (21) | ND (20) | ND (18) | ND (19) |
| Endosulfan sulfate | ND (120) | ND (110) | ND (100) | ND (110) |
| 4,4'- DDT | ND (22) | ND (21) | ND (19) | ND (20) |
| Methoxychlor | ND (330) | ND (310) | ND (270) | ND (290) |
| Endrin Ketone | ND (20) | ND (19) | ND (17) | ND (18) |
| Chlordane | ND (26) | ND (24) | ND (22) | ND (23) |
| Toxaphene | ND (450) | ND (420) | ND (370) | ND (400) |
| Endrin aldehyde | ND (43) | ND (40) | ND (36) | ND (38) |
| Aroclor 1016 | ND (100) | ND (93) | ND (83) | ND (89) |
| Aroclor 1221 | ND (100) | ND (93) | ND (83) | ND (89) |
| Aroclor 1232 | ND (100) | ND (93) | ND (83) | ND (89) |
| Aroclor 1242 | ND (100) | ND (93) | ND (83) | ND (89) |
| Aroclor 1248 | ND (100) | ND (93) | ND (83) | ND (89) |
| Aroclor 1254 | ND (200) | ND (190) | ND (170) | ND (180) |
| Aroclor 1260 | ND (200) | ND (190) | ND (170) | ND (180) |

CAS: Columbia Analytical Services, Kelso, WA.
ARDL: Applied Research and Development, Mt. Vernon, IL.
The value in parentheses is the Method Reporting Limit (MRL).
ND: Not Detected

**Table 3**
**Small Arms Range**
**Pesticides and Polychlorinated Biphenyls (PCBs)**
**Method 8080**
**September, 1994**

| | | QA DUP | QC DUP |
|---|---|---|---|
| LOCATION: | Site # 1 | Site # 1 | Site # 1 |
| DATE OF SAMPLING: | 9/01/94 | 9/01/94 | 9/01/94 |
| TYPE OF SAMPLE: | water | water | water |
| FIELD SAMPLE #:94FWAR- | 10WA | 60WA | 61WA |
| TESTING LABORATORY: | ARDL | CAS | ARDL |
| LABORATORY SAMPLE #: | 9869-1 | K945437-002 | 9869-2 |
| DATE RECEIVED: | 9/03/94 | 9/07/94 | 9/03/94 |
| DATE TESTED: | 9/08/94 | 9/10/94 | 9/08/94 |
| CONCENTRATION UNITS: | ug/L | ug/L | ug/L |
| alpha-BHC | ND (0.03) | ND (0.04) | ND (0.03) |
| beta-BHC | ND (0.06) | ND (0.1) | ND (0.06) |
| delta-BHC | ND (0.09) | ND (0.04) | ND (0.09) |
| gamma-BHC (Lindane) | ND (0.04) | ND (0.04) | ND (0.04) |
| Heptachlor | ND (0.03) | ND (0.04) | ND (0.03) |
| Aldrin | ND (0.04) | ND (0.04) | ND (0.04) |
| Heptachlor epoxide | ND (0.83) | ND (0.04) | ND (0.83) |
| Endosulfan I | ND (0.14) | ND (0.04) | ND (0.14) |
| Dieldrin | ND (0.02) | ND (0.04) | ND (0.02) |
| 4,4'-DDE | ND (0.04) | ND (0.04) | ND (0.04) |
| Endrin | ND (0.06) | ND (0.04) | ND (0.06) |
| Endosulfan II | ND (0.04) | ND (0.04) | ND (0.04) |
| 4,4'-DDD | ND (0.11) | ND (0.04) | ND (0.11) |
| Endosulfan sulfate | ND (0.66) | ND (0.04) | ND (0.66) |
| 4,4'- DDT | ND (0.12) | ND (0.04) | ND (0.12) |
| Methoxychlor | ND (1.8) | ND (0.1) | ND (1.8) |
| Endrin Ketone | ND (0.10) | NR | ND (0.10) |
| Chlordane | ND (0.14) | ND (0.5) | ND (0.14) |
| Toxaphene | ND (2.4) | ND (1) | ND (2.4) |
| Endrin aldehyde | ND (0.23) | ND (0.04) | ND (0.23) |
| Aroclor 1016 | ND (1.0) | ND (0.2) | ND (1.0) |
| Aroclor 1221 | ND (2.0) | ND (0.2) | ND (2.0) |
| Aroclor 1232 | ND (1.0) | ND (0.2) | ND (1.0) |
| Aroclor 1242 | ND (1.0) | ND (0.2) | ND (1.0) |
| Aroclor 1248 | ND (1.0) | ND (0.2) | ND (1.0) |
| Aroclor 1254 | ND (1.0) | ND (0.2) | ND (1.0) |
| Aroclor 1260 | ND (1.0) | ND (0.2) | ND (1.0) |

CAS: Columbia Analytical Services, Kelso, WA.
ARDL: Applied Research and Development, Mt. Vernon, IL.
The value in parentheses is the Method Reporting Limit (MRL).
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NR: Not Reported

**Table 4**
**Small Arms Range**
**Organosulfur Compounds**
**Thiodiglycol**
**Chloroacetic Acid**
**September, 1994**

| | | QA DUP | QC DUP | | | |
|---|---|---|---|---|---|---|
| LOCATION: | Site # 1 | Site # 1 | Site # 1 | Site # 2 | Site # 3 | Site # 4 |
| DATE OF SAMPLING: | 9/01/94 | 9/01/94 | 9/01/94 | 9/01/94 | 9/01/94 | 9/01/94 |
| TYPE OF SAMPLE: | soil | soil | soil | soil | soil | soil |
| FIELD SAMPLE #: 94FWAR- | 10SL | 60SL | 61SL | 11SL | 20SL | 21SL |
| TESTING LABORATORY: | ARDL | MRI | ARDL | ARDL | ARDL | ARDL |
| LABORATORY SAMPLE #: | 9869-4 | K945437-003 | 9869-12 | 9869-5 | 9869-6 | 9869-7 |
| DATE RECEIVED: | 9/03/94 | NR | 9/03/94 | 9/03/94 | 9/03/94 | 9/03/94 |
| DATE TESTED: | 9/08-09/94 | NR | 9/08-12/94 | 9/08-09/94 | 9/08-09/94 | 9/08-12/94 |
| CONCENTRATION UNITS: | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg |
| Dimethyldisulfide | ND (0.020) | NR | ND (0.019) | ND (0.016) | ND (0.019) | ND (0.016) |
| 1,4-Oxathiane | ND (0.042) | ND (0.053) | ND (0.40) | ND (0.033) | ND (0.039) | ND (0.032) |
| 1,4-Dithiane | ND (0.020) | ND (0.025) | ND (0.019) | ND (0.016) | ND (0.019) | ND (0.016) |
| Benzothiazole | ND (0.062) | NR | ND (0.060) | ND (0.049) | ND (0.058) | ND (0.048) |
| p-Chlorophenylmethylsulfide | ND (0.062) | NR | ND (0.060) | ND (0.049) | ND (0.058) | ND (0.048) |
| p-Chlorophenylmethylsulfoxide | ND (0.082) | NR | 0.235 | 0.104 | 0.657 | ND (0.064) |
| p-Chlorophenylmethylsulfone | ND (0.062) | NR | ND (0.060) | ND (0.049) | ND (0.058) | ND (0.048) |
| Thiodiglycol | ND (4.15) | ND (200) | ND (4.03) | ND (3.33) | ND (3.91) | ND (3.25) |
| Chloroacetic Acid | ND (0.257) | ND (2) | ND (0.249) | ND (0.206) | ND (0.242) | ND (0.201) |

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MRI: Midwest Research Institute, Kansas City, MO.
The value in parentheses is the Method Reporting Limit (MRL).
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NR: Not Reported

**Table 4**
**Small Arms Range**
**Organosulfur Compounds**
**Thiodiglycol**
**Chloroacetic Acid**
**September, 1994**

| LOCATION: | Site # 5 | Site # 6 | Site # 7 | Site # 8 |
|---|---|---|---|---|
| DATE OF SAMPLING: | 9/01/94 | 9/01/94 | 9/01/94 | 9/01/94 |
| TYPE OF SAMPLE: | soil | soil | soil | soil |
| FIELD SAMPLE #: 94FWAR- | 30SL | 40SL | 41SL | 42SL |
| TESTING LABORATORY: | ARDL | ARDL | ARDL | ARDL |
| LABORATORY SAMPLE #: | 9869-8 | 9869-9 | 9869-10 | 9869-11 |
| DATE RECEIVED: | 9/03/94 | 9/03/94 | 9/03/94 | 9/03/94 |
| DATE TESTED: | 9/08-12/94 | 9/08-12/94 | 9/08-12/94 | 9/08-12/94 |
| CONCENTRATION UNITS: | mg/Kg | mg/Kg | mg/Kg | mg/Kg |
| Dimethyldisulfide | ND (0.016) | ND (0.015) | ND (0.014) | ND (0.014) |
| 1,4-Oxathiane | ND (0.034) | ND (0.031) | ND (0.028) | ND (0.030) |
| 1,4-Dithiane | ND (0.016) | ND (0.015) | ND (0.014) | ND (0.014) |
| Benzothiazole | ND (0.050) | ND (0.046) | ND (0.042) | ND (0.044) |
| p-Chlorophenylmethylsulfide | ND (0.050) | ND (0.046) | ND (0.042) | ND (0.044) |
| p-Chlorophenylmethylsulfoxide | ND (0.066) | ND (0.062) | ND (0.055) | 0.059 |
| p-Chlorophenylmethylsulfone | ND (0.050) | ND (0.046) | ND (0.042) | ND (0.044) |
| Thiodiglycol | ND (3.38) | ND (3.38) | ND (2.81) | ND (3.00) |
| Chloroacetic Acid | ND (0.209) | ND (0.194) | ND (0.174) | ND (0.186) |

ARDL: Applied Research and Development, Mt. Vernon, IL.
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The value in parentheses is the Method Reporting Limit (MRL).
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NR: Not Reported

**Table 4**
**Small Arms Range**
**Organosulfur Compounds**
**Thiodiglycol**
**Chloroacetic Acid**
**September, 1994**

| | | QA DUP | QC DUP |
|---|---|---|---|
| LOCATION: | Site # 1 | Site # 1 | Site # 1 |
| DATE OF SAMPLING: | 9/01/94 | 9/01/94 | 9/01/94 |
| TYPE OF SAMPLE: | water | water | water |
| FIELD SAMPLE #: 94FWAR- | 10WA | 60WA | 61WA |
| TESTING LABORATORY: | ARDL | MRI | ARDL |
| LABORATORY SAMPLE #: | 9869-1 | K945437-002 | 9869-2 |
| DATE RECEIVED: | 9/03/94 | NR | 9/03/94 |
| DATE TESTED: | 9/07-09/94 | NR | 9/07-09/94 |
| CONCENTRATION UNITS: | ug/L | ug/L | ug/L |
| Dimethyldisulfide | ND (0.500) | NR | ND (0.500) |
| 1,4-Oxathiane | ND (1.00) | ND (2) | ND (1.00) |
| 1,4-Dithiane | ND (0.500) | ND (0.8) | ND (0.500) |
| Benzothiazole | ND (1.50) | NR | ND (1.50) |
| p-Chlorophenylmethylsulfide | ND (1.50) | NR | ND (1.50) |
| p-Chlorophenylmethylsulfoxide | ND (2.00) | NR | ND (2.00) |
| p-Chlorophenylmethylsulfone | ND (1.50) | NR | ND (1.50) |
| Thiodiglycol | ND (4.12) | ND (100) | ND (4.12) |
| Chloroacetic Acid | ND (10) | ND (1) | ND (10) |

ARDL: Applied Research and Development, Mt. Vernon, IL.
MRI: Midwest Research Institute, Kansas City, MO.
The value in parentheses is the Method Reporting Limit (MRL).
ND: Not Detected
NR: Not Reported

**Table 5**
**Small Arms Range**
**Method 8330**
**Explosives**
**September, 1994**

| | | QA DUP | QC DUP | | | |
|---|---|---|---|---|---|---|
| LOCATION: | Site # 1 | Site # 1 | Site # 1 | Site # 2 | Site # 3 | Site # 4 |
| DATE OF SAMPLING: | 9/01/94 | 9/01/94 | 9/01/94 | 9/01/94 | 9/01/94 | 9/01/94 |
| TYPE OF SAMPLE: | soil | soil | soil | soil | soil | soil |
| FIELD SAMPLE #:94FWWP- | 10SL | 60SL | 61SL | 11SL | 20SL | 21SL |
| TESTING LABORATORY: | ARDL | MRI | ARDL | ARDL | ARDL | ARDL |
| LABORATORY SAMPLE #: | 9869-4 | K945437-003 | 9869-12 | 9869-5 | 9869-6 | 9869-7 |
| DATE RECEIVED: | 9/07/94 | 9/07/94 | 9/07/94 | 9/07/94 | 9/07/94 | 9/07/94 |
| DATE TESTED: | 9/12/94 | 9/12/94 | 9/12/94 | 9/12/94 | 9/12/94 | 9/12/94 |
| CONCENTRATION UNITS: | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg | ug/Kg |
| 2,4,6-Trinitrotoluene | ND (500) | ND (200) | ND (500) | ND (500) | ND (500) | ND (500) |
| 2,4-Dinitrotoluene | ND (500) | ND (200) | ND (500) | ND (500) | ND (500) | ND (500) |
| RDX | ND (500) | ND (200) | ND (500) | ND (500) | ND (500) | ND (500) |
| 4-Am-DNT | ND (500) | ND (200) | ND (500) | ND (500) | ND (500) | ND (500) |
| 1,3,5-Trinitrobenzene | ND (500) | ND (200) | ND (500) | ND (500) | ND (500) | ND (500) |
| HMX | ND (500) | ND (200) | ND (500) | ND (500) | ND (500) | ND (500) |
| Tetryl | ND (500) | ND (200) | ND (500) | ND (500) | ND (500) | ND (500) |
| 2,6-Dinitrotoluene | ND (500) | ND (200) | ND (500) | ND (500) | ND (500) | ND (500) |
| 2-Nitrotoluene | ND (500) | ND (200) | ND (500) | ND (500) | ND (500) | ND (500) |
| Nitrobenzene | ND (500) | ND (200) | ND (500) | ND (500) | ND (500) | ND (500) |
| 3-Nitrotoluene | ND (500) | ND (200) | ND (500) | ND (500) | ND (500) | ND (500) |
| 1,3-Dinitrobenzene | ND (500) | ND (200) | ND (500) | ND (500) | ND (500) | ND (500) |
| 4-Nitrotoluene | ND (500) | ND (200) | ND (500) | ND (500) | ND (500) | ND (500) |

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The value in parentheses is the Method Reporting Limit (MRL).
ND: Not Detected

**Table 5**
**Small Arms Range**
**Method 8330**
**Explosives**
**September, 1994**

| LOCATION: | Site # 5 | Site # 6 | Site # 7 | Site # 8 |
|---|---|---|---|---|
| DATE OF SAMPLING: | 9/01/94 | 9/01/94 | 9/01/94 | 9/01/94 |
| TYPE OF SAMPLE: | soil | soil | soil | soil |
| FIELD SAMPLE #: 94FWAR- | 30SL | 40SL | 41SL | 42SL |
| TESTING LABORATORY: | ARDL | ARDL | ARDL | ARDL |
| LABORATORY SAMPLE #: | 9869-8 | 9869-9 | 9869-10 | 9869-11 |
| DATE RECEIVED: | 9/07/94 | 9/07/94 | 9/07/94 | 9/14/94 |
| DATE TESTED: | 9/12/94 | 9/12/94 | 9/12/94 | 9/20/94 |
| CONCENTRATION UNITS: | ug/Kg | ug/Kg | ug/Kg | ug/Kg |
| 2,4,6-Trinitrotoluene | ND (500) | ND (500) | ND (500) | ND (500) |
| 2,4-Dinitrotoluene | ND (500) | ND (500) | ND (500) | ND (500) |
| RDX | ND (500) | ND (500) | ND (500) | ND (500) |
| 4-Am-DNT | ND (500) | ND (500) | ND (500) | ND (500) |
| 1,3,5-Trinitrobenzene | ND (500) | ND (500) | ND (500) | ND (500) |
| HMX | ND (500) | ND (500) | ND (500) | ND (500) |
| Tetryl | ND (500) | ND (500) | ND (500) | ND (500) |
| 2,6-Dinitrotoluene | ND (500) | ND (500) | ND (500) | ND (500) |
| 2-Nitrotoluene | ND (500) | ND (500) | ND (500) | ND (500) |
| Nitrobenzene | ND (500) | ND (500) | ND (500) | ND (500) |
| 3-Nitrotoluene | ND (500) | ND (500) | ND (500) | ND (500) |
| 1,3-Dinitrobenzene | ND (500) | ND (500) | ND (500) | ND (500) |
| 4-Nitrotoluene | ND (500) | ND (500) | ND (500) | ND (500) |

ARDL: Applied Research and Development, Mt. Vernon, IL.
The value in parentheses is the Method Reporting Limit (MRL).
ND: Not Detected

**Table 5**
**Small Arms Range**
**Method 8330**
**Explosives**
**September, 1994**

| | | QA DUP | QC DUP |
|---|---|---|---|
| LOCATION: | Site # 1 | Site # 1 | Site # 1 |
| DATE OF SAMPLING: | 9/01/94 | 9/01/94 | 9/01/94 |
| TYPE OF SAMPLE: | water | water | water |
| FIELD SAMPLE #: 94FWAR- | 10WA | 60WA | 61WA |
| TESTING LABORATORY: | ARDL | MRI | ARDL |
| LABORATORY SAMPLE #: | 9869-1 | K945437-002 | 9869-2 |
| DATE RECEIVED: | 9/07/94 | 9/07/94 | 9/07/94 |
| DATE TESTED: | 9/11/94 | 9/09/94 | 9/11/94 |
| CONCENTRATION UNITS: | ug/L | ug/L | ug/L |
| 2,4,6-Trinitrotoluene | ND (0.500) | ND (0.1) | ND (0.500) |
| 2,4-Dinitrotoluene | ND (0.500) | ND (0.1) | ND (0.500) |
| RDX | ND (0.500) | ND (0.1) | ND (0.500) |
| 4-Am-DNT | ND (0.500) | ND (0.2) | ND (0.500) |
| 1,3,5-Trinitrobenzene | ND (0.500) | ND (0.1) | ND (0.500) |
| HMX | ND (0.500) | ND (0.1) | ND (0.500) |
| Tetryl | ND (0.500) | ND (0.5) | ND (0.500) |
| 2,6-Dinitrotoluene | ND (0.500) | ND (0.1) | ND (0.500) |
| 2-Nitrotoluene | ND (0.500) | ND (0.2) | ND (0.500) |
| Nitrobenzene | ND (0.500) | ND (0.1) | ND (0.500) |
| 3-Nitrotoluene | ND (0.500) | ND (0.2) | ND (0.500) |
| 1,3-Dinitrobenzene | ND (0.500) | ND (0.2) | ND (0.500) |
| 4-Nitrotoluene | ND (0.500) | ND (0.2) | ND (0.500) |

ARDL: Applied Research and Development, Mt. Vernon, IL.
MRI: Midwest Research Institute, Kansas City, MO.
The value in parentheses is the Method Reporting Limit (MRL).
ND: Not Detected

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Fort Wainwright, Alaska

August 16, 1995

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